Alibaba Cloud E-MapReduce

API Reference

Issue: 20190917

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Generic conventions

Table -1: Style conventions

Style	Description	Example
	This warning information indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	Danger: Resetting will result in the loss of user configuration data.
	This warning information indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	Warning: Restarting will cause business interruption. About 10 minutes are required to restore business.
	This indicates warning informatio n, supplementary instructions, and other content that the user must understand.	Notice: Take the necessary precautions to save exported data containing sensitive information.
	This indicates supplemental instructions, best practices, tips, and other content that is good to know for the user.	Note: You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
Bold	It is used for buttons, menus , page names, and other UI elements.	Click OK.
`Courier font`	It is used for commands.	Run the `cd / d C :/ windows` command to enter the Windows system folder.
Italics	It is used for parameters and variables.	`bae log list -- instanceid` *Instance_ID*
[] or [a|b]	It indicates that it is a optional value, and only one item can be selected.	`ipconfig` *[-all|-t]*

Style	Description	Example
{} or {a|b}	It indicates that it is a required value, and only one item can be selected.	`swich` *{stand | slave}*

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2 Description of calls

2.1 Request structure

Endpoint

The API service access address is as follows:

Region	Endpoint
cn-hangzhou: China East 1 (Hangzhou)	emr.aliyuncs.com
cn-beijing: China North 2 (Beijing)	emr.aliyuncs.com
cn-shanghai: China East 2 (Shanghai)	emr.aliyuncs.com
cn-shenzhen: China South 1 (Shenzhen)	emr.aliyuncs.com
ap-southeast-1: Asia Pacific SE 1 (Singapore)	emr.aliyuncs.com
us-west-1: US West 1 (Silicon Valley)	emr.aliyuncs.com
others: other regions	emr.[RegionId].aliyuncs.com

Protocols

We recommend that you send requests using the HTTPS channel for enhanced security.

Request methods

You can send requests using the HTTP GET method. In an HTTP GET request, parameters are included as part of the URL.

Request parameters

Each request must specify the operation to be executed, namely, the action parameter (for example, CreateDatabase), and each operation must contain the common request parameters and the specific request parameters of the specified operation.

Encoding

Both requests and responses use UTF-8 for encoding.

2.2 Sign signatures

Alibaba Cloud performs identity authentication on each access request. Therefore, whether submitted through HTTP or HTTPS, a request must contain signature information.

ECS uses symmetric encryption based on an Access Key ID and Access Key Secret to verify the identity of a request sender. The Access Key ID and Access Key Secret are issued to users by Alibaba Cloud (users can request and manage keys on the website of Alibaba Cloud). The Access Key ID indicates the identity of the user. The Access Key Secret is the secret key used to encrypt the signature string and to verify the signature string on the server. It must be kept strictly confidential and only be known to Alibaba Cloud and authenticated users.

> Notice:
> For more information, see Developer Resources.

Procedure

Follow the instructions below to sign the signatures for your requests.

1. Use request parameters to construct a Canonicalized Query String.

   a. Sort parameters

      Sort all request parameters (including common request parameters and user-defined parameters for the given request interfaces described in this document, excluding the Signature parameter mentioned in "Common request parameters ") alphabetically by the parameter name.

      > Notice:

If you use the GET method to submit requests, these parameters are included in the request URI that is the part after the question mark (?) following the ampersand (&) in the URI .

b. Encode parameters

Encode the name and value of each request parameter. The names and values must undergo URL encoding using the UTF-8 character set. The URL encoding rules are as follows:

- Uppercase letters (A–Z), lowercase letters (a–z), numbers (0–9), hyphens (-), underscores (_), periods (.), and tildes (~) are not encoded.
- Other characters are encoded in "%XY" format, with XY representing the character ASCII code in hexadecimal notation. The double quotation mark (") is coded as %22.
- Extended UTF-8 characters are encoded in “%XY%ZA… “
- An English space is encoded as %20 instead of a plus sign (+).

Notice:
This encoding method is similar to but different from the application/x-www-form-urlencoded MIME encoding algorithm (such as the implementation of the java.net.URLEncoder class provided by the Java standard library). You can use this encoding method directly by replacing the plus sign (+) in the encoded string with "%20", the asterisk (*) with "%2A", and change "%7E" back to the tilde (~) to conform to the encoding rules described above. This algorithm can be implemented using the following percentEncode() method:

```
private static final String ENCODING = " UTF - 8 ";

private static String percentEnc ode ( String value )
throws Unsupporte dEncodingE xception {
return value ! = null ? URLEncoder . encode ( value ,
ENCODING ). replace ("+", "% 20 "). replace ("*", "% 2A ").
replace ("% 7E ", "~") : null ;
}
```

c. Connect the encoded parameter names and values with equal signs (=).

d. Then, sort the parameter name and value pairs connected by equal signs in alphabetical order, and connect them with an ampersand (&) to produce the canonicalized query string.

2. Follow the rules below to use the canonicalized query string to construct the string for signature calculation:

```
StringToSi  gn =
  HTTPMethod  + “&” +
  percentEnc  ode (“/”) + ”&” +
   percentEnc  ode ( Canonicali  zedQuerySt  ring )
```

In this formulation,

- `HTTPMethod` is the HTTP method (such as GET) used for request submission.
- `percentEnc  ode (“/“)` is the encoded value (%2F) for the character “/ “ according to the URL encoding rules described in 1.ii.
- `percentEnc  ode  ( Canonicali  zedQuerySt  ring )` is the encoded string for the canonicalized query string constructed in Step 1 according to the URL encoding rules described in 1.ii.

3. Use the string for signature calculation to calculate the HMAC value of the signature based on RFC2104.

> **Notice:**
> The key used for signature calculation is your secret access key adding the ampersand “&” (ASCII:38) and it is based on the SHA1 hashing algorithm.

4. Encode the HMAC value into a string according to Base64 encoding rules. You can then obtain the signature value.
5. Add the obtained signature value to request parameters as the Signature parameter to complete the request signing process.

> **Notice:**
> The obtained signature value requires URL encoding based on the RFC3986 rule like other parameters before it is submitted to the GPDB server as the final request parameter value.

Examples

Take "DescribeDBInstances" as an example, the request URL before a signature is :

```
http :// ecs . aliyuncs . com /? TimeStamp = 2016 - 02 - 23T12 : 46
: 24Z & Format = XML & AccessKeyI  d = testid & Action = DescribeRe
gions & SignatureM  ethod = HMAC - SHA1 & SignatureN  once = 3ee8c1b8
```

```
- 83d3 - 44af - a94f - 4e0ad82fd6  cf & Version = 2014 - 05 - 26 &
SignatureV  ersion = 1 . 0
```

The corresponding StringToSign is:

```
GET &% 2F & AccessKeyI  d % 3Dtestid & Action % 3DDescribe  Regions
& Format % 3DXML & SignatureM  ethod % 3DHMAC - SHA1 & SignatureN
once % 3D3ee8c1b8 - 83d3 - 44af - a94f - 4e0ad82fd6  cf & SignatureV
ersion % 3D1 . 0 & TimeStamp % 3D2016 - 02 - 23T12 % 253A46 % 253A24Z
& Version % 3D2014 - 05 - 26
```

Assume that the value of the Access Key Secret parameter is testsecret. Then the key used for HMAC calculation is testsecret& and the calculated signature value is `CT9X0VtwR8  6fNWSnsc6v  8YGOjuE`.

The signed request URL is (with the Signature parameter added):

```
http :// ecs . aliyuncs . com /? SignatureV  ersion = 1 . 0 & Action
= DescribeRe  gions & Format = XML & SignatureN  once = 3ee8c1b8
- 83d3 - 44af - a94f - 4e0ad82fd6  cf & Version = 2014 - 05 - 26 &
AccessKeyI  d = testid & Signature = CT9X0VtwR8  6fNWSnsc6v  8YGOjuE
% 3D & SignatureM  ethod = HMAC - SHA1 & TimeStamp = 2016 - 02 -
23T12 % 3A46 % 3A24Z
```

2.3 Common parameters

A common request parameter refers to a request parameter that is used by each API.

Common request parameters

Common request parameters are listed in the following table.

Name	Type	Required	Description
Format	String	No	The format of the return value. Valid values: JSON and XML. Default value : XML.
Version	String	Yes	The version of the API in the date format of YYYY-MM -DD.
AccessKeyId	String	Yes	The Access Key ID that is issued by Alibaba Cloud for user access.

Name	Type	Required	Description
Signature	String	Yes	The signature result string. For more information, see Sign signatures.
SignatureMethod	string	Yes	The signature method. Currently , HMAC-SHA1 is supported.
Timestamp	String	Yes	The request timestamp. The format of the date follows the ISO8601 standard and uses UTC time. Format: YYYY-MM -DDThh:mm:ssZ. For example, 2013 -08-15T12:00:00Z indicates 20:00: 00, Aug 15, 2013, Beijing time.
SignatureVersion	String	Yes	The version of the signature algorithm . The current version is 1.0.
SignatureNonce	String	Yes	The unique random number. This is used to prevent replay attacks. For different requests , you must use different random numbers.

Examples

```
 https :// emr . aliyuncs . com /
?  Format = json
& Version = 2016 - 04 - 08
& Signature = Pc5WB8gokV  n0xfeu % 2FZV % 2BiNM1dgI % 3D
& SignatureM  ethod = HMAC - SHA1
& SignatureN  once = 1521552885  2396
& SignatureV  ersion = 1 . 0
& AccessKeyI  d = key - test
```

```
& OwnerId = 12345678
& Timestamp = 2014 - 10 - 10T12 : 00 : 00Z
```

Common response parameters

All requests, successful or failed, are replied with a unique ID (RequestId).

- Examples

  XML format

```
<?  xml   version =" 1 . 0 "  encoding =" UTF - 8 "? >
<! -- Result   root   node -->
< operation   name + response >
<! ---- returned   request  >
< RequestId > 4C467B38 - 3910 - 447D - 87BC - AC049166F2  16 </
 RequestId >
<! -- Returns   the   result -->
</ operation   name + response >
```

  JSON format:

```
{
" RequestId ": " 4C467B38 - 3910 - 447D - 87BC - AC049166F2  16 ",
/*  Returned   results */
```

2.4 Responses

Sample responses in this topic are formatted for your convenience to view. Line breaks and indentation are not included in actual responses.

Responses adopt the same format. A 2xx HTTP status code indicates that the API call succeeds. A 4xx or 5xx HTTP status code indicates that the API call fails. Formats of a response body include XML and JSON. You can specify the format by passing arguments when sending a request. The default format is XML.

Successful response examples

JSON format

```
{
 " Data ":" true ",
 " RequestId ":" 2670BCFB - 925D - 4C3E - 9994 - 8D12F7A9F5  38 "
}
```

Error response examples

No result is returned when an API call fails. You can locate the cause of failure according to the error codes that the corresponding operation can return and the following common error codes. When an API call fails, the response comes with a 4xx

or 5xx HTTP status code. The message body contains the error code and the error information. The message body also contains the globally unique request ID and the ID of the host that you request access to. If you cannot locate the cause of failure, contact the Alibaba Cloud customer service and provide the host ID and request ID.

JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" project   not   exist ",
 " requestId ":" 11BAFBD8 - 8509 - 4177 - A26D - 407505E737  13 ",
 " successRes  ponse ": false
}
```

Common error codes

See Common error codes.

3 Cluster

3.1 CreateClusterV2

You can call this operation to create an EMR cluster.

Request parameters

Parameter	Type	Required	Example	Description
ClusterType	String	Yes	HADOOP	The type of the cluster.
EmrVer	String	Yes	EMR-3.15.0	The version of EMR.
Name	String	Yes	bi_hadoop	The name of the cluster. The name can be 1 to 64 characters in length and only contain Chinese characters, letters, numbers, hyphens (-), and underscores (_).

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-hangzhou	The region ID. Currently, the China (Hangzhou), China (Shanghai), China (Shenzhen), China (Beijing), China (Zhangjiakou-Beijing Winter Olympics), US (Silicon Valley), Singapore, and Germany (Frankfurt) regions are supported.
ZoneId	String	Yes	cn-hangzhou-e	The zone ID. For the China (Hangzhou) region, the cn-hangzhou-b zone is supported. For the China (Beijing) region, the cn-beijing-a, cn-beijing-b, and cn-beijing-c zones are supported.
AccessKeyId	String	Yes	LTAI8ljWyu7y****	The Accesskey ID.
AuthorizeContent	String	No	0	Not required.

Parameter	Type	Required	Example	Description
AutoRenew	Boolean	No	false	Indicates whether the subscription cluster is auto-renewed.
BootstrapAction.N.Arg	String	No	--a=b	The argument that you pass into the bootstrap action.
BootstrapAction.N.Name	String	No	name	The name of the bootstrap action.
BootstrapAction.N.Path	String	No	oss://bucket/path	The path where the bootstrap action script is stored.
Config.N.ConfigKey	String	No	fs.trash.interval	The key of the custom configuration item.
Config.N.ConfigValue	String	No	60	The value of the custom configuration item.
Config.N.Encrypt	String	No	0	A reserved parameter.
Config.N.FileName	String	No	yarn-site	The name of the file that contains the configuration item.
Config.N.Replace	String	No	0	A reserved parameter.

Parameter	Type	Required	Example	Description
Config.N.ServiceName	String	No	YARN	The name (capitalized) of the service that is configured by using the custom configuration item.
DepositType	String	No	HALF_MANAGED	The hosting type.
EasEnable	Boolean	No	false	Indicates whether the cluster is a high-security cluster.
HighAvailabilityEnable	Boolean	No	false	Indicates whether the cluster is a high-availability cluster. A value of true indicates that two master nodes are required.
HostGroup.N.AutoRenew	Boolean	No	false	Indicates whether the instance group is auto-renewed.
HostGroup.N.ChargeType	String	Yes	PostPaid	The billing method for the instance group.
HostGroup.N.ClusterId	String	No	0	A reserved parameter. Not required.
HostGroup.N.Comment	String	No	0	A reserved parameter. Not required.

Parameter	Type	Required	Example	Description
HostGroup.N.CreateType	String	No	0	A reserved parameter. Not required.
HostGroup.N.DiskCapacity	Integer	Yes	80	The data disk capacity of the instance group.
HostGroup.N.DiskCount	Integer	Yes	4	The data disk number of the instance group.
HostGroup.N.DiskType	String	Yes	CLOUD_SSD	The data disk type of the instance group.
HostGroup.N.GpuDriver	String	No	cuda9	The GPU driver.
HostGroup.N.HostGroupId	String	No	0	A reserved parameter.
HostGroup.N.HostGroupName	String	Yes	Master Instance Group	The name of the instance group.
HostGroup.N.HostGroupType	String	Yes	MASTER	The type of the instance group. Valid values: MASTER, CORE, and TASK. Currently, you can only create a maximum of one master instance group and core instance group.
HostGroup.N.InstanceType	String	Yes	ecs.mn4.2xlarge	The instance type of the instance group.
HostGroup.N.NodeCount	Integer	Yes	1	The number of nodes in the node group.

Parameter	Type	Required	Example	Description
HostGroup.N.Period	Integer	No	1	The length of the subscription. Unit: months. Valid values: 1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 24, and 36. A value is required when HostGroup.n.ChargeType=PrePaid.
HostGroup.N.SysDiskCapacity	Integer	Yes	80	The system disk capacity of the instance group.
HostGroup.N.SysDiskType	String	Yes	CLOUD_SSD	The system disk type of the instance group.
HostGroup.N.VSwitchId	String	No	vsw-bp10tvjyc77psy0z5****	The ID of the VSwitch. A value is required when NetType=vpc.
InitCustomHiveMetaDB	Boolean	No	false	A reserved parameter. Not required.
InstanceGeneration	String	No	ecs-3	The generation of the ECS instances.
IoOptimized	Boolean	No	true	Indicates wether I/O optimization is enabled. Default value: true.

Parameter	Type	Required	Example	Description
IsOpenPublicIp	Boolean	No	true	Indicates whether a public IP address is assigned. A value of true indicates that a bandwidth of 8 MB is set by default.
KeyPairName	String	No	test_pair	The name of the key pair.
LogPath	String	No	oss//bucketname/path	The log path in OSS.
MachineType	String	No	ECS	The type of the machine.
OptionSoftWareList.N	RepeatList	No	["ZOOKEEPER","LIVY"]	The list of optional services.

Parameter	Type	Required	Example	Description
SecurityGroupId	String	No	sg-bp1id7ajv83kmqwq****	The ID of the security group. You can create a security group in the ECS console and use it. Note: If you use an existing security group, the default security group policy is applied to this security group: Only port 22 is open at the inbound and all ports are open at the outbound. You need to specify either SecurityGroupId or SecurityGroupName.

Parameter	Type	Required	Example	Description
SecurityGroupName	String	No	emr-sg	The name of the security group to create. If the ID of the security group is not specified, this name is used to create a new security group. After the cluster is created, you can view the ID of the security group on the Cluster Management page. The default security group policy is applied to this security group: Only port 22 is open at the inbound and all ports are open at the outbound. You need to specify either SecurityGroupId or SecurityGroupName.
SshEnable	Boolean	No	false	Indicates whether SSH is enabled.
UseCustomHiveMetaDB	Boolean	No	false	A reserved parameter. Not required.

Parameter	Type	Required	Example	Description
UseLocalMetaDb	Boolean	No	true	Indicates whether the local Hive metadatabase is used.
UserDefinedEmrEcsRole	String	No	AliyunEmrEcsDefaultRole	The role that is assigned to EMR for calling ECS resources.
UserInfo.N.Password	String	No	pwd	The password of the cluster.
UserInfo.N.UserId	String	No	12345	The ID of the Alibaba Cloud account for Knox.
UserInfo.N.UserName	String	No	tom	The username for Knox.

Parameter	Type	Required	Example	Description
MasterPwd	String	No	pwd	The SSH password for the master node. The password must meet the following requirements. Length constraints: Minimum length of 8 characters. Maximum length of 30 characters. It must contain three types of characters (uppercase letters, lowercase letters, numbers, and special symbols).
ChargeType	String	Yes	PostPaid	The billing method. Valid values: PostPaid and PrePaid. PostPaid: pay-as-you-go. PrePaid: subscription.

Parameter	Type	Required	Example	Description
Period	Integer	No	1	The length of the subscription. Unit: months. Valid values: 1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 24, and 36. A value is required when ChargeType=PrePaid.
RelatedClusterId	String	No	C-D7958B72E59B****	The ID of the primary cluster (when the cluster that you create is a Gateway cluster).
Configurations	String	No	0	Not required.
VpcId	String	No	vpc-bp1l4urd87xlh7i4b****	The ID of the VPC. A value is required when NetType=vpc.
VSwitchId	String	No	vsw-bp10tvjyc77psy0z5****	The ID of the Vswitch. A value is required when NetType=vpc.
WhiteListType	String	No	""	Not required.
NetType	String	Yes	vpc	The type of the network.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BF4FBAC6-B03E-4BFB-B6DB-EB53C34F2E22	The ID of the request.

Parameter	Type	Example	Description
ClusterId	String	C-D7958B72E5 9BAB88	The ID of the cluster.

Examples

- **Sample requests**

```
/?  ClusterTyp  e = HADOOP
& EmrVer = EMR - 3 . 15 . 0
& Name = bi_hadoop
& RegionId = cn - hangzhou
& AccessKeyI  d = LTAI8ljWyu  7y ****
& AutoRenew = false
& ChargeType = PostPaid
& DepositTyp  e = HALF_MANAG  ED
& HighAvaila  bilityEnab  le = true
& InstanceGe  neration = ecs - 3
& IoOptimize  d = true
& IsOpenPubl  icIp = true
& KeyPairNam  e =
& LogPath = oss // bucketname / path
& MachineTyp  e = ECS
& MasterPwd = pwd
& NetType = vpc
& OptionSoft  WareList .  1 =[" ZOOKEEPER "," LIVY "]
& Period = 30
& SecurityGr  oupId = sg - bp1id7ajv8  3kmqwq ****
& SecurityGr  oupName = emr - sg
& SshEnable =
& UseLocalMe  taDb =
& UserDefine  dEmrEcsRol  e = AliyunEmrE  csDefaultR  ole
& VpcId = vpc - bp1l4urd87  xlh7i4b ****
& VSwitchId = vsw - bp10tvjyc7  7psy0z5 ****
& ZoneId = cn - hangzhou - e
& BootstrapA  ction .  1 . Arg =-- a = b
& BootstrapA  ction .  1 . 1ame = name
& BootstrapA  ction .  1 . Path = oss :// bucket / path
& Config .  1 . ConfigKey =
& Config .  1 . ConfigValu  e =
& Config .  1 . Encrypt =
& Config .  1 . FileName =
& Config .  1 . Replace =
& Config .  1 . ServiceNam  e =
& HostGroup .  1 . AutoRenew = false
& HostGroup .  1 . ChargeType = PostPaid
& HostGroup .  1 . ClusterId =
& HostGroup .  1 . Comment =
& HostGroup .  1 . CreateType =
& HostGroup .  1 . DiskCapaci  ty = 80
& HostGroup .  1 . DiskCount = 4
& HostGroup .  1 . DiskType = CLOUD_SSD
& HostGroup .  1 . GpuDriver =
& HostGroup .  1 . HostGroupI  d =
& HostGroup .  1 . HostGroupN  ame = Master   Instance   Group
& HostGroup .  1 . HostGroupT  ype = MASTER
& HostGroup .  1 . InstanceTy  pe = ecs . mn4 . 2xlarge
& HostGroup .  1 . 1odeCount = 1
& HostGroup .  1 . Period = 30
& HostGroup .  1 . SysDiskCap  acity = 80
```

```
& HostGroup .  1 . SysDiskTyp  e = CLOUD_SSD
& HostGroup .  1 . VSwitchId = vsw - bp10tvjyc7  7psy0z5 ****
& UserInfo .  1 . Password = pwd
& UserInfo .  1 . UserId = 12345
& UserInfo .  1 . UserName =
& AuthorizeC  ontent =
& Configurat  ions =
& EasEnable = false
& InitCustom  HiveMetaDB =
& RelatedClu  sterId =
& UseCustomH  iveMetaDB =
& WhiteListT  ype =
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
 " ClusterId ":" C - 4DE6DA872B  0E0D58 ",
 " RequestId ":" F4DE89FB - 7054 - 475C - B7E2 - B9A38152DA  7E "
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

3.2 CreateClusterTemplate

You can call this operation to create a cluster template.

Parameter	Type	Required	Example	Description
ClusterType	String	Yes	HADOOP	The type of the cluster.

Parameter	Type	Required	Example	Description
Configurations	String	No	[{"classification": "core-site","properties": {"fs.trash.interval": "61"}},{"classification": "hadoop-log4j","properties": {"hadoop.log.file": "hadoop1.log","hadoop.root.logger": "INFO","a.b.c": "ABC"}}]	Custom software configuration. Before a cluster starts, you can specify a JSON file and modify software configuration.
TemplateName	String	Yes	templateName2	The name of the template.
EasEnable	Boolean	No	true	Indicates whether the cluster is high-security.
HighAvailabilityEnable	Boolean	No	true	Indicates whether the cluster is high-availability.
InitCustomHiveMetaDb	Boolean	No	true	A value of true indicates that the value of the init.meta.db configuration item in the hive-site file is set to true.
InstanceGeneration	String	No	ecs-3	The generation of the ECS instances.

Parameter	Type	Required	Example	Description
AutoRenew	Boolean	No	false	Indicates whether the Subscription cluster is auto-renewed.
IoOptimized	Boolean	No	true	Indicates whether I/O optimization is enabled.
IsOpenPublicIp	Boolean	No	true	Indicates whether the public IP address is assigned.
LogPath	String	No	oss://bucket/path	The log path in OSS.
MachineType	String	No	ECS	Not required. Valid value: ECS.
MasterPwd	String	No	pwd	The password for the master instance.
NetType	String	No	vpc	The network type.
OptionSoftWareList.N	RepeatList	No	["HBASE","FLINK"]	The list of optional services.
Period	Integer	No	36	The length of the subscription.
SecurityGroupId	String	No	sg-bp1id7ajv83kmqwq****	The ID of the security group.
SecurityGroupName	String	No	sg-name	The name of the security group to create.

Parameter	Type	Required	Example	Description
SshEnable	Boolean	No	true	Indicates whether SSH is enabled for the instances in the cluster.
UseCustomHiveMetaDb	Boolean	No	false	Indicates whether unified Hive metadata is used.
UseLocalMetaDb	Boolean	No	false	Indicates whether local Hive metadatabase is used.
UserDefinedEmrEcsRole	String	No	AliyunEmrEcsDefaultRole	The name of the role used to call ECS resources.
VpcId	String	No	vpc-bp1l4urd87xlh7i4b****	The ID of the VPC.
VSwitchId	String	No	vsw-bp10tvjyc77psy0z5****	The ID of the VSwitch.
ZoneId	String	Yes	cn-hangzhou-b	The zone ID.
BootstrapAction.N.Arg	String	No	--a	The argument that you pass into the bootstrap action.
BootstrapAction.N.Name	String	No	action_name	The name of the bootstrap action.
BootstrapAction.N.Path	String	No	oss://bucket/path	The path where the bootstrap action script is stored.

Parameter	Type	Required	Example	Description
Config.N.ConfigKey	String	No	fs.trash.interval	The key of the custom configuration item.
Config.N.ConfigValue	String	No	60	The value of the custom configuration item.
Config.N.Encrypt	String	No	0	A reserved parameter. Not required.
Config.N.FileName	String	No	yarn-site	The name of the file that contains the configuration item.
Config.N.Replace	String	No	0	A reserved parameter. Not required.
Config.N.ServiceName	String	No	YARN	The name (capitalized) of the service that is configured by using the custom configuration item.
HostGroup.N.AutoRenew	Boolean	No	false	Indicates whether the cluster is auto-scaled.
HostGroup.N.ChargeType	String	Yes	PostPaid	The billing method for the node group.
HostGroup.N.ClusterId	String	No	0	Not required.
HostGroup.N.Comment	String	No	header	The comment on the node group.

Parameter	Type	Required	Example	Description
HostGroup.N.CreateType	String	No	ON-DEMAND	The creation type of the node group.
HostGroup.N.DiskCapacity	Integer	Yes	80	The data disk capacity of the node group.
HostGroup.N.DiskCount	Integer	Yes	1	The data disk number of the node group.
HostGroup.N.DiskType	String	Yes	CLOUD_EFFICIENCY	The data disk type of the node group.
HostGroup.N.HostGroupId	String	No	0	Not required.
HostGroup.N.HostGroupName	String	Yes	Master Instance Group	The name of the node group.
HostGroup.N.HostGroupType	String	Yes	MASTER	The type of the node group.
HostGroup.N.InstanceType	String	Yes	ecs.g5.xlarge	The instance type of the node group.
HostGroup.N.MultiInstanceTypes	String	No	ecs.sn1.xlarge, ecs.sn2.xlarge	The instance types of the node group, separated with commas (,).
HostGroup.N.NodeCount	Integer	No	2	The node number in the node group.

Parameter	Type	Required	Example	Description
HostGroup.N.Period	Integer	No	30	The length of the subscription. Unit: days. A value is required when HostGroup.n.ChargeType=PrePaid.
HostGroup.N.SysDiskCapacity	Integer	Yes	80	The system disk capacity of the node group.
HostGroup.N.SysDiskType	String	Yes	CLOUD_SSD	The system disk type of the node group.
HostGroup.N.VSwitchId	String	No	vsw-bp10tvjyc77psy0z5****	The ID of the VSwitch.
EmrVer	String	Yes	EMR-3.15.0	The version of EMR.
RegionId	String	Yes	cn-hangzhou	The region ID.
AccessKeyId	String	Yes	LTAI8ljWyu7y****	The AccessKey ID.
AutoRenew	Boolean	No	false	Indicates whether the cluster is auto-renewed.
DepositType	String	No	HALF_MANAGED	The hosting type of the cluster.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BF4FBAC6-B03E-4BFB-B6DB-EB53C34F2E22	The ID of the request.
ClusterTemplateId	String	CT-35498C56B3F12002	The ID of the cluster template.

Examples

- **Sample requests**

```
/?  ClusterTyp  e = HADOOP
& EmrVer = EMR - 3 . 15 . 0
& RegionId = cn - hangzhou
& TemplateNa  me = templateNa  me2
& AccessKeyI  d = LTAI8ljWyu  7y ****
& AutoRenew = false
& Configurat  ions =[{" classifica  tion ": " core - site "," 
 properties ": {" fs . trash . interval ": " 61 "}},{" classifica 
 tion ": " hadoop - log4j "," properties ": {" hadoop . log . file 
 ": " hadoop1 . log "," hadoop . root . logger ": " INFO "," a . b . 
 c ": " ABC "}}]
& DepositTyp  e = HALF_MANAG  ED
& EasEnable = true
& HighAvaila  bilityEnab  le = true
& InitCustom  HiveMetaDb = 
& InstanceGe  neration = 
& IoOptimize  d = true
& IsOpenPubl  icIp = true
& LogPath = oss :// bucket / path
& MachineTyp  e = 
& MasterPwd = pwd
& NetType = vpc
& OptionSoft  WareList .  1 =[" HBASE "," FLINK "]
& Period = 36
& SecurityGr  oupId = sg - bp1id7ajv8  3kmqwq ****
& SecurityGr  oupName = sg - name
& SshEnable = true
& UseCustomH  iveMetaDb = false
& UseLocalMe  taDb = false
& UserDefine  dEmrEcsRol  e = AliyunEmrE  csDefaultR  ole
& VpcId = vpc - bp1l4urd87  xlh7i4b ****
& VSwitchId = vsw - bp10tvjyc7  7psy0z5 ****
& ZoneId = cn - hangzhou - b
& BootstrapA  ction .  1 . Arg = 
& BootstrapA  ction .  1 . 1ame = 
& BootstrapA  ction .  1 . Path = 
& Config .  1 . ConfigKey = 
& Config .  1 . ConfigValu  e = 
& Config .  1 . Encrypt = 
& Config .  1 . FileName = 
& Config .  1 . Replace = 
& Config .  1 . ServiceNam  e = 
& HostGroup .  1 . AutoRenew = false
& HostGroup .  1 . ChargeType = PostPaid
& HostGroup .  1 . ClusterId = 
& HostGroup .  1 . Comment = 
& HostGroup .  1 . CreateType = 
& HostGroup .  1 . DiskCapaci  ty = 80
& HostGroup .  1 . DiskCount = 1
& HostGroup .  1 . DiskType = CLOUD_EFFI  CIENCY
& HostGroup .  1 . HostGroupI  d = 
& HostGroup .  1 . HostGroupN  ame = Master   Instance   Group
& HostGroup .  1 . HostGroupT  ype = MASTER
& HostGroup .  1 . InstanceTy  pe = ecs . g5 . xlarge
& HostGroup .  1 . MultiInsta  nceTypes = 
& HostGroup .  1 . 1odeCount = 2
& HostGroup .  1 . Period = 30
& HostGroup .  1 . SysDiskCap  acity = 80
& HostGroup .  1 . SysDiskTyp  e = CLOUD_SSD
```

```
& HostGroup .  1 . VSwitchId = vsw - bp10tvjyc7  7psy0z5h0n  i
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " code ":" 200 ",
 " data ":{
  " ClusterTem  plateId ":" CT - 35498C56B3  F12002 ",
  " RequestId ":" 8CA40D40 - 2092 - 4A09 - 9F07 - 2F9C1399FB  11 "
 },
 " requestId ":" 8CA40D40 - 2092 - 4A09 - 9F07 - 2F9C1399FB  11 ",
 " successRes  ponse ": true
}
```

- Error response examples

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

3.3 CreateClusterWithTemplate

You can call this operation to create a cluster by using a cluster template.

Request parameters

Parameter	Type	Required	Example	Description
TemplateBizId	String	Yes	CT-35498C56B3F12002	The ID of the template.
AccessKeyId	String	Yes	LTAI8ljWyu7y****	The AccessKey ID.
UniqueTag	String	No	60a632f0-5909-430d-b65c-1b0f248e4947	The user-defined unique tag.

Response parameters

Type	Example	Description
String	BF4FBAC6-B03E-4BFB-B6DB-EB53C34F2E22	The ID of the request.
String	C-D7958B72E59BAB88	The ID of the cluster.

Examples

- **Sample requests**

```
/?  TemplateBi  zId = CT - 35498C56B3  F12002
& AccessKeyI  d = LTAI8ljWyu  7y ****
& UniqueTag = 60a632f0 - 5909 - 430d - b65c - 1b0f248e49  47
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
 " ClusterId ":" C - 956FA90598  865F02 ",
 " RequestId ":" BF4FBAC6 - B03E - 4BFB - B6DB - EB53C34F2E  22 "
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

3.4 DeleteClusterTemplate

You can call this operation to delete a cluster template.

Request parameters

Parameter	Type	Required	Example	Description
BizId	String	Yes	CT-35498C56B3F12002	The ID of the cluster template.
RegionId	String	Yes	cn-hangzhou	The region ID.
AccessKeyId	String	Yes	LTAI8ljWyu7y****	The AccessKey ID.

Response parameters

Parameter	Type	Example	Description
RequestId	String	F2BF8586-045D-4104-B00C-44A4AA619C05	The request ID.

Examples

- Sample requests

```
/?  BizId = CT - 35498C56B3  F12002
& RegionId = cn - hangzhou
& AccessKeyI  d = LTAI8ljWyu  7y ****
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " requestId ":" F2BF8586 - 045D - 4104 - B00C - 44A4AA619C  05 "
}
```

- Error response examples

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
```

```
}
```

Error codes

View error codes.

3.5 DescribeClusterTemplate

You can call this operation to view the details of a cluster template.

Request parameters

Parameter	Type	Required	Example	Description
BizId	String	Yes	CT-35498C56B3F12002	The ID of the cluster template.
AccessKeyId	String	Yes	LTAI8ljWyu7y****	The AccessKey ID.

Response parameters

Parameter	Type	Example	Description
RequestId	String	F2BF8586-045D-4104-B00C-44A4AA619C05	The ID of the request.
TemplateInfo			The details of the cluster template.
Id	String	CT-4A6799A79D73385B	The ID of the cluster template.
TemplateName	String	template_name_2	The name of the cluster template.
EmrVer	String	EMR-3.16.0	The EMR version.
LogEnable	Boolean	true	Indicates whether OSS logging is enabled.
LogPath	String	oss//bucketname/path	The log path in OSS.
UserId	String	125046002175****	The ID of the user that creates the cluster template.

Parameter	Type	Example	Description
UserDefinedEmrEcsRole	String	AliyunEmrEcsDefaultRole	The role that is assigned to EMR for calling ECS resources.
MasterNodeTotal	Integer	1	The number of master nodes.
VpcId	String	vpc-bp1l4urd87xlh7i4bju4h	The ID of the VPC.
VSwitchId	String	vsw-bp10tvjyc77psy0z5h0ni	The ID of the VSwitch.
NetType	String	vpc	The type of the network.
IoOptimized	Boolean	true	Indicates whether I/O optimization is enabled.
InstanceGeneration	String	ecs-3	The generation of ECS instances.
HighAvailabilityEnable	Boolean	true	Indicates whether the cluster is a high-availability cluster.
EasEnable	Boolean	true	Indicates whether the cluster is a high-security cluster.
GmtCreate	Long	1543765033000	The creation time.
GmtModified	Long	1543765033000	The modification time.
ZoneId	String	cn-hangzhou-b	The zone ID.
ClusterType	String	HADOOP	The type of the cluster.
SecurityGroupId	String	sg-bp1id7ajv83kmqwq2isx	The ID of the security group.
SecurityGroupName	String	emr_sg	The name of the security group to be created.

Parameter	Type	Example	Description
Configurations	String	[{"classification": "core-site"," properties": {"fs.trash.interval": "61"}},{"classification": "hadoop-log4j","properties": {"hadoop.log.file": "hadoop1.log"," hadoop.root.logger": "INFO","a.b.c": "ABC"}}]	The custom software configurations. Before a cluster starts, you can specify a JSON file and modify software configuration.
AllowNotebook	Boolean	false	Indicates whether Notebook is allowed.
CreateSource	String	2	The method used to create the cluster template.
UseLocalMetaDb	Boolean	true	Indicates whether the local Hive metadatabase is used.
SshEnable	Boolean	true	Indicates whether SSH is enabled.
IsOpenPublicIp	Boolean	true	Indicates whether the public IP address is assigned.
DepositType	String	FULL_MANAGED	The hosting type.
MachineType	String	ECS	The machine type.
UseCustomHiveMetaDb	Boolean	false	A reserved parameter.
InitCustomHiveMetaDb	Boolean	true	A reserved parameter.
BootstrapActionList			The list of bootstrap actions.
Name	String	action_name	The name of the action.

Parameter	Type	Example	Description
Path	String	oss://bucket/path	The path where the bootstrap action script is stored.
Arg	String	--a	The argument that you pass into the bootstrap action.
HostGroupList			The list of node groups.
HostGroupId	String	0	A reserved parameter.
HostGroupName	String	Master instance group	The name of the node group.
HostGroupType	String	MASTER	The type of the node group.
ChargeType	String	PostPaid	The billing method.
Period	String	36	The length of the subscription. Unit: days.
NodeCount	Integer	2	The number of nodes in the node group.
InstanceType	String	ecs.mn4.2xlarge	The instance type of the node group.
DiskType	String	CLOUD_SSD	The data disk type of the node group.
DiskCapacity	Integer	80	The data disk capacity of the node group.
DiskCount	Integer	4	The data disk number of the node group.
SysDiskType	String	CLOUD_SSD	The system disk type of the node group.
SysDiskCapacity	Integer	40	The system disk capacity of the node group.

Parameter	Type	Example	Description
MultiInstanceTypes	String	ecs.sn1.xlarge,ecs.sn2.xlarge	The instance types , separated with commas (,).
ConfigList			The list of custom configuration items .
ServiceName	String	YARN	The name (capitalized) of the service that is configured by using the custom configuration item.
FileName	String	yarn-site	The name of the file that contains the custom configuration item.
ConfigKey	String	fs.trash.interval	The key of the custom configuration item.
ConfigValue	String	60	The value of the custom configuration item.
Encrypt	String	0	A reserved parameter.
Replace	String	0	A reserved parameter.
SoftwareInfoList	String	["ZOOKEEPER"]	The optional services.

Examples

- Sample requests

```
/?  BizId = CT - 4A6799A79D  73385B
& AccessKeyI  d = LTAI8ljWyu  7y ****
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
```

```
" requestId ":" 29A1D3B7 - 661C - 4FCD - 8577 - DE93C8F6CA  55 ",
" templateIn  fo ":{
 " bootstrapA  ctionList ":[],
 " clusterTyp  e ":" HADOOP ",
 " configList ":[],
 " createSour  ce ":" 2 ",
 " depositTyp  e ":" HALF_MANAG  ED ",
 " easEnable ": false ,
 " emrVer ":" EMR - 3 . 16 . 0 ",
 " gmtCreate ": 1543765033  000 ,
 " gmtModifie  d ": 1543765033  000 ,
 " highAvaila  bilityEnab  le ": false ,
 " hostGroupL  ist ":[
  {
   " chargeType ":" PostPaid ",
   " diskCapaci  ty ": 80 ,
   " diskCount ": 1 ,
   " diskType ":" CLOUD_EFFI  CIENCY ",
   " hostGroupI  d ":"",
   " hostGroupN  ame ":" Master   instance   group ",
   " hostGroupT  ype ":" MASTER ",
   " instanceTy  pe ":" ecs . n4 . xlarge ",
   " nodeCount ": 1
  },
  {
   " chargeType ":" PostPaid ",
   " diskCapaci  ty ": 80 ,
   " diskCount ": 4 ,
   " diskType ":" CLOUD_EFFI  CIENCY ",
   " hostGroupI  d ":"",
   " hostGroupN  ame ":" Core   instance   group ",
   " hostGroupT  ype ":" CORE ",
   " instanceTy  pe ":" ecs . n4 . xlarge ",
   " nodeCount ": 2
  }
 ],
 " id ":" CT - 35498C56B3  F12002 ",
 " ioOptimize  d ": true ,
 " isOpenPubl  icIp ": true ,
 " logEnable ": false ,
 " machineTyp  e ":" ECS ",
 " masterNode  Total ": 0 ,
 " netType ":" vpc ",
 " securityGr  oupId ":" sg - bp1id7ajv8  3kmqwq2isx ",
 " securityGr  oupName ":" emxxx ",
 " softwareIn  foList ":[
  " FLUME ",
  " FLINK "
 ],
 " sshEnable ": false ,
 " templateNa  me ":" template_n  ame_2 ",
 " useLocalMe  taDb ": true ,
 " userDefine  dEmrEcsRol  e ":" AliyunEmrE  csDefaultR  ole ",
 " userId ": 1250460021  75 ****,
 " vSwitchId ":" vsw - bp10tvjyc7  7psy0z5h0n  i ",
 " vpcId ":" vpc - bp1l4urd87  xlh7i4bju4  h ",
 " zoneId ":" cn - hangzhou - b "
}
```

```
}
```

- Error response examples

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

3.6 DescribeClusterV2

You can call this operation to view the basic information of a cluster, including the billing methods, ECS instance overview, and E-MapReduce service list.

Request parameters

Parameter	Type	Required	Example	Description
Id	String	Yes	C-E331B8AC12BF5DB4	The ID of the cluster.
RegionId	String	Yes	cn-hangzhou	The region ID.
AccessKeyId	String	Yes	LTAI8ljWyu7y****	The AccessKey ID.

Response parameters

Parameter	Type	Example	Description
RequestId	String	14E9C045-9B8D-4D1E-8D23-FC0027B6D947	The ID of the request.
ClusterInfo			The details of the cluster.
Id	String	C-E331B8AC12BF5DB4	The ID of the cluster.
RegionId	String	cn-hangzhou	The region ID.
ZoneId	String	cn-hangzhou-b	The zone ID.

Parameter	Type	Example	Description
Name	String	cluster_name	The name of the cluster.
RelateClusterId	String	C-D7958B72E59BAB88	The ID of the cluster associated by the Gateway.
GatewayClusterIds	String	C-D7958B72E59BAB88	The IDs of the Gateway clusters.
CreateType	String	MANUAL	The creation method for the cluster.
StartTime	Long	1543804234000	The start time of the cluster (timestamp).
ExpiredTime	Long	1544076205000	The expiration time of the subscription cluster.
StopTime	Long	1543804234000	The stop time of the cluster.
LogEnable	Boolean	true	Indicates whether OSS logging is enabled.
LogPath	String	oss://bucketname/path	The log path in OSS.
UserId	String	125046002175****	The ID of the user.
Status	String	IDLE	The status of the cluster.
HighAvailabilityEnable	Boolean	true	Indicates whether the cluster is a high-availability cluster.
LocalMetaDb	Boolean	true	Indicates whether the local Hive metadatabase is used.
ChargeType	String	PostPaid	The billing method.
DepositType	String	HALF_MANAGED	The hosting type of the cluster.

Parameter	Type	Example	Description
Period	Integer	36	The length of the subscription. Unit: days.
RunningTime	Integer	1102	The runtime. Unit: seconds.
MasterNodeTotal	Integer	2	The number of master nodes.
MasterNode InService	Integer	2	The number of master nodes that are in use.
CoreNodeTotal	Integer	3	The number of core nodes.
CoreNodeInService	Integer	3	The number of core nodes that are in use.
TaskNodeTotal	Integer	2	The number of tasks nodes.
TaskNodeInService	Integer	2	The number of tasks nodes that are in use.
ShowSoftwa reInterface	Boolean	true	Indicates whether the quick link page is displayed.
CreateResource	String	ECM_EMR	The label of the cluster.
VpcId	String	vpc-bp1l4urd87 xlh7i4bju4h	The ID of the VPC.
VSwitchId	String	vsw-bp11qjbygg il4pow064fg	The ID of the VSwitch.
NetType	String	vpc	The network type of the cluster.
UserDefine dEmrEcsRole	String	AliyunEmrE csDefaultRole	The name of the EMR role.
IoOptimized	Boolean	true	Indicates whether I/O optimization is enabled.

Parameter	Type	Example	Description
InstanceGeneration	String	ecs-3	The generation of ECS instances.
ImageId	String	m-bp118knl07yk88y8s6cj	The ID of the image used to create the cluster.
SecurityGroupId	String	sg-bp1bvompzxgx7q0lg7oy	The ID of the security group.
SecurityGroupName	String	emr-default-securitygroup	The name of the security group.
BootstrapFailed	Boolean	false	Indicates whether the bootstrap action fails.
Configurations	String	[]	Not required.
EasEnable	Boolean	true	Indicates whether the cluster is a high-security cluster.
AutoScalingEnable	Boolean	false	Indicates whether auto-scaling is enabled.
AutoScalingAllowed	Boolean	false	Indicates whether auto-scaling is allowed.
AutoScalingSpotWithLimitAllowed	Boolean	false	Indicates whether using auto-scaling spot instances is allowed.
ResizeDiskEnable	Boolean	true	Indicates whether scaling out disks is allowed.
GatewayClusterInfoList			The information of the Gateway clusters.
ClusterId	String	C-D7958B72E59BAB88	The ID of the Gateway cluster.
ClusterName	String	gateway-name	The name of the Gateway cluster.

Parameter	Type	Example	Description
HostGroupList			The list of node groups.
HostGroupId	String	G-9D08642FB8CE8CFE	The ID of the node group.
HostGroupName	String	Master instance group	The name of the node group.
HostGroupType	String	CORE	The role of the node group.
HostGroupSubType	String	0	A reserved parameter.
HostGroupChangeType	String	PostPaid	The biling method for the node group.
hostGroupChangeStatus	String	0	A reserved parameter.
ChargeType	String	PostPaid	The billing method.
Period	String	30	The length of the subscription. Unit : months. Valid values: 1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 24, and 36.
NodeCount	Integer	4	The number of nodes in the node group.
InstanceType	String	ecs.n4.2xlarge	The instance type of the node group.
CpuCore	Integer	16	The number of vCPUs.
MemoryCapacity	Integer	16	The memory size.
DiskType	String	CLOUD_SSD	The type of the data disks.
DiskCapacity	Integer	120	The capacity of each data disk.
DiskCount	Integer	4	The number of data disks.
BandWidth	String	10	The bandwidth.

Parameter	Type	Example	Description
LockType	String	0	A reserved parameter.
LockReason	String	0	A reserved parameter.
Nodes			The list of nodes.
ZoneId	String	cn-hangzhou-e	The zone ID.
InstanceId	String	i-bp1ftve3lz vpm16hp7lo	The instance ID.
Status	String	NORMAL	The status.
PubIp	String	47.99.162.57	The public IP address.
InnerIp	String	192.168.128.236	The internal IP address.
ExpiredTime	String	2099-12-31T15:59Z	The expiration time of the subscription cluster.
CreateTime	String	1543804242000	The creation time.
EmrExpiredTime	String	2099-12-31T15:59Z	The expiration time of the ECS instance .
DaemonInfos			A reserved parameter.
Name	String	0	A reserved parameter.
DiskInfos			The list of disk information.
Device	String	/dev/xvdb	The device information of the disk.
DiskName	String1	disk1	The name of the disk.
DiskId	String	d-bp15vg2nr3 x2t0f37ko9	The ID of the disk.
Type	String	data	The type of the disk .

Parameter	Type	Example	Description
Size	Integer	80	The capacity of the disk. Unit: gibibytes .
BootstrapActionList			The list of bootstrap actions.
Name	String	action_name	The name of the bootstrap action.
Path	String	oss://bucket/path	The path where the bootstrap action script is stored.
Arg	String	--a	The argument that you pass into the bootstrap action.
RelateClusterInfo			The informatio n of the cluster associated by the Gateway.
ClusterId	String	C-D7958B72E5 9BAB88	The ID of the associated cluster.
ClusterName	String	main	The name of the associated cluster.
FailReason			The cause of the cluster creation failure.
ErrorCode	String	InvalidImageId. NotFound	The error code.
ErrorMsg	String	The specified ImageId does not exist.	The error message.
RequestId	String	B8DC3A91-3953 -4444-92BB- DBC29C47EC1A	The ID of the request.
SoftwareInfo			The list of service information.
EmrVer	String	EMR-3.16.0	The version of EMR .

Parameter	Type	Example	Description
ClusterType	String	HADOOP	The type of the cluster.
Softwares			The list of services.
DisplayName	String	Hive	The name of the service.
Name	String	HIVE	The internal name of the service.
OnlyDisplay	Boolean	false	Indicates whether to display the service name.
StartTpe	Integer	1	The start type.
Version	String	2.3.3	The version of the service.
AccessInfo			The access information.
ZKLinks			The access information of ZooKeeper.
Link	String	emr-worker-1,emr-header-2,emr-header-1	The nodes where ZooKeeper is deployed.
Port	String	2181	The port used by ZooKeeper.

Examples

- Sample requets

```
/?  Id = C - E331B8AC12  BF5DB4
& RegionId = cn - hangzhou
& AccessKeyI  d = LTAI8ljWyu  7y ****
&< Commin   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " code ":" 200 ",
 " data ":{
  " ClusterInf  o ":{
   " AutoScalin  gAllowed ": true ,
   " AutoScalin  gEnable ": false ,
```

```
    " AutoScalin  gSpotWithL  imitAllowe  d ": true ,
    " BootstrapA  ctionList ":{
     " BootstrapA  ction ":[]
    },
    " BootstrapF  ailed ": false ,
    " ChargeType ":" PostPaid ",
    " Configurat  ions ":"",
    " CoreNodeIn  Service ": 2 ,
    " CoreNodeTo  tal ": 2 ,
    " CreateReso  urce ":" ECM_EMR ",
    " CreateType ":" MANUAL ",
    " EasEnable ": true ,
    " GatewayClu  sterInfoLi  st ":{
     " GatewayClu  sterInfo ":[]
    },
    " HighAvaila  bilityEnab  le ": true ,
    " HostGroupL  ist ":{
     " HostGroup ":[
      {
       " ChargeType ":" PostPaid ",
       " CpuCore ": 8 ,
       " DiskCapaci  ty ": 80 ,
       " DiskCount ": 1 ,
       " DiskType ":" CLOUD_SSD ",
       " HostGroupI  d ":" G - 79AA94922D  FBE2E2 ",
       " HostGroupN  ame ":" Master   instance   group ",
       " HostGroupT  ype ":" MASTER ",
       " InstanceTy  pe ":" ecs . n4 . 2xlarge ",
       " MemoryCapa  city ": 16 ,
       " NodeCount ": 2 ,
       " Nodes ":{
        " Node ":[
         {
          " CreateTime ":" 1543804242  000 ",
          " DaemonInfo  s ":{
           " DaemonInfo ":[]
          },
          " DiskInfos ":{
           " DiskInfo ":[
            {
             " Device ":"/ dev / xvdb ",
             " DiskId ":" d - bp15vg2nr3  x2t0f37ko9 ",
             " Size ": 80 ,
             " Type ":" data "
            },
            {
             " Device ":"/ dev / xvda ",
             " DiskId ":" d - bp16c7qips  xtrq97mybg ",
             " Size ": 120 ,
             " Type ":" system "
            }
           ]
          },
          " EmrExpired  Time ":" null ",
          " ExpiredTim  e ":" 2099 - 12 - 31T15 : 59Z ",
          " InnerIp ":" 192 . 168 . 128 . 235 ",
          " InstanceId ":" i - bp16c7qips  xtrq99ixt2 ",
          " PubIp ":" 47 . 97 . 214 . 105 ",
          " Status ":" NORMAL ",
          " ZoneId ":" cn - hangzhou - b "
         },
         {
          " CreateTime ":" 1543804242  000 ",
          " DaemonInfo  s ":{
```

```
          " DaemonInfo ":[]
         },
         " DiskInfos ":{
          " DiskInfo ":[
           {
            " Device ":"/ dev / xvdb ",
            " DiskId ":" d - bp1568nnv4  ev81672qe6 ",
            " Size ": 80 ,
            " Type ":" data "
           },
           {
            " Device ":"/ dev / xvda ",
            " DiskId ":" d - bp16z8pr0y  2vgfkghuba ",
            " Size ": 120 ,
            " Type ":" system "
           }
          ]
         },
         " EmrExpired  Time ":" null ",
         " ExpiredTim  e ":" 2099 - 12 - 31T15 : 59Z ",
         " InnerIp ":" 192 . 168 . 128 . 236 ",
         " InstanceId ":" i - bp1ftve3lz  vpm16hp7lo ",
         " PubIp ":" 47 . 99 . 162 . 57 ",
         " Status ":" NORMAL ",
         " ZoneId ":" cn - hangzhou - b "
        }
       ]
      }
     },
     {
      " ChargeType ":" PostPaid ",
      " CpuCore ": 8 ,
      " DiskCapaci  ty ": 80 ,
      " DiskCount ": 4 ,
      " DiskType ":" CLOUD_SSD ",
      " HostGroupI  d ":" G - 9D08642FB8  CE8CFE ",
      " HostGroupN  ame ":" Core   instance   group ",
      " HostGroupT  ype ":" CORE ",
      " InstanceTy  pe ":" ecs . n4 . 2xlarge ",
      " MemoryCapa  city ": 16 ,
      " NodeCount ": 2 ,
      " Nodes ":{
       " Node ":[
        {
         " CreateTime ":" 1543804244  000 ",
         " DaemonInfo  s ":{
          " DaemonInfo ":[]
         },
         " DiskInfos ":{
          " DiskInfo ":[
           {
            " Device ":"/ dev / xvde ",
            " DiskId ":" d - bp1568nnv4  ev81672qe5 ",
            " Size ": 80 ,
            " Type ":" data "
           },
           {
            " Device ":"/ dev / xvdd ",
            " DiskId ":" d - bp1967p3xp  86y3wiudgq ",
            " Size ": 80 ,
            " Type ":" data "
           },
           {
            " Device ":"/ dev / xvdc ",
```

```
            " DiskId ":" d - bp11qsh4zw  rwup8jm9rr ",
            " Size ": 80 ,
            " Type ":" data "
          },
          {
            " Device ":"/ dev / xvdb ",
            " DiskId ":" d - bp1d1juyl8  z8aeuza9co ",
            " Size ": 80 ,
            " Type ":" data "
          },
          {
            " Device ":"/ dev / xvda ",
            " DiskId ":" d - bp1ftve3lz  vpm16i37y1 ",
            " Size ": 80 ,
            " Type ":" system "
          }
        ]
      },
      " EmrExpired  Time ":" null ",
      " ExpiredTim  e ":" 2099 - 12 - 31T15 : 59Z ",
      " InnerIp ":" 192 . 168 . 128 . 237 ",
      " InstanceId ":" i - bp1gyhphkj  plgljrsw5f ",
      " PubIp ":"",
      " Status ":" NORMAL ",
      " ZoneId ":" cn - hangzhou - b "
    },
    {
      " CreateTime ":" 1543804247  000 ",
      " DaemonInfo  s ":{
        " DaemonInfo ":[]
      },
      " DiskInfos ":{
        " DiskInfo ":[
          {
            " Device ":"/ dev / xvde ",
            " DiskId ":" d - bp12zhcmd9  6101qhz8ko ",
            " Size ": 80 ,
            " Type ":" data "
          },
          {
            " Device ":"/ dev / xvdd ",
            " DiskId ":" d - bp13rttoh3  l1gj84gcas ",
            " Size ": 80 ,
            " Type ":" data "
          },
          {
            " Device ":"/ dev / xvdc ",
            " DiskId ":" d - bp1cnruigp  pe54k6fx18 ",
            " Size ": 80 ,
            " Type ":" data "
          },
          {
            " Device ":"/ dev / xvdb ",
            " DiskId ":" d - bp1967p3xp  86y3wiudgr ",
            " Size ": 80 ,
            " Type ":" data "
          },
          {
            " Device ":"/ dev / xvda ",
            " DiskId ":" d - bp1ik6bdp8  fpsr8zsebj ",
            " Size ": 80 ,
            " Type ":" system "
          }
        ]
```

```
        },
        " EmrExpired  Time ":" null ",
        " ExpiredTim  e ":" 2099 - 12 - 31T15 : 59Z ",
        " InnerIp ":" 192 . 168 . 128 . 238 ",
        " InstanceId ":" i - bp1ftve3lz  vpm16hp7lp ",
        " PubIp ":"",
        " Status ":" NORMAL ",
        " ZoneId ":" cn - hangzhou - b "
       }
      ]
     }
    }
   ]
  },
  " Id ":" C - E331B8AC12  BF5DB4 ",
  " ImageId ":" m - bp118knl07  yk88y8s6cj ",
  " IoOptimize  d ": true ,
  " LocalMetaD  b ": true ,
  " MasterNode  InService ": 2 ,
  " MasterNode  Total ": 0 ,
  " Name ":" df - test - safe ",
  " NetType ":" vpc ",
  " RegionId ":" cn - hangzhou ",
  " ResizeDisk  Enable ": true ,
  " RunningTim  e ": 1102 ,
  " SecurityGr  oupId ":" sg - bp1bvompzx  gx7q0lg7oy ",
  " SecurityGr  oupName ":" emr - default - securitygr  oup ",
  " ShowSoftwa  reInterfac  e ": false ,
  " SoftwareIn  fo ":{
   " ClusterTyp  e ":" HADOOP ",
   " EmrVer ":" EMR - 3 . 16 . 0_pre ",
   " Softwares ":{
    " Software ":[
     {
      " DisplayNam  e ":" HDFS ",
      " Name ":" HDFS ",
      " OnlyDispla  y ": false ,
      " StartTpe ": 1 ,
      " Version ":" 2 . 7 . 2 - 1 . 3 . 2 "
     },
     {
      " DisplayNam  e ":" YARN ",
      " Name ":" YARN ",
      " OnlyDispla  y ": false ,
      " StartTpe ": 1 ,
      " Version ":" 2 . 7 . 2 - 1 . 3 . 2 "
     },
     {
      " DisplayNam  e ":" Hive ",
      " Name ":" HIVE ",
      " OnlyDispla  y ": false ,
      " StartTpe ": 1 ,
      " Version ":" 2 . 3 . 3 - 1 . 0 . 3 "
     },
     {
      " DisplayNam  e ":" Ganglia ",
      " Name ":" GANGLIA ",
      " OnlyDispla  y ": false ,
      " StartTpe ": 1 ,
      " Version ":" 3 . 7 . 2 "
     },
     {
      " DisplayNam  e ":" Zookeeper ",
      " Name ":" ZOOKEEPER ",
```

```
        " OnlyDispla  y ": false ,
        " StartTpe ": 1 ,
        " Version ":" 3 . 4 . 13 "
       },
       {
        " DisplayNam  e ":" Spark ",
        " Name ":" SPARK ",
        " OnlyDispla  y ": false ,
        " StartTpe ": 1 ,
        " Version ":" 2 . 3 . 2 - 1 . 0 . 1 "
       },
       {
        " DisplayNam  e ":" HBase ",
        " Name ":" HBASE ",
        " OnlyDispla  y ": false ,
        " StartTpe ": 1 ,
        " Version ":" 1 . 1 . 1 - 1 . 0 . 2 "
       },
       {
        " DisplayNam  e ":" HUE ",
        " Name ":" HUE ",
        " OnlyDispla  y ": false ,
        " StartTpe ": 1 ,
        " Version ":" 4 . 1 . 0 "
       },
       {
        " DisplayNam  e ":" Zeppelin ",
        " Name ":" ZEPPELIN ",
        " OnlyDispla  y ": false ,
        " StartTpe ": 1 ,
        " Version ":" 0 . 8 . 0 "
       },
       {
        " DisplayNam  e ":" Tez ",
        " Name ":" TEZ ",
        " OnlyDispla  y ": false ,
        " StartTpe ": 1 ,
        " Version ":" 0 . 9 . 1 - 1 . 0 . 2 "
       },
       {
        " DisplayNam  e ":" Presto ",
        " Name ":" PRESTO ",
        " OnlyDispla  y ": false ,
        " StartTpe ": 1 ,
        " Version ":" 0 . 208 "
       },
       {
        " DisplayNam  e ":" Sqoop ",
        " Name ":" SQOOP ",
        " OnlyDispla  y ": false ,
        " StartTpe ": 1 ,
        " Version ":" 1 . 4 . 7 - 1 . 0 . 0 "
       },
       {
        " DisplayNam  e ":" Pig ",
        " Name ":" PIG ",
        " OnlyDispla  y ": false ,
        " StartTpe ": 1 ,
        " Version ":" 0 . 14 . 0 "
       },
       {
        " DisplayNam  e ":" ApacheDS ",
        " Name ":" APACHEDS ",
        " OnlyDispla  y ": false ,
```

```
        " StartTpe ": 1 ,
        " Version ":" 2 . 0 . 0 "
      },
      {
        " DisplayNam  e ":" HAS ",
        " Name ":" HAS ",
        " OnlyDispla  y ": false ,
        " StartTpe ": 1 ,
        " Version ":" 1 . 1 . 1 "
      },
      {
        " DisplayNam  e ":" Knox ",
        " Name ":" KNOX ",
        " OnlyDispla  y ": false ,
        " StartTpe ": 1 ,
        " Version ":" 0 . 13 . 0 - 0 . 0 . 3 "
      }
    ]
  }
},
" StartTime ": 1543804234  000 ,
" Status ":" IDLE ",
" TaskNodeIn  Service ": 0 ,
" TaskNodeTo  tal ": 0 ,
" UserDefine  dEmrEcsRol  e ":" AliyunEmrE  csDefaultR  ole ",
" UserId ": 1250460021  75 ****,
" VSwitchId ":" vsw - bp11qjbygg  il4pow064f  g ",
" VpcId ":" vpc - bp1l4urd87  xlh7i4bju4  h ",
" ZoneId ":" cn - hangzhou - b "
},
" RequestId ":" 14E9C045 - 9B8D - 4D1E - 8D23 - FC0027B6D9  47 "
},
" requestId ":" 14E9C045 - 9B8D - 4D1E - 8D23 - FC0027B6D9  47 ",
" successRes  ponse ": true
}
```


- **Error response examples**

  JSON format


```
{
" code ":" ClusterId . NotFound ",
" message ":" ClusterId  [ null ]  does  not  exist .",
" requestId ":" 93EC4B6D - 76D2 - 4CB1 - 847D - C7A5E5E020  6A ",
" successRes  ponse ": false
}
```


Error codes

View error codes.

3.7 DescribeEmrMainVersion

You can call this operation to view the details of an EMR version.

Request parameters

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-hangzhou	The region ID.
AccessKeyId	String	Yes	LTAI8ljWyu7y****	The AccessKey ID.
EmrVersion	String	No	EMR-3.15.0	The version of EMR.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BF4FBAC6-B03E-4BFB-B6DB-EB53C34F2E22	The ID of the request.
EmrMainVersion			The details of the EMR version.
RegionId	String	cn-hangzhou	The region ID.
EmrVersion	String	EMR-3.15.0	The version.
EmrVersion	Boolean	true	
ImageId	String		The ID of the image.
Display	Boolean	True	Indicates whether the version is open to the public.
StackName	String	EMR	The name of the software stack.

Parameter	Type	Example	Description
StackVersion	String	0	A reserved parameter.
ClusterTypeInfoList			The list of information of cluster types.
ClusterType	String	HADOOP	The type of the cluster.
ServiceInfoList			The list of service information.
ServiceName	String	HIVE	The name of the service.
ServiceDisplayName	String	Hive	The display name of the service.
ServiceVersion	String	2.3.3-1.0.2	The internal version of the service.
ServiceDisplayVersion	String	2.3.3	The display version of the service.
Mandatory	Boolean	true	Indicates whether the service is required.
Display	Boolean	true	Indicates whether the service is displayed.
WhiteUserList	String	[""]	A reserved parameter.

Examples

- Sample requests

```
/?  RegionId = cn - hangzhou
& AccessKeyI  d = LTAI8ljWyu  7y ****
& EmrVersion = EMR - 3 . 15 . 0
```

```
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
    " emrMainVer  sion ":{
        " clusterTyp  eInfoList ":[
            {
                " clusterTyp  e ":" HADOOP ",
                " serviceInf  oList ":[
                    {
                        " display ": true ,
                        " mandatory ": false ,
                        " serviceDis  playName ":" Livy ",
                        " serviceDis  playVersio  n ":" 0 . 5 . 0 ",
                        " serviceNam  e ":" LIVY ",
                        " serviceVer  sion ":" 0 . 5 . 0 "
                    },
                    {
                        " display ": true ,
                        " mandatory ": false ,
                        " serviceDis  playName ":" Superset ",
                        " serviceDis  playVersio  n ":" 0 . 27 . 0
 ",
                        " serviceNam  e ":" SUPERSET ",
                        " serviceVer  sion ":" 0 . 27 . 0 "
                    },
                    {
                        " display ": true ,
                        " mandatory ": false ,
                        " serviceDis  playName ":" Ranger ",
                        " serviceDis  playVersio  n ":" 1 . 0 . 0 ",
                        " serviceNam  e ":" RANGER ",
                        " serviceVer  sion ":" 1 . 0 . 0 "
                    },
                    {
                        " display ": true ,
                        " mandatory ": false ,
                        " serviceDis  playName ":" Flink ",
                        " serviceDis  playVersio  n ":" 1 . 4 . 0 -
 1 . 0 . 1 ",
                        " serviceNam  e ":" FLINK ",
                        " serviceVer  sion ":" 1 . 4 . 0 - 1 . 0 . 1
 "
                    },
                    {
                        " display ": true ,
                        " mandatory ": true ,
                        " serviceDis  playName ":" Knox ",
                        " serviceDis  playVersio  n ":" 0 . 13 . 0 -
 0 . 0 . 3 ",
                        " serviceNam  e ":" KNOX ",
                        " serviceVer  sion ":" 0 . 13 . 0 - 0 . 0 .
 3 "
                    },
                    {
                        " display ": true ,
                        " mandatory ": true ,
                        " serviceDis  playName ":" ApacheDS ",
                        " serviceDis  playVersio  n ":" 2 . 0 . 0 ",
                        " serviceNam  e ":" APACHEDS ",
```

```
                        " serviceVer  sion ":" 2 . 0 . 0 "
                    },
                    {
                        " display ": false ,
                        " mandatory ": false ,
                        " serviceDis  playName ":" HAS ",
                        " serviceDis  playVersio  n ":" 1 . 1 . 1 ",
                        " serviceNam  e ":" HAS ",
                        " serviceVer  sion ":" 1 . 1 . 1 "
                    },
                    {
                        " display ": false ,
                        " mandatory ": false ,
                        " serviceDis  playName ":" Tensorflow ",
                        " serviceDis  playVersio  n ":" 1 . 8 . 0 ",
                        " serviceNam  e ":" TENSORFLOW ",
                        " serviceVer  sion ":" 1 . 8 . 0 "
                    },
                    {
                        " display ": false ,
                        " mandatory ": true ,
                        " serviceDis  playName ":" MySQL ",
                        " serviceDis  playVersio  n ":" 5 . 5 . 52
",
                        " serviceNam  e ":" MYSQL ",
                        " serviceVer  sion ":" 5 . 5 . 52 "
                    },
                    {
                        " display ": true ,
                        " mandatory ": false ,
                        " serviceDis  playName ":" Storm ",
                        " serviceDis  playVersio  n ":" 1 . 1 . 2 ",
                        " serviceNam  e ":" STORM ",
                        " serviceVer  sion ":" 1 . 1 . 2 "
                    },
                    {
                        " display ": true ,
                        " mandatory ": true ,
                        " serviceDis  playName ":" Zeppelin ",
                        " serviceDis  playVersio  n ":" 0 . 8 . 0 ",
                        " serviceNam  e ":" ZEPPELIN ",
                        " serviceVer  sion ":" 0 . 8 . 0 "
                    },
                    {
                        " display ": true ,
                        " mandatory ": true ,
                        " serviceDis  playName ":" HUE ",
                        " serviceDis  playVersio  n ":" 4 . 1 . 0 ",
                        " serviceNam  e ":" HUE ",
                        " serviceVer  sion ":" 4 . 1 . 0 "
                    },
                    {
                        " display ": true ,
                        " mandatory ": true ,
                        " serviceDis  playName ":" Tez ",
                        " serviceDis  playVersio  n ":" 0 . 9 . 1 -
1 . 0 . 2 ",
                        " serviceNam  e ":" TEZ ",
                        " serviceVer  sion ":" 0 . 9 . 1 - 1 . 0 . 2
"
                    },
                    {
                        " display ": true ,
                        " mandatory ": true ,
```

```
                        " serviceDis  playName ":" Sqoop ",
                        " serviceDis  playVersio  n ":" 1 . 4 . 7 -
1 . 0 . 0 ",
                        " serviceNam  e ":" SQOOP ",
                        " serviceVer  sion ":" 1 . 4 . 7 - 1 . 0 . 0
"
                    },
                    {
                        " display ": true ,
                        " mandatory ": false ,
                        " serviceDis  playName ":" Phoenix ",
                        " serviceDis  playVersio  n ":" 4 . 10 . 0 -
1 . 0 . 0 ",
                        " serviceNam  e ":" PHOENIX ",
                        " serviceVer  sion ":" 4 . 10 . 0 - 1 . 0 .
0 "
                    },
                    {
                        " display ": true ,
                        " mandatory ": true ,
                        " serviceDis  playName ":" Pig ",
                        " serviceDis  playVersio  n ":" 0 . 14 . 0
",
                        " serviceNam  e ":" PIG ",
                        " serviceVer  sion ":" 0 . 14 . 0 "
                    },
                    {
                        " display ": true ,
                        " mandatory ": true ,
                        " serviceDis  playName ":" Spark ",
                        " serviceDis  playVersio  n ":" 2 . 3 . 2 -
1 . 0 . 0 ",
                        " serviceNam  e ":" SPARK ",
                        " serviceVer  sion ":" 2 . 3 . 2 - 1 . 0 . 0
"
                    },
                    {
                        " display ": true ,
                        " mandatory ": false ,
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        " regionId ":" cn - hangzhou ",
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```

```
}
```

- Error response examples

  JSON format

```
{
    " code ":" RAM . Permission . NotAllow ",
    " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
    " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A
 ",
    " successRes  ponse ": false
}
```

Error codes

View error codes.

3.8 DescribeClusterBasicInfo

You can call this operation to query instances that have been created in a cluster.

Debugging

Alibaba Cloud provides OpenAPI Explorer to simplify API usage. You can use OpenAPI Explorer to search for APIs, call APIs, and dynamically generate SDK example code.

Request parameters

Parameter	Type	Required	Example	Description
`Action`	String	Yes	DescribeClusterBasicInfo	The operation that you want to perform. Set this parameter to DescribeClusterBasicInfo.
`ClusterId`	String	Yes	C-0EF9B0EC8564****	The ID of the cluster.
`RegionId`	String	Yes	cn-huhehaote	The ID of the region where the cluster instance resides. You can call the DescribeRegions operation to query the ID of the region.

Parameter	Type	Required	Example	Description
`AccessKeyId`	String	No	LTA****u7gTm****	The AccessKey ID provided to you by Alibaba Cloud.

Response parameters

Parameter	Type	Example	Description
ClusterInfo			The detailed information about the cluster.
AccessInfo			The access address of the cluster.
ZKLinks			The list of access addresses of ZooKeeper.
Link	String	192.168.*. *	The access address of ZooKeeper.
Port	String	2181	The port of ZooKeeper.
AutoScalingAllowed	Boolean	true	Indicates whether the cluster supports auto scaling.
AutoScalingByLoadAllowed	Boolean	true	Indicates whether the cluster supports load-based scaling.
AutoScalingEnable	Boolean	true	Indicates whether auto scaling is enabled for the cluster.
AutoScalingSpotWithLimitAllowed	Boolean	true	Indicates whether auto scaling allows the use of spot instances.
BootstrapActionList			The information about the bootstrap script of the cluster.
Arg	String	name=NAME	The parameter of the bootstrap script.
Name	String	boot1	The name of the bootstrap script.

Parameter	Type	Example	Description
Path	String	oss://script/boot1	The path of the bootstrap script in OSS.
BootstrapFailed	Boolean	false	The execution result of the bootstrap action. The value true indicates that the execution is successful, and false indicates that the execution fails.
ChargeType	String	PostPaid	The billing method of the cluster. The value PostPaid indicates pay-as-you-go, and PrePaid indicates subscription.
ClusterId	String	C-02582A4A415E****	The ID of the cluster.
Configurations	String	""	The reserved field. Currently, there is no return value for this field, so you do not need to pay attention to this field.
CoreNodeInService	Integer	0	The deprecated field. Currently, 0 is returned by default. This field will be removed from later versions.
CoreNodeTotal	Integer	0	The deprecated field. Currently, 0 is returned by default. This field will be removed from later versions.
CreateResource	String	ECM_EMR	The deployment method of the cluster. Currently, the default value is ECM_EMR. For clusters created in E-MapReduce of some earlier versions, such as version 1.3.0, the default value is RAW_EMR.

Parameter	Type	Example	Description
CreateType	String	MANUAL	Indicates whether the cluster is created manually or automatically. The value MANUAL indicates that the cluster is created manually.
DepositType	String	HALF_MANAGED	The hosting type of the cluster. The type can be half-hosting or full-hosting. The value HALF_MANAGED indicates half-hosting.
EasEnable	Boolean	false	Indicates whether the cluster is of high security. The value false indicates that the cluster is not of high security.
ExpiredTime	Long	1564367083000	The expiration time of a subscription cluster.
FailReason			The reason why the cluster failed to be created.
ErrorCode	String	ClusterId.NotFound	The error code displayed when cluster creation failed.
ErrorMsg	String	ClusterId [null] does not exist.	The error message displayed when cluster creation failed.
RequestId	String	FDFFCB97-1609-469A-B153-F511CA9FC1F5	The ID of the request in the background when cluster creation failed.
GatewayClusterIds	String	C-xxx	The deprecated field. This field will be removed from later versions.
GatewayClusterInfoList			The list of gateway clusters associated with the cluster.

Parameter	Type	Example	Description
ClusterId	String	C-1AD4D95AF8B6****	The ID of the gateway cluster.
ClusterName	String	test_gateway	The name of the gateway cluster.
Status	String	IDLE	The status of the gateway cluster.
HighAvailabilityEnable	Boolean	true	Indicates whether the cluster provides high availability.
HostPoolInfo			The information about the host pool that is used to create the cluster. This parameter is returned when the cluster is created by using the host pool.
HpBizId	String	HP-xxx	The ID of the host pool.
HpName	String	test_hp	The name of the host pool.
ImageId	String	m-xxx	The ID of the ECS image used by nodes in the cluster.
InstanceGeneration	String	ecs-2	The deprecated field. This field will be removed from later versions.
IoOptimized	Boolean	true	The deprecated field. This field will be removed from later versions.
LocalMetaDb	Boolean	true	Indicates whether the cluster uses the local Hive metadatabase. The value true indicates that the local metadatabase is used, and false indicates that the unified metadatabase is used.
LogEnable	Boolean	false	The deprecated field. This field will be removed from later versions.

Parameter	Type	Example	Description
LogPath	String	""	The deprecated field. This field will be removed from later versions.
MachineType	String	ECS	The node type of the cluster. Currently, the default value is ECS.
MasterNodeInService	Integer	0	The deprecated field. This field will be removed from later versions.
MasterNodeTotal	Integer	0	The deprecated field. This field will be removed from later versions.
MetaStoreType	String	local	The unified metadata type of the cluster.
Name	String	test_cluster	The name of the cluster.
NetType	String	vpc	The network type of the cluster. Valid values: classic and vpc.
Period	Integer	0	The deprecated field. This field will be removed from later versions.
RegionId	String	cn-huhehaote-a	The ID of the region where the cluster resides.
RelateClusterId	String	C-xxx	The deprecated field. This field will be removed from later versions.
RelateClusterInfo			The information about the primary cluster associated with the gateway cluster.
ClusterId	String	C-4A502AECB275****	The ID of the primary cluster.
ClusterName	String	test_hadoop	The name of the primary cluster.

Parameter	Type	Example	Description
Status	String	IDLE	The status of the primary cluster.
ResizeDiskEnable	Boolean	true	Indicates whether the cluster supports disk resizing.
RunningTime	Integer	1583000	The running duration of the cluster , in milliseconds.
SecurityGroupId	String	sg-xxx	The ID of the security group of the cluster.
SecurityGroupName	String	test_groupName	The name of the security group of the cluster.
ShowSoftwareInterface	Boolean	false	The deprecated field. This field will be removed from later versions.
SoftwareInfo			The information about the software services deployed in the cluster.
ClusterType	String	HADOOP	The type of the cluster.
EmrVer	String	EMR-3.21.0	The version of E-MapReduce.
Softwares			The list of services.
DisplayName	String	HDFS	The displayed name of the service.
Name	String	HDFS	The name of the service.
OnlyDisplay	Boolean	false	The deprecated field. This field will be removed from later versions.
StartTpe	Integer	1	The deprecated field. This field will be removed from later versions.
Version	String	2.8.5	The version of the service.

Parameter	Type	Example	Description
StartTime	Long	1564367083000	The time when the cluster started.
Status	String	IDLE	The status of the cluster.
StopTime	Long	1564367083000	The time when the cluster stopped.
TaskNodeInService	Integer	0	The deprecated field. This field will be removed from later versions.
TaskNodeTotal	Integer	0	The deprecated field. This field will be removed from later versions.
UserDefinedEmrEcsRole	String	AliyunEmrEcsDefaultRole	The name of the service role of E-MapReduce.
UserId	String	1113132131 1****	The ID of the user.
VSwitchId	String	vsw-xxx	The ID of the VSwitch.
VpcId	String	vpc-xxx	The ID of the VPC.
ZoneId	String	cn-huhehaote-a	The ID of the zone where the cluster resides.
RequestId	String	BB81FF02-2FE0-4DB0-A04B-A0876D21EDD7	The ID of the request.

Examples

Sample request

```
 http ( s )://[ Endpoint ]/?  Action = DescribeCl  usterBasic  Info
& ClusterId = C - 0EF9B0EC85  64 ****
& RegionId = cn - huhehaote
&< Common   request   parameters >
```

Sample success response

`XML` format

```
< DescribeCl  usterBasic  InfoRespon  se >
```

```
  < ClusterInf  o >
     < ImageId > m - hp37dmahkd  x7h2b5qunn </ ImageId >
     < SecurityGr  oupId > sg - hp360xqw5l  179aty ****</ SecurityGr
oupId >
     < DepositTyp  e > HALF_MANAG  ED </ DepositTyp  e >
     < CoreNodeIn  Service > 0 </ CoreNodeIn  Service >
     < ZoneId > cn - huhehaote - a </ ZoneId >
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gSpotWithL  imitAllowe  d >
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     < ShowSoftwa  reInterfac  e > false </ ShowSoftwa  reInterfac  e
>
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SecurityGr  oupName >
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```

```
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            < Software >
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                < StartTpe > 1 </ StartTpe >
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```

```
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                < DisplayNam  e > FLUME </ DisplayNam  e >
                < StartTpe > 1 </ StartTpe >
            </ Software >
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          < ClusterTyp  e > HADOOP </ ClusterTyp  e >
      </ SoftwareIn  fo >
      < CreateType > MANUAL </ CreateType >
      < VSwitchId > vsw - hp333ghqgd  xkk3djb ****</ VSwitchId >
      < VpcId > vpc - hp3fawn3tu  8ny436o ****</ VpcId >
      < TaskNodeTo  tal > 0 </ TaskNodeTo  tal >
      < BootstrapF  ailed > false </ BootstrapF  ailed >
      < CoreNodeTo  tal > 0 </ CoreNodeTo  tal >
      < StartTime > 1564132024  000 </ StartTime >
      < MasterNode  Total > 0 </ MasterNode  Total >
      < ChargeType > PostPaid </ ChargeType >
      < Configurat  ions ></ Configurat  ions >
      < UserId > 1079926896  99 ****</ UserId >
      < Name > EMR - API - test </ Name >
      < EasEnable > false </ EasEnable >
      < AutoScalin  gEnable > false </ AutoScalin  gEnable >
      < Status > IDLE </ Status >
      < LocalMetaD  b > true </ LocalMetaD  b >
      < HighAvaila  bilityEnab  le > false </ HighAvaila  bilityEnab
 le >
      < ClusterId > C - 02582A4A41  5E ****</ ClusterId >
      < RunningTim  e > 1004 </ RunningTim  e >
      < UserDefine  dEmrEcsRol  e > AliyunEmrE  csDefaultR  ole </
 UserDefine  dEmrEcsRol  e >
    </ ClusterInf  o >
    < RequestId > BB81FF02 - 2FE0 - 4DB0 - A04B - A0876D21ED  D7 </
 RequestId >
</ DescribeCl  usterBasic  InfoRespon  se >
```

`JSON` format

```
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  " SecurityGr  oupId ":" sg - hp360xqw5l  179aty ****",
  " ImageId ":" m - hp37dmahkd  x7h2b5qunn ",
  " MasterNode  InService ": 0 ,
```

```
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 " Softwares ":{
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```

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      " DisplayNam  e ":" Oozie ",
      " Version ":" 5 . 1 . 0 ",
      " StartTpe ": 1
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      " Version ":" 0 . 9 . 1 ",
      " StartTpe ": 1
     },
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      " Version ":" 4 . 14 . 1 ",
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     },
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      " DisplayNam  e ":" Presto ",
      " Version ":" 0 . 213 ",
      " StartTpe ": 1
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      " Version ":" 1 . 4 . 7 ",
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      " Version ":" 0 . 14 . 0 ",
      " StartTpe ": 1
     },
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      " OnlyDispla  y ": false ,
      " DisplayNam  e ":" Storm ",
      " Version ":" 1 . 2 . 2 ",
      " StartTpe ": 1
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      " OnlyDispla  y ": false ,
      " DisplayNam  e ":" Impala ",
      " Version ":" 2 . 12 . 2 ",
      " StartTpe ": 1
     },
     {
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      " OnlyDispla  y ": false ,
      " DisplayNam  e ":" Flink ",
      " Version ":" 1 . 7 . 2 ",
```

```
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      " Version ":" 1 . 2 . 0 ",
      " StartTpe ": 1
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      " OnlyDispla  y ": false ,
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      " Version ":" 1 . 1 . 0 ",
      " StartTpe ": 1
     },
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      " OnlyDispla  y ": false ,
      " DisplayNam  e ":" Superset ",
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      " StartTpe ": 1
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      " DisplayNam  e ":" Bigboot ",
      " Version ":" 1 . 0 . 0 ",
      " StartTpe ": 1
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      " DisplayNam  e ":" LIVY ",
      " Version ":" 0 . 6 . 0 ",
      " StartTpe ": 1
     },
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      " DisplayNam  e ":" SmartData ",
      " Version ":" 1 . 0 . 0 ",
      " StartTpe ": 1
     },
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      " OnlyDispla  y ": false ,
      " DisplayNam  e ":" FLUME ",
      " Version ":" 1 . 8 . 0 ",
      " StartTpe ": 1
     },
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      " Name ":" ANALYTICS - ZOO ",
      " OnlyDispla  y ": false ,
      " DisplayNam  e ":" analytics - zoo ",
      " Version ":" 0 . 5 . 0 ",
      " StartTpe ": 1
     },
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      " Name ":" APACHEDS ",
      " OnlyDispla  y ": false ,
      " DisplayNam  e ":" ApacheDS ",
      " Version ":" 2 . 0 . 0 ",
      " StartTpe ": 1
```

```
      }
     ]
    },
    " EmrVer ":" EMR - 3 . 21 . 1 ",
    " ClusterTyp  e ":" HADOOP "
  },
  " DepositTyp  e ":" HALF_MANAG  ED ",
  " CoreNodeIn  Service ": 0 ,
  " ZoneId ":" cn - huhehaote - a ",
  " CreateType ":" MANUAL ",
  " VSwitchId ":" vsw - hp333ghqgd  xkk3djb ****",
  " AutoScalin  gSpotWithL  imitAllowe  d ": false ,
  " VpcId ":" vpc - hp3fawn3tu  8ny436o ****",
  " IoOptimize  d ": true ,
  " TaskNodeTo  tal ": 0 ,
  " TaskNodeIn  Service ": 0 ,
  " BootstrapF  ailed ": false ,
  " CoreNodeTo  tal ": 0 ,
  " StartTime ": 1564132024  000 ,
  " MasterNode  Total ": 0 ,
  " ChargeType ":" PostPaid ",
  " MachineTyp  e ":" ECS ",
  " Configurat  ions ":"",
  " AutoScalin  gAllowed ": false ,
  " UserId ":" 1079926896  99 ****",
  " ShowSoftwa  reInterfac  e ": false ,
  " AutoScalin  gEnable ": false ,
  " EasEnable ": false ,
  " Name ":" EMR - API - test ",
  " Status ":" IDLE ",
  " ResizeDisk  Enable ": false ,
  " HighAvaila  bilityEnab  le ": false ,
  " LocalMetaD  b ": true ,
  " SecurityGr  oupName ":" sg - hp360xqw5l  179aty ****",
  " BootstrapA  ctionList ":{
   " BootstrapA  ction ":[]
  },
  " ClusterId ":" C - 02582A4A41  5E ****",
  " CreateReso  urce ":" ECM_EMR ",
  " RegionId ":" cn - huhehaote ",
  " RunningTim  e ": 1004 ,
  " GatewayClu  sterInfoLi  st ":{
   " GatewayClu  sterInfo ":[]
  },
  " NetType ":" vpc ",
  " UserDefine  dEmrEcsRol  e ":" AliyunEmrE  csDefaultR  ole "
},
" RequestId ":" BB81FF02 - 2FE0 - 4DB0 - A04B - A0876D21ED  D7 "
```

```
}
```

Error codes

Http status code	Error code	Error message	Description
403	Params.Illegal	The specified parameters are wrongly formed.	The error message returned because the format of the specified parameter is invalid.
404	ClusterId.NotFound	ClusterId [%s] does not exist.	The error message returned because the specified ClusterId parameter does not exist. Check the ID of the cluster.
403	User.OtherUserResource.NotAllow	It is not allowed to operate other user's resource	The error message returned because operations cannot be performed on resources of other users.
500	InternalError	The request processing has failed due to some unknown error.	The error message returned because an internal error has occurred. Open a ticket.

For more information about error codes, see API Error Center.

3.9 ListClusterHost

You can call this operation to view the information of cluster hosts including configurations of disks, vCPUs, and memory.

Request parameters

Parameter	Type	Required	Example	Description
ClusterId	String	Yes	C-D7CA98AAA96A****	The ID of the cluster.
RegionId	String	Yes	cn-hangzhou	The region ID.

Parameter	Type	Required	Example	Description
AccessKeyId	String	Yes	LTAI8ljWyu7y****	The AccessKey ID.
ComponentName	String	No	HiveServer2	The name of the component.
GroupType	String	No	MASTER	The type of the host group.
HostInstanceId	String	No	i-bp11vdyh3l6xvmnl****	The ID of the ECS instance.
HostName	String	No	emr-header-1	The name of the instance.
PageNumber	Integer	No	1	The page number. The minimum value is 1.
PageSize	Integer	No	10	The number of records that are displayed on each page.
PrivateIp	String	No	192.168.25.220	The internal IP address of the host.
PublicIp	String	No	47.110.77.16	The public IP address of the host.
StatusList.N	RepeatList	No	["NORMAL"]	The status of the instances.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0A46EB54-0D98-4BFA-B712-1A474925E9D4	The ID of the request.
PageNumber	Integer	1	The page number. The minimum value is 1.

Parameter	Type	Example	Description
PageSize	Integer	10	The number of records that are displayed on each page.
Total	Integer	12	The total number of records.
HostList			The list of hosts.
HostName	String	emr-header-1	The name of the host.
PublicIp	String	47.110.77.16	The public IP address of the host.
PrivateIp	String	192.168.25.220	The internal IP address of the host.
Role	String	MASTER	The role of the host in the cluster.
InstanceType	String	ecs.mn4.xlarge	The instance type of the host.
Cpu	Integer	4	The number of vCPUs.
Memory	Integer	16	The memory size. Unit: gibibytes.
Status	String	NORMAL	The status of the host.
Type	String	VM	The type of the host .
HostInstanceId	String	i-bp1cfwf2cwgji7ds****	The instance ID of the host.
SerialNumber	String	3c2a5078-778d-4c18-87e4-1a38fbcbc306	The serial number of the host.
ChargeType	String	PostPaid	The billing method.
ExpiredTime	Long	32493801600000	The expiration time of the host.
DiskList			The list of disks.
DiskId	String	d-bp1aq78lhbig6ielbur8	The ID of the disk.

Parameter	Type	Example	Description
Type	String	data	The role of the disk.
DiskType	String	CLOUD_EFFI CIENCY	The type of the disk .
DiskSize	Integer	80	The capacity of the disk.

Examples

- Sample requests

```
/?  ClusterId = C - D7CA98AAA9  6A7998
& RegionId = cn - hangzhou
& AccessKeyI  d = LTAI8ljWyu  7y ****
& ComponentN  ame =
& GroupType =
& HostInstan  ceId =
& HostName = emr - header - 1
& PageNumber = 1
& PageSize = 10
& PrivateIp = 192 . 168 . 25 . 220
& PublicIp = 47 . 110 . 77 . 16
& StatusList .  1 =[" NORMAL "]
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
    " hostList ":[
        {
            " chargeType ":" PostPaid ",
            " cpu ": 4 ,
            " diskList ":[
                {
                    " diskId ":" d - bp1d2duao4  slg805dmg8 ",
                    " diskSize ": 80 ,
                    " diskType ":" CLOUD_EFFI  CIENCY ",
                    " type ":" data "
                },
                {
                    " diskId ":" d - bp1974rijb  h940n5ih4q ",
                    " diskSize ": 120 ,
                    " diskType ":" CLOUD_EFFI  CIENCY ",
                    " type ":" system "
                }
            ],
            " expiredTim  e ": 3249380160  0000 ,
            " hostInstan  ceId ":" i - bp1cfwf2cw  gji7ds ****",
            " hostName ":" emr - header - 1 ",
            " instanceTy  pe ":" ecs . mn4 . xlarge ",
            " memory ": 16 ,
            " privateIp ":" 192 . 168 . 25 . 220 ",
            " publicIp ":" 47 . 110 . 77 . 16 ",
            " role ":" MASTER ",
```

```
            " serialNumb  er ":" 3c2a5078 - 778d - 4c18 - 87e4 -
1a38fbcbc3  06 ",
            " status ":" NORMAL "
        },
        {
            " chargeType ":" PostPaid ",
            " cpu ": 4 ,
            " diskList ":[
                {
                    " diskId ":" d - bp1aq78lhb  ig6ielbur8 ",
                    " diskSize ": 80 ,
                    " diskType ":" CLOUD_EFFI  CIENCY ",
                    " type ":" data "
                },
                {
                    " diskId ":" d - bp1iply35z  hdge3nbqxf ",
                    " diskSize ": 80 ,
                    " diskType ":" CLOUD_EFFI  CIENCY ",
                    " type ":" data "
                },
                {
                    " diskId ":" d - bp19gcyyon  6nx2lahx9x ",
                    " diskSize ": 80 ,
                    " diskType ":" CLOUD_EFFI  CIENCY ",
                    " type ":" data "
                },
                {
                    " diskId ":" d - bp1974rijb  h940n5ih4r ",
                    " diskSize ": 80 ,
                    " diskType ":" CLOUD_EFFI  CIENCY ",
                    " type ":" data "
                },
                {
                    " diskId ":" d - bp1558hztv  9c3q3gl7nn ",
                    " diskSize ": 80 ,
                    " diskType ":" CLOUD_EFFI  CIENCY ",
                    " type ":" system "
                }
            ],
            " expiredTim  e ": 3249380160  0000 ,
            " hostInstan  ceId ":" i - bp18sb2w8o  j9p6yf ****",
            " hostName ":" emr - worker - 1 ",
            " instanceTy  pe ":" ecs . n4 . xlarge ",
            " memory ": 8 ,
            " privateIp ":" 192 . 168 . 25 . 221 ",
            " publicIp ":"",
            " role ":" CORE ",
            " serialNumb  er ":" d4dbd488 - 8684 - 4742 - b178 -
5565ef38c6  f9 ",
            " status ":" NORMAL "
        },
        {
            " chargeType ":" PostPaid ",
            " cpu ": 4 ,
            " diskList ":[
                {
                    " diskId ":" d - bp19gcyyon  6nx2lahx9y ",
                    " diskSize ": 80 ,
                    " diskType ":" CLOUD_EFFI  CIENCY ",
                    " type ":" data "
                },
                {
                    " diskId ":" d - bp1314ka4c  7qmhpadwhf ",
                    " diskSize ": 80 ,
```

```
                    " diskType ":" CLOUD_EFFI  CIENCY ",
                    " type ":" data "
                },
                {
                    " diskId ":" d - bp1558hztv  9c3q3gl7no ",
                    " diskSize ": 80 ,
                    " diskType ":" CLOUD_EFFI  CIENCY ",
                    " type ":" data "
                },
                {
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                    " diskSize ": 80 ,
                    " diskType ":" CLOUD_EFFI  CIENCY ",
                    " type ":" data "
                },
                {
                    " diskId ":" d - bp1gpdc9x4  o051udcmd3 ",
                    " diskSize ": 80 ,
                    " diskType ":" CLOUD_EFFI  CIENCY ",
                    " type ":" system "
                }
            ],
            " expiredTim  e ": 3249380160  0000 ,
            " hostInstan  ceId ":" i - bp14rtl1gq  upopgm ****",
            " hostName ":" emr - worker - 2 ",
            " instanceTy  pe ":" ecs . n4 . xlarge ",
            " memory ": 8 ,
            " privateIp ":" 192 . 168 . 25 . 222 ",
            " publicIp ":"",
            " role ":" CORE ",
            " serialNumb  er ":" e8d25d43 - 2df6 - 4054 - 9861 -
 53d1c12d08  cb ",
            " status ":" NORMAL "
        }
    ],
    " pageNumber ": 1 ,
    " pageSize ": 10 ,
    " requestId ":" 0A46EB54 - 0D98 - 4BFA - B712 - 1A474925E9  D4
 ",
    " total ": 3
}
```

- **Error response examples**

  JSON format

```
{
    " code ":" RAM . Permission . NotAllow ",
    " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
    " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A
 ",
    " successRes  ponse ": false
}
```

Error codes

View error codes.

3.10 ListClusters

You can call this operation to query the clusters by page.

Request parameters

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-hangzhou	The region ID.
AccessKeyId	String	Yes	LTAI8ljWyu7y****	The AccessKey ID.
ClusterTypeList.N	RepeatList	No	["HADOOP","KAFKA"]	The list of cluster types.
CreateType	String	No	ON-DEMAND	The creation type of the cluster. Valid values: ON-DEMAND and MANUAL.
DefaultStatus	Boolean	No	true	
IsDesc	Boolean	No	false	Indicates whether to sort the clusters in descending order.
PageNumber	Integer	No	1	The page number. The minimum value is 1.
PageSize	Integer	No	10	The number of records that are displayed on each page.
StatusList.N	RepeatList	No	["CREATING","IDLE"]	The list of status.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BF4FBAC6-B03E-4BFB-B6DB-EB53C34F2E22	The ID of the request.
TotalCount	Integer	12	The total number of records.
PageNumber	Integer	1	The page number.
PageSize	Integer	10	The number of records that are displayed on each page.
Clusters			The list of clusters.
Id	String	C-010A704DA760072A	The ID of the cluster.
Name	String	cluster_name	The name of the cluster.
Type	String	HADOOP	The type of the cluster.
CreateTime	Long	1542784048000	The creation time of the cluster.
RunningTime	Integer	2345	The running duration. Unit: seconds.
Status	String	IDEL	The status of the cluster.
ChargeType	String	PostPaid	The billing method.
ExpiredTime	Long	1542784048000	The expiration time of the subscription cluster.
Period	Integer	36	The length of the subscription. Unit: months. Valid values: 1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 24, and 36.

Parameter	Type	Example	Description
HasUncompletedOrder	Boolean	false	Indicates whether uncompleted orders exist.
OrderList	String	0	The order list.
CreateResource	String	ECM_EMR	ECM_EMR
OrderTaskInfo			A reserved parameter. The information of the order task.
TargetCount	Integer	0	A reserved parameter.
CurrentCount	Integer	0	A reserved parameter.
OrderIdList	String	0	A reserved parameter.
FailReason			The cause of creation failure.
ErrorCode	String	InvalidImageId.NotFound	The error code.
ErrorMsg	String	The specified ImageId does not exist.	The error message.
RequestId	String	B8DC3A91-3953-4444-92BB-DBC29C47EC1A	The ID of the request.

Examples

- Sample requests

```
/?  RegionId = cn - hangzhou
& AccessKeyI  d = LTAI8ljWyu  7y ****
& ClusterTyp  eList .  1 =[" HADOOP "," KAFKA "]
& CreateType = ON - DEMAND
& DefaultSta  tus =
& IsDesc = false
& PageNumber = 1
& PageSize = 10
& StatusList .  1 =[" CREATING "," IDLE "]
```

```
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
    " clusters ":[
        {
            " chargeType ":" PostPaid ",
            " createReso  urce ":" ECM_EMR ",
            " createTime ": 1542784048  000 ,
            " failReason ":{},
            " hasUncompl  etedOrder ": false ,
            " id ":" C - 010A704DA7  60072A ",
            " name ":" jy_test_d1  _test ",
            " orderTaskI  nfo ":{},
            " runningTim  e ": 3138 ,
            " status ":" RELEASED ",
            " type ":" HADOOP "
        },
        {
            " chargeType ":" PostPaid ",
            " createReso  urce ":" ECM_EMR ",
            " createTime ": 1538107586  000 ,
            " failReason ":{},
            " hasUncompl  etedOrder ": false ,
            " id ":" C - B971220906  0CAB62 ",
            " name ":" intelligen  ce - 313 - yp ",
            " orderTaskI  nfo ":{},
            " runningTim  e ": 2069400 ,
            " status ":" RELEASED ",
            " type ":" HADOOP "
        },
        {
            " chargeType ":" PostPaid ",
            " createReso  urce ":" ECM_EMR ",
            " createTime ": 1536546078  000 ,
            " failReason ":{},
            " hasUncompl  etedOrder ": false ,
            " id ":" C - 4CD9EBBD6B  23C81E ",
            " name ":" mg - storm ",
            " orderTaskI  nfo ":{},
            " runningTim  e ": 1382155 ,
            " status ":" RELEASED ",
            " type ":" HADOOP "
        },
        {
            " chargeType ":" PostPaid ",
            " createReso  urce ":" ECM_EMR ",
            " createTime ": 1535363759  000 ,
            " failReason ":{},
            " hasUncompl  etedOrder ": false ,
            " id ":" C - 75D6EE95D7  22E5CA ",
            " name ":" df - 3101 - upgrade - test ",
            " orderTaskI  nfo ":{},
            " runningTim  e ": 676284 ,
            " status ":" RELEASED ",
            " type ":" HADOOP "
        },
        {
            " chargeType ":" PostPaid ",
            " createReso  urce ":" ECM_EMR ",
```

```
            " createTime ": 1534492361  000 ,
            " failReason ":{
                " errorCode ":" InvalidIma  geId . NotFound ",
                " errorMsg ":" The   specified   ImageId   does
 not   exist .",
                " requestId ":" B8DC3A91 - 3953 - 4444 - 92BB -
 DBC29C47EC  1A "
            },
            " hasUncompl  etedOrder ": false ,
            " id ":" C - 5EF0F3C257  B16CB7 ",
            " name ":" test   cluster1 ",
            " orderTaskI  nfo ":{},
            " runningTim  e ": 0 ,
            " status ":" CREATE_FAI  LED ",
            " type ":" HADOOP "
        }
    ],
    " pageNumber ": 1 ,
    " pageSize ": 5 ,
    " requestId ":" 5443DB14 - 4641 - 4DFF - 9226 - 4888EC5A2E  A9
 ",
    " totalCount ": 11
}
```

- **Error response examples**

  JSON format

```
{
    " code ":" RAM . Permission . NotAllow ",
    " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
    " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A
 ",
    " successRes  ponse ": false
}
```

Error codes

View error codes.

3.11 ListClusterTemplates

You can call this operation to view the list of cluster templates.

Request parameters

Parameter	Type	Required	Example	Description
PageNumber	Integer	Yes	1	The page number. The minimum value is 1.

Parameter	Type	Required	Example	Description
PageSize	Integer	Yes	10	The number of records that are displayed on each page.
AccessKeyId	String	Yes	LTAI8ljWyu7y****	The AccessKey ID.
BizId	String	No	CT-4A6799A79D73385B	The ID of the cluster template.
RegionId	String	No	cn-hangzhou	The region ID.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BF4FBAC6-B03E-4BFB-B6DB-EB53C34F2E22	The ID of the request.
TotalCount	Integer	12	The total number of cluster templates.
PageNumber	Integer	1	The page number. The minimum number is 1.
PageSize	Integer	10	The number of records that are displayed on each page.
TemplateInfoList			The list of cluster templates.
Id	String	CT-4A6799A79D73385B	The ID of the cluster template.
TemplateName	String	template_name_2	The name of the cluster template.
LogEnable	Boolean	true	Indicates whether OSS logging is enabled.
LogPath	String	oss//bucketname/path	The log path in OSS.

Parameter	Type	Example	Description
UserId	String	125046002175****	The ID of the user that creates the cluster.
UserDefinedEmrEcsRole	String	AliyunEmrEcsDefaultRole	The role that is assigned to EMR for calling ECS resources.
MasterNodeTotal	Integer	1	The number of master nodes.
VpcId	String	vpc-bp1l4urd87xlh7i4bju4h	The ID of the VPC.
VSwitchId	String	vsw-bp10tvjyc77psy0z5h0ni	The ID of the VSwitch.
NetType	String	vpc	The network type.
IoOptimized	Boolean	true	Indicates whether I/O optimization is enabled.
InstanceGeneration	String	ecs-3	The generation of ECS instances.
HighAvailabilityEnable	Boolean	true	Indicates whether the cluster is high-availability.
EasEnable	Boolean	true	Indicates whether the cluster is high-security.
GmtCreate	Long	1543765033000	The creation time of the cluster template.
GmtModified	Long	1543765033000	The modification time of the cluster template.
ZoneId	String	cn-hangzhou-b	The zone ID.
ClusterType	String	HADOOP	The type of the cluster.
SecurityGroupId	String	sg-bp1id7ajv83kmqwq2isx	The ID of the security group.

Parameter	Type	Example	Description
SecurityGroupName	String	emr_sg	The name of the security group to create.
Configurations	String	[{"classification": "core-site"," properties": {"fs.trash.interval": "61"}},{"classification": "hadoop-log4j","properties": {"hadoop.log.file": "hadoop1.log"," hadoop.root.logger": "INFO","a.b.c": "ABC"}}]	Custom software configuration Before a cluster starts, you can specify a JSON file and modify software configuration.
AllowNotebook	Boolean	true	A reserved parameter.
CreateSource	String	2	The method used to create the cluster template.
UseLocalMetaDb	Boolean	false	Indicates whether local Hive metadata is used.
SshEnable	Boolean	true	Indicates whether SSH is enabled.
IsOpenPublicIp	Boolean	true	Indicates whether the public IP address is assigned.
DepositType	String	HALF_MANAGED	The hosting type.
MachineType	String	ECS	The type of the machine.
UseCustomHiveMetaDb	Boolean	false	A reserved parameter.

Parameter	Type	Example	Description
InitCustomHiveMetaDb	Boolean	true	A value of true indicates that the value of the init.meta.db configuration item in the hive-site file is set to true.
BootstrapActionList			The list of bootstrap actions.
Name	String	create	The name of the bootstrap action.
Path	String	oss://bucket/path	The path where the bootstrap action is stored.
Arg	String	---a	The argument that you pass to the bootstrap action.
HostGroupList			The list of the host groups.
HostGroupId	String	0	A reserved parameter.
HostGroupName	String	Master instance group	The name of the host group.
HostGroupType	String	MASTER	The type of the host group.
ChargeType	String	PostPaid	The billing method.
Period	String	36	The length of the subscription. Unit: months. Valid values: 1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 24, and 36.
NodeCount	Integer	2	The number of nodes in the host group.
InstanceType	String	ecs.mn4.2xlarge	The instance type of the host group.

Parameter	Type	Example	Description
DiskType	String	CLOUD_SSD	The data disk type of the host group.
DiskCapacity	Integer	80	The data disk capacity of the host group.
DiskCount	Integer	4	The data disk number of the host group.
SysDiskType	String	CLOUD_SSD	The system disk type of the host group.
SysDiskCapacity	Integer	40	The system disk capacity of the host group.
MultiInstanceTypes	String	ecs.sn1.xlarge,ecs.sn2.xlarge	The instance types , separated with commas (,).
ConfigList			The list of custom configuration items .
ServiceName	String	YARN	The name (capitalized) of the custom configuration item.
FileName	String	yarn-site	The name of the file that contains the custom configuration item.
ConfigKey	String	fs.trash.interval	The key of the custom configuration item.
ConfigValue	String	60	The value of the custom configuration item.
Encrypt	String	0	A reserved parameter.

Parameter	Type	Example	Description
Replace	String	0	A reserved parameter.
SoftwareInfoList	String	["ZOOKEEPER"]	The list of optional services.

Examples

- **Sample requests**

```
/?  PageNumber = 1
& PageSize = 10
& AccessKeyI  d = LTAI8ljWyu  7y ****
& BizId = CT - 4A6799A79D  73385B
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
 " pageNumber ": 1 ,
 " pageSize ": 10 ,
 " requestId ":" EC911E1F - 8F04 - 4059 - A7A2 - 6B97EE46A9  43 ",
 " templateIn  foList ":[{
  " bootstrapA  ctionList ":[],
  " clusterTyp  e ":" HADOOP ",
  " configList ":[],
  " createSour  ce ":" 2 ",
  " depositTyp  e ":" HALF_MANAG  ED ",
  " easEnable ": false ,
  " gmtCreate ": 1543765033  000 ,
  " gmtModifie  d ": 1543765033  000 ,
  " highAvaila  bilityEnab  le ": false ,
  " hostGroupL  ist ":[
   {
    " chargeType ":" PostPaid ",
    " diskCapaci  ty ": 80 ,
    " diskCount ": 1 ,
    " diskType ":" CLOUD_EFFI  CIENCY ",
    " hostGroupI  d ":"",
    " hostGroupN  ame ":" Master   instance   group ",
    " hostGroupT  ype ":" MASTER ",
    " instanceTy  pe ":" ecs . n4 . xlarge ",
    " nodeCount ": 1
   },
   {
    " chargeType ":" PostPaid ",
    " diskCapaci  ty ": 80 ,
    " diskCount ": 4 ,
    " diskType ":" CLOUD_EFFI  CIENCY ",
    " hostGroupI  d ":"",
    " hostGroupN  ame ":" Core   instance   group ",
    " hostGroupT  ype ":" CORE ",
    " instanceTy  pe ":" ecs . n4 . xlarge ",
    " nodeCount ": 2
```

```
    }
   ],
   " id ":" CT - 35498C56B3  F12002 ",
   " ioOptimize  d ": true ,
   " isOpenPubl  icIp ": true ,
   " logEnable ": false ,
   " machineTyp  e ":" ECS ",
   " masterNode  Total ": 0 ,
   " netType ":" vpc ",
   " securityGr  oupId ":" sg - bp1id7ajv8  3kmqwq2isx ",
   " securityGr  oupName ":" emxxx ",
   " softwareIn  foList ":[
    " FLUME ",
    " FLINK "
   ],
   " sshEnable ": false ,
   " templateNa  me ":" template_n  ame_2 ",
   " useLocalMe  taDb ": true ,
   " userDefine  dEmrEcsRol  e ":" AliyunEmrE  csDefaultR  ole ",
   " userId ": 1250460021  75 ****,
   " vSwitchId ":" vsw - bp10tvjyc7  7psy0z5h0n  i ",
   " vpcId ":" vpc - bp1l4urd87  xlh7i4bju4  h ",
   " zoneId ":" cn - hangzhou - b "
  }],
  " totalCount ": 1
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

3.12 ListClusterServiceQuickLink

You can call this operation to query the quick links of services that run on a cluster.

Request parameters

Parameter	Type	Required	Example	Description
AccessKeyId	String	Yes	LTAI8ljWyu7y ****	The AccessKey ID.
ClusterId	String	Yes	C-4DBD656F20 CEAE0B	The ID of the cluster.

Parameter	Type	Required	Example	Description
ServiceName	String	No	SPARK	The name of the service.
RegionId	String	Yes	cn-hangzhou	The region ID.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BF4FBAC6-B03E-4BFB-B6DB-EB53C34F2E22	The ID of the request.
QuickLinkList			The list of quick links.
ServiceName	String	HUE	The name of the service.
ServiceDisplayName	String	Hue	The display name of the service.
QuickLinkAddress	String	knox.C-4DBD656F20CEAE0B.cn-hangzhou.emr.aliyuncs.com:8888	The address of the quick link.
Protocol	String	https	The protocol.
Port	String	8888	The port number.
Type	String	KNOX	The authentication type.

Examples

- Sample requests

```
/?  ClusterId = C - 4DBD656F20  CEAE0B
& RegionId = cn - hangzhou
& AccessKeyI  d = LTAI8ljWyu  7y ****
& ServiceNam  e = SPARK
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " quickLinkL  ist ":[
  {
```

```
  " port ":" 8443 ",
  " protocol ":" https ",
  " quickLinkA  ddress ":" knox . C - 4DBD656F20  CEAE0B . cn -
hangzhou . emr . aliyuncs . com : 8443 / gateway / cluster - topo /
hdfs /",
  " serviceDis  playName ":" HDFS ",
  " serviceNam  e ":" HDFS ",
  " type ":" KNOX "
 },
 {
  " port ":" 8443 ",
  " protocol ":" https ",
  " quickLinkA  ddress ":" knox . C - 4DBD656F20  CEAE0B . cn -
hangzhou . emr . aliyuncs . com : 8443 / gateway / cluster - topo /
yarn /",
  " serviceDis  playName ":" YARN ",
  " serviceNam  e ":" YARN ",
  " type ":" KNOX "
 },
 {
  " port ":" 8443 ",
  " protocol ":" https ",
  " quickLinkA  ddress ":" knox . C - 4DBD656F20  CEAE0B . cn -
hangzhou . emr . aliyuncs . com : 8443 / gateway / cluster - topo /
sparkhisto  ry /",
  " serviceDis  playName ":" Spark ",
  " serviceNam  e ":" SPARK ",
  " type ":" KNOX "
 },
 {
  " port ":" 8888 ",
  " protocol ":" http ",
  " quickLinkA  ddress ":" knox . C - 4DBD656F20  CEAE0B . cn -
hangzhou . emr . aliyuncs . com : 8888 ",
  " serviceDis  playName ":" Hue ",
  " serviceNam  e ":" HUE ",
  " type ":" DEFAULT "
 },
 {
  " port ":" 8080 ",
  " protocol ":" http ",
  " quickLinkA  ddress ":" knox . C - 4DBD656F20  CEAE0B . cn -
hangzhou . emr . aliyuncs . com : 8080 ",
  " serviceDis  playName ":" Zeppelin ",
  " serviceNam  e ":" ZEPPELIN ",
  " type ":" DEFAULT "
 },
 {
  " port ":" 8443 ",
  " protocol ":" https ",
  " quickLinkA  ddress ":" knox . C - 4DBD656F20  CEAE0B . cn -
hangzhou . emr . aliyuncs . com : 8443 / gateway / cluster - topo /
ganglia /",
  " serviceDis  playName ":" Ganglia ",
  " serviceNam  e ":" GANGLIA ",
  " type ":" KNOX "
 }
],
" requestId ":" 162E738D - 8EF8 - 4C26 - AE55 - 42DA6857A0  43 "
```

```
}
```

- Error response examples

  JSON format

```
{
 " quickLinkL  ist ":[],
 " requestId ":" 6385E55F - 0193 - 4E16 - 8341 - 90E0E87B0A  BC "
}
```

Error codes

View error codes.

3.13 ListClusterHostGroup

You can call this operation to query host groups in a cluster.

Debugging

Alibaba Cloud provides OpenAPI Explorer to simplify API usage. You can use OpenAPI Explorer to search for APIs, call APIs, and dynamically generate SDK example code.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListClusterHostGroup	The operation that you want to perform. Set this parameter to ListClusterHostGroup.
ClusterId	String	Yes	C-D7958B72E59B****	The ID of the cluster.
RegionId	String	Yes	cn-hangzhou	The ID of the region.
AccessKeyId	String	No	LTAI8ljWyu7y****	The AccessKey ID provided to you by Alibaba Cloud.
HostGroupId	String	No	G-76D09CF110A3****	The ID of the host group to be queried.
HostGroupName	String	No	core_group	The name of the host group to be queried.

Parameter	Type	Required	Example	Description
`HostGroupType`	String	No	CORE	The type of the host group to be queried. Valid values: MASTER, CORE, and TASK.
`PageNumber`	Integer	No	1	The number of the page to return.
`PageSize`	Integer	No	10	The number of entries to return on each page.
`StatusList.N`	RepeatList	No	NORMAL	The status list of the host group to be queried. Valid values: NORMAL, ABNORMAL, and DELETED.

Response parameters

Parameter	Type	Example	Description
ClusterId	String	C-D7958B72E59B****	The ID of the cluster.
HostGroupList			The list of host groups in the cluster.
ChargeType	String	PostPaid	The billing method of the host group.
Comment	String	Remarks	The remarks about the host group.
Cpu	Integer	4	The CPU specifications of nodes in the host group.
DataDiskCount	Integer	4	The number of data disks used by nodes in the host group.
DataDiskSize	Integer	100	The size of a single data disk used by nodes in the host group. Unit: GB

Parameter	Type	Example	Description
DataDiskType	String	CLOUD_SSD	The type of data disks used by nodes in the host group.
HostGroupChangeStatus	String	IN_PROGRESS	The execution status of the configuration upgrade task. Valid values: IN_PROGRESS, COMPLETED, and FAILED.
HostGroupChangeType	String	RESIZE_DISK	The type of the configuration upgrade operation on the host group. Valid values: RESIZE_DISK , MODIFY_INSTANCE_TYPE, and RESTART_HOST_GROUP.
HostGroupId	String	G-EBAA5D6566E76F55	The ID of the host group.
HostGroupName	String	Core_Group	The name of the host group.
HostGroupSubType	String	AutoScaling	The sub-type of the host group, for example, AutoScaling.
HostGroupType	String	CORE	The type of the host group. Valid values: MASTER, CORE, and TASK.
InstanceType	String	ecs.c5.xlarge	The specifications of nodes in the host group.
LockReason	String	Your account balance is insufficient	The reason why the host group was locked.
LockType	String	ACCOUNTARREARS	The lock type of the host group. Valid values: CLUSTER_EXPIRED (the cluster has expired) and ACCOUNT_ARREARS (the account balance is insufficient).

Parameter	Type	Example	Description
Memory	Integer	8	The memory specifications of nodes in the host group.
NodeCount	Integer	3	The number of nodes in the host group.
PayType	String	PostPaid	The billing method of the host group.
SecurityGroupId	String	sg-xxx	The ID of the security group.
Status	String	NORMAL	The status of the host group.
SystemDiskCount	Integer	1	The number of system disks used by nodes in the host group.
SystemDiskSize	Integer	40	The size of a single system disk used by nodes in the host group. Unit: GB
SystemDiskType	String	CLOUD_SSD	The type of system disks used by nodes in the host group.
VswitchId	String	vsw-bp161s00cryyb4bs1****	The ID of the VSwitch.
gmtCreate	String	1564472329000	The time when the host group was created.
gmtModified	String	1564472889000	The time when the host group was modified.
PageNumber	Integer	1	The number of the page returned.
PageSize	Integer	10	The number of entries returned on each page.

Parameter	Type	Example	Description
RequestId	String	BF4FBAC6-B03E-4BFB-B6DB-EB53C34F2E22	The ID of the request.
Total	Integer	15	The total number of host groups queried.

Examples

Sample request

```
 http ( s )://[ Endpoint ]/?  Action = ListCluste  rHostGroup
& ClusterId = C - D7958B72E5  9B ****
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

Sample success response

`XML` format

```
< ListCluste  rHostGroup  Response >
   < code > 200 </ code >
   < data >
      < hostGroupL  ist >
         < chargeType > PostPaid </ chargeType >
         < cpu > 4 </ cpu >
         < dataDiskCo  unt > 4 </ dataDiskCo  unt >
         < dataDiskSi  ze > 100 </ dataDiskSi  ze >
         < dataDiskTy  pe > CLOUD_SSD </ dataDiskTy  pe >
         < gmtCreate > 1564472329  000 </ gmtCreate >
         < gmtModifie  d > 1564472889  000 </ gmtModifie  d >
         < hostGroupI  d > G - EBAA5D6566  E7 ****</ hostGroupI  d >
         < hostGroupN  ame > Core_Group </ hostGroupN  ame >
         < hostGroupT  ype > CORE </ hostGroupT  ype >
         < instanceTy  pe > ecs . c5 . xlarge </ instanceTy  pe >
         < memory > 8 </ memory >
         < nodeCount > 3 </ nodeCount >
         < payType > PostPaid </ payType >
         < status > NORMAL </ status >
         < systemDisk  Size > 200 </ systemDisk  Size >
         < systemDisk  Type > CLOUD_SSD </ systemDisk  Type >
         < vswitchId > vsw - bp161s00cr  yyb4bs1 ****</ vswitchId >
      </ hostGroupL  ist >
      < hostGroupL  ist >
         < chargeType > PostPaid </ chargeType >
         < cpu > 4 </ cpu >
         < dataDiskCo  unt > 3 </ dataDiskCo  unt >
         < dataDiskSi  ze > 500 </ dataDiskSi  ze >
         < dataDiskTy  pe > CLOUD_SSD </ dataDiskTy  pe >
         < gmtCreate > 1564472329  000 </ gmtCreate >
         < gmtModifie  d > 1564472889  000 </ gmtModifie  d >
         < hostGroupI  d > G - 3379C5DEBA  14 ****</ hostGroupI  d >
         < hostGroupN  ame > Master_Gro  up </ hostGroupN  ame >
         < hostGroupT  ype > MASTER </ hostGroupT  ype >
```

```
        < instanceTy  pe > ecs . g5 . xlarge </ instanceTy  pe >
        < memory > 16 </ memory >
        < nodeCount > 3 </ nodeCount >
        < payType > PostPaid </ payType >
        < status > NORMAL </ status >
        < systemDisk  Size > 200 </ systemDisk  Size >
        < systemDisk  Type > CLOUD_SSD </ systemDisk  Type >
        < vswitchId > vsw - bp161s00cr  yyb4bs1 ****</ vswitchId >
      </ hostGroupL  ist >
      < pageNumber > 1 </ pageNumber >
      < pageSize > 500 </ pageSize >
      < requestId > 9E395024 - CE21 - 42F7 - A777 - 69DD7AFFBE  1F </
 requestId >
   </ data >
   < success > true </ success >
</ ListCluste  rHostGroup  Response >
```

`JSON` format

```
{
 " data ":{
  " hostGroupL  ist ":[
   {
    " gmtModifie  d ":" 1564472889  000 ",
    " gmtCreate ":" 1564472329  000 ",
    " status ":" NORMAL ",
    " dataDiskTy  pe ":" CLOUD_SSD ",
    " cpu ": 4 ,
    " dataDiskCo  unt ": 4 ,
    " hostGroupI  d ":" G - EBAA5D6566  E7 ****",
    " hostGroupN  ame ":" Core_Group ",
    " dataDiskSi  ze ": 100 ,
    " memory ": 8 ,
    " instanceTy  pe ":" ecs . c5 . xlarge ",
    " systemDisk  Size ": 200 ,
    " systemDisk  Type ":" CLOUD_SSD ",
    " payType ":" PostPaid ",
    " vswitchId ":" vsw - bp161s00cr  yyb4bs1 ****",
    " chargeType ":" PostPaid ",
    " nodeCount ": 3 ,
    " hostGroupT  ype ":" CORE "
   },
   {
    " gmtModifie  d ":" 1564472889  000 ",
    " gmtCreate ":" 1564472329  000 ",
    " status ":" NORMAL ",
    " dataDiskTy  pe ":" CLOUD_SSD ",
    " cpu ": 4 ,
    " dataDiskCo  unt ": 3 ,
    " hostGroupI  d ":" G - 3379C5DEBA  14 ****",
    " hostGroupN  ame ":" Master_Gro  up ",
    " dataDiskSi  ze ": 500 ,
    " memory ": 16 ,
    " instanceTy  pe ":" ecs . g5 . xlarge ",
    " systemDisk  Size ": 200 ,
    " systemDisk  Type ":" CLOUD_SSD ",
    " payType ":" PostPaid ",
    " vswitchId ":" vsw - bp161s00cr  yyb4bs1 ****",
    " chargeType ":" PostPaid ",
    " nodeCount ": 3 ,
    " hostGroupT  ype ":" MASTER "
   }
  ],
```

```
  " requestId ":" 9E395024 - CE21 - 42F7 - A777 - 69DD7AFFBE  1F ",
  " pageSize ": 500 ,
  " pageNumber ": 1
 },
 " code ":" 200 ",
 " success ": true
}
```

Error codes

For more information about error codes, see API Error Center.

3.14 ListEmrAvailableConfig

You can call this operation to view available creation configurations of E-MapReduce clusters.

Request parameters

Parameter	Type	Required	Example	Description
AccessKeyId	String	Yes	LTAI8ljWyu7y ****	The AccessKey ID.
RegionId	String	Yes	cn-hangzhou	The region ID.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BF4FBAC6-B03E -4BFB-B6DB- EB53C34F2E22	The ID of the request.
EmrMainVersionList			The list of EMR versions.
RegionId	String	cn-hangzhou	The region ID.
MainVersionName	String	EMR-3.15.1	The main version.
EcmVersion	Boolean	true	A reserved parameter.
ClusterTypeInfoList			The list of cluster types.
ClusterType	String	HADOOP	The type of the cluster.
ClusterServiceInfoList			The list of services.

Parameter	Type	Example	Description
ServiceName	String	HIVE	The name of the service.
ServiceDisplayName	String	HIVE	The display name of the service.
ServiceVersion	String	2.3.3	The version of the service.
Mandatory	Boolean	true	Indicates whether the service is required.
SecurityGroupList			The list of security groups.
SecurityGroupId	String	sg-bp1j1n0xcwfs19y98b7n	The ID of the security group.
Description	String	sgdesc	The description of the security group.
SecurityGroupName	String	ziguansg	The name of the security group.
CreationTime	String	2018-12-03T10:11:55Z	The creation time of the cluster.
AvailableInstanceAmount	Integer	10	The number of available instances.
EcsCount	Integer	10	The number of ECS instances.
VpcInfoList			The list of VPCs.
VpcId	String	vpc-bp1d618azoa9go6wowjl2	The ID of the VPC.
VpcName	String	zgtest	The name of the VPC.
CidrBlock	String	192.168.0.0/16	The CIDR block.
VRouterId	String	0	A reserved parameter.
Description	String	vpc_desc	The description of the VPC.
VswitchInfoList			The information of the VSwitch.

Parameter	Type	Example	Description
VswitchId	String	vsw-bp18amcazibt1u0d8qqqa	The ID of the VSwitch.
VswitchName	String	hangzhou_g	The name of the VSwitch.
ZoneId	String	cn-hangzhou-g	The zone ID.
CidrBlock	String	192.168.0.0/24	The CIDR block.
AvailableIpAddressCount	Long	200	The number of available IP addresses.
Description	String	switch desc	The description of the VSwitch.
CreationTime	String	2018-11-22T07:38:49Z	The creation time of the VSwitch.
KeyPairNameList	String	["key_pair"]	The list of key pair names.

Examples

- Sample requests

```
/?  RegionId = cn - hangzhou
& AccessKeyI  d = LTAI8ljWyu  7y ****
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " code ":" 200 ",
 " data ":{
  " EmrMainVer  sionList ":{
   " EmrMainVer  sion ":[{
    " ClusterTyp  eInfoList ":{
     " ClusterTyp  eInfo ":[
      {
       " ClusterSer  viceInfoLi  st ":{
        " ClusterSer  viceInfo ":[
         {
          " Mandatory ": false ,
          " ServiceDis  playName ":" Livy ",
          " ServiceNam  e ":" LIVY ",
          " ServiceVer  sion ":" 0 . 5 . 0 "
         },
         {
          " Mandatory ": false ,
          " ServiceDis  playName ":" Superset ",
          " ServiceNam  e ":" SUPERSET ",
```

```
            " ServiceVer  sion ":" 0 . 27 . 0 "
           },
           {
            " Mandatory ": false ,
            " ServiceDis  playName ":" Ranger ",
            " ServiceNam  e ":" RANGER ",
            " ServiceVer  sion ":" 1 . 0 . 0 "
           },
           {
            " Mandatory ": false ,
            " ServiceDis  playName ":" Flink ",
            " ServiceNam  e ":" FLINK ",
            " ServiceVer  sion ":" 1 . 4 . 0 - 1 . 0 . 1 "
           },
           {
            " Mandatory ": true ,
            " ServiceDis  playName ":" Knox ",
            " ServiceNam  e ":" KNOX ",
            " ServiceVer  sion ":" 0 . 13 . 0 - 0 . 0 . 3 "
           },
           {
            " Mandatory ": true ,
            " ServiceDis  playName ":" ApacheDS ",
            " ServiceNam  e ":" APACHEDS ",
            " ServiceVer  sion ":" 2 . 0 . 0 "
           },
           {
            " Mandatory ": false ,
            " ServiceDis  playName ":" Storm ",
            " ServiceNam  e ":" STORM ",
            " ServiceVer  sion ":" 1 . 1 . 2 "
           },
           {
            " Mandatory ": true ,
            " ServiceDis  playName ":" Zeppelin ",
            " ServiceNam  e ":" ZEPPELIN ",
            " ServiceVer  sion ":" 0 . 8 . 0 "
           },
           {
            " Mandatory ": true ,
            " ServiceDis  playName ":" Hue ",
            " ServiceNam  e ":" HUE ",
            " ServiceVer  sion ":" 4 . 1 . 0 "
           },
           {
            " Mandatory ": true ,
            " ServiceDis  playName ":" Tez ",
            " ServiceNam  e ":" TEZ ",
            " ServiceVer  sion ":" 0 . 9 . 1 - 1 . 0 . 2 "
           },
           {
            " Mandatory ": true ,
            " ServiceDis  playName ":" Sqoop ",
            " ServiceNam  e ":" SQOOP ",
            " ServiceVer  sion ":" 1 . 4 . 7 - 1 . 0 . 0 "
           },
           {
            " Mandatory ": false ,
            " ServiceDis  playName ":" Phoenix ",
            " ServiceNam  e ":" PHOENIX ",
            " ServiceVer  sion ":" 4 . 10 . 0 - 1 . 0 . 0 "
           },
           {
            " Mandatory ": true ,
```

```
            " ServiceDis  playName ":" Pig ",
            " ServiceNam  e ":" PIG ",
            " ServiceVer  sion ":" 0 . 14 . 0 "
           },
           {
            " Mandatory ": true ,
            " ServiceDis  playName ":" Spark ",
            " ServiceNam  e ":" SPARK ",
            " ServiceVer  sion ":" 2 . 3 . 2 - 1 . 0 . 0 "
           },
           {
            " Mandatory ": false ,
            " ServiceDis  playName ":" HBase ",
            " ServiceNam  e ":" HBASE ",
            " ServiceVer  sion ":" 1 . 1 . 1 - 1 . 0 . 0 "
           },
           {
            " Mandatory ": true ,
            " ServiceDis  playName ":" Hive ",
            " ServiceNam  e ":" HIVE ",
            " ServiceVer  sion ":" 2 . 3 . 3 - 1 . 0 . 2 "
           },
           {
            " Mandatory ": true ,
            " ServiceDis  playName ":" YARN ",
            " ServiceNam  e ":" YARN ",
            " ServiceVer  sion ":" 2 . 7 . 2 - 1 . 3 . 1 "
           },
           {
            " Mandatory ": true ,
            " ServiceDis  playName ":" HDFS ",
            " ServiceNam  e ":" HDFS ",
            " ServiceVer  sion ":" 2 . 7 . 2 - 1 . 3 . 1 "
           },
           {
            " Mandatory ": false ,
            " ServiceDis  playName ":" ZooKeeper ",
            " ServiceNam  e ":" ZOOKEEPER ",
            " ServiceVer  sion ":" 3 . 4 . 13 "
           },
           {
            " Mandatory ": false ,
            " ServiceDis  playName ":" Oozie ",
            " ServiceNam  e ":" OOZIE ",
            " ServiceVer  sion ":" 4 . 2 . 0 "
           },
           {
            " Mandatory ": false ,
            " ServiceDis  playName ":" Presto ",
            " ServiceNam  e ":" PRESTO ",
            " ServiceVer  sion ":" 0 . 208 "
           },
           {
            " Mandatory ": false ,
            " ServiceDis  playName ":" Impala ",
            " ServiceNam  e ":" IMPALA ",
            " ServiceVer  sion ":" 2 . 10 . 0 - 1 . 0 . 0 "
           },
           {
            " Mandatory ": true ,
            " ServiceDis  playName ":" Ganglia ",
            " ServiceNam  e ":" GANGLIA ",
            " ServiceVer  sion ":" 3 . 7 . 2 "
           }
```

```
        ]
      },
      " ClusterTyp  e ":" HADOOP "
    },
    {
      " ClusterSer  viceInfoLi  st ":{
        " ClusterSer  viceInfo ":[
          {
            " Mandatory ": false ,
            " ServiceDis  playName ":" Superset ",
            " ServiceNam  e ":" SUPERSET ",
            " ServiceVer  sion ":" 0 . 27 . 0 "
          },
          {
            " Mandatory ": true ,
            " ServiceDis  playName ":" Druid ",
            " ServiceNam  e ":" DRUID ",
            " ServiceVer  sion ":" 0 . 12 . 3 - 1 . 0 . 0 "
          },
          {
            " Mandatory ": true ,
            " ServiceDis  playName ":" ApacheDS ",
            " ServiceNam  e ":" APACHEDS ",
            " ServiceVer  sion ":" 2 . 0 . 0 "
          },
          {
            " Mandatory ": false ,
            " ServiceDis  playName ":" YARN ",
            " ServiceNam  e ":" YARN ",
            " ServiceVer  sion ":" 2 . 7 . 2 - 1 . 3 . 1 "
          },
          {
            " Mandatory ": true ,
            " ServiceDis  playName ":" HDFS ",
            " ServiceNam  e ":" HDFS ",
            " ServiceVer  sion ":" 2 . 7 . 2 - 1 . 3 . 1 "
          },
          {
            " Mandatory ": true ,
            " ServiceDis  playName ":" ZooKeeper ",
            " ServiceNam  e ":" ZOOKEEPER ",
            " ServiceVer  sion ":" 3 . 4 . 13 "
          },
          {
            " Mandatory ": true ,
            " ServiceDis  playName ":" Ganglia ",
            " ServiceNam  e ":" GANGLIA ",
            " ServiceVer  sion ":" 3 . 7 . 2 "
          }
        ]
      },
      " ClusterTyp  e ":" DRUID "
    },
    {
      " ClusterSer  viceInfoLi  st ":{
        " ClusterSer  viceInfo ":[
          {
            " Mandatory ": true ,
            " ServiceDis  playName ":" Jupyter ",
            " ServiceNam  e ":" JUPYTER ",
            " ServiceVer  sion ":" 4 . 4 . 0 "
          },
          {
            " Mandatory ": true ,
```

```
            " ServiceDis  playName ":" Analytics   Zoo ",
            " ServiceNam  e ":" ANALYTICS - ZOO ",
            " ServiceVer  sion ":" 0 . 2 . 0 "
           },
           {
            " Mandatory ": true ,
            " ServiceDis  playName ":" ApacheDS ",
            " ServiceNam  e ":" APACHEDS ",
            " ServiceVer  sion ":" 2 . 0 . 0 "
           },
           {
            " Mandatory ": true ,
            " ServiceDis  playName ":" Tensorflow   on   YARN ",
            " ServiceNam  e ":" TENSORFLOW - ON - YARN ",
            " ServiceVer  sion ":" 1 . 0 . 0 "
           },
           {
            " Mandatory ": false ,
            " ServiceDis  playName ":" TensorFlow ",
            " ServiceNam  e ":" TENSORFLOW ",
            " ServiceVer  sion ":" 1 . 8 . 0 "
           },
           {
            " Mandatory ": true ,
            " ServiceDis  playName ":" Zeppelin ",
            " ServiceNam  e ":" ZEPPELIN ",
            " ServiceVer  sion ":" 0 . 8 . 0 "
           },
           {
            " Mandatory ": false ,
            " ServiceDis  playName ":" Hue ",
            " ServiceNam  e ":" HUE ",
            " ServiceVer  sion ":" 4 . 1 . 0 "
           },
           {
            " Mandatory ": true ,
            " ServiceDis  playName ":" Spark ",
            " ServiceNam  e ":" SPARK ",
            " ServiceVer  sion ":" 2 . 3 . 2 - 1 . 0 . 0 "
           },
           {
            " Mandatory ": false ,
            " ServiceDis  playName ":" Hive ",
            " ServiceNam  e ":" HIVE ",
            " ServiceVer  sion ":" 2 . 3 . 3 - 1 . 0 . 2 "
           },
           {
            " Mandatory ": true ,
            " ServiceDis  playName ":" YARN ",
            " ServiceNam  e ":" YARN ",
            " ServiceVer  sion ":" 2 . 7 . 2 - 1 . 3 . 1 "
           },
           {
            " Mandatory ": true ,
            " ServiceDis  playName ":" HDFS ",
            " ServiceNam  e ":" HDFS ",
            " ServiceVer  sion ":" 2 . 7 . 2 - 1 . 3 . 1 "
           },
           {
            " Mandatory ": true ,
            " ServiceDis  playName ":" ZooKeeper ",
            " ServiceNam  e ":" ZOOKEEPER ",
            " ServiceVer  sion ":" 3 . 4 . 13 "
           },
```

```
          {
           " Mandatory ": true ,
           " ServiceDis  playName ":" Ganglia ",
           " ServiceNam  e ":" GANGLIA ",
           " ServiceVer  sion ":" 3 . 7 . 2 "
          }
         ]
        },
        " ClusterTyp  e ":" DATA_SCIEN  CE "
       },
       {
        " ClusterSer  viceInfoLi  st ":{
         " ClusterSer  viceInfo ":[
          {
           " Mandatory ": false ,
           " ServiceDis  playName ":" Ranger ",
           " ServiceNam  e ":" RANGER ",
           " ServiceVer  sion ":" 1 . 0 . 0 "
          },
          {
           " Mandatory ": true ,
           " ServiceDis  playName ":" Kafka - Manager ",
           " ServiceNam  e ":" KAFKA - MANAGER ",
           " ServiceVer  sion ":" 1 . 3 . 3 . 16 - 1 . 1 . 0 "
          },
          {
           " Mandatory ": true ,
           " ServiceDis  playName ":" Kafka ",
           " ServiceNam  e ":" KAFKA ",
           " ServiceVer  sion ":" 2 . 11 - 1 . 1 . 0 - 1 . 0 . 0 "
          },
          {
           " Mandatory ": true ,
           " ServiceDis  playName ":" ZooKeeper ",
           " ServiceNam  e ":" ZOOKEEPER ",
           " ServiceVer  sion ":" 3 . 4 . 13 "
          },
          {
           " Mandatory ": true ,
           " ServiceDis  playName ":" Ganglia ",
           " ServiceNam  e ":" GANGLIA ",
           " ServiceVer  sion ":" 3 . 7 . 2 "
          }
         ]
        },
        " ClusterTyp  e ":" KAFKA "
       },
       {
        " ClusterSer  viceInfoLi  st ":{
         " ClusterSer  viceInfo ":[
          {
           " Mandatory ": true ,
           " ServiceDis  playName ":" ZooKeeper ",
           " ServiceNam  e ":" ZOOKEEPER ",
           " ServiceVer  sion ":" 3 . 4 . 13 "
          },
          {
           " Mandatory ": true ,
           " ServiceDis  playName ":" Ganglia ",
           " ServiceNam  e ":" GANGLIA ",
           " ServiceVer  sion ":" 3 . 7 . 2 "
          }
         ]
        },
```

```
      " ClusterTyp  e ":" ZOOKEEPER "
     }
    ]
   },
   " EcmVersion ": true ,
   " MainVersio  nName ":" EMR - 3 . 15 . 1 ",
   " RegionId ":" cn - hangzhou "
  }]
 },
 " KeyPairNam  eList ":{
  " KeyPairNam  e ":[
   " lr_test ",
   " zx "
  ]
 },
 " RequestId ":" BFA129D8 - 2D93 - 4B20 - 9883 - FBD9814835  85 ",
 " SecurityGr  oupList ":{
  " SecurityGr  oup ":[{
   " CreationTi  me ":" 2018 - 12 - 03T10 : 11 : 55Z ",
   " Descriptio  n ":"",
   " SecurityGr  oupId ":" sg - bp1j1n0xcw  fs19y98b7n ",
   " SecurityGr  oupName ":" ziguansg ",
   " VpcId ":" vpc - bp1d618azo  a9go6wowjl  2 "
  }]
 },
 " VpcInfoLis  t ":{
  " VpcInfo ":[
   {
    " CidrBlock ":" 192 . 168 . 0 . 0 / 16 ",
    " CreationTi  me ":" 2018 - 11 - 22T07 : 38 : 44Z ",
    " Descriptio  n ":"",
    " VpcId ":" vpc - bp1d618azo  a9go6wowjl  2 ",
    " VpcName ":" zgtest ",
    " VswitchInf  oList  ":{
     " VswitchInf  o ":[{
      " AvailableI  pAddressCo  unt ": 200 ,
      " CidrBlock ":" 192 . 168 . 0 . 0 / 24 ",
      " CreationTi  me ":" 2018 - 11 - 22T07 : 38 : 49Z ",
      " Descriptio  n ":"",
      " VpcId ":" vpc - bp1d618azo  a9go6wowjl  2 ",
      " VswitchId ":" vsw - bp18amcazi  bt1u0d8qqq  a ",
      " VswitchNam  e ":" hangzhou_g ",
      " ZoneId ":" cn - hangzhou - g "
     }]
    }
   },
   {
    " CidrBlock ":" 192 . 168 . 0 . 0 / 16 ",
    " CreationTi  me ":" 2018 - 04 - 02T07 : 46 : 16Z ",
    " Descriptio  n ":" ecm - admin - case - dedicated ",
    " VpcId ":" vpc - bp1t3gj276  98ijqq7xqp  g ",
    " VpcName ":" ecm - admin - case - dedicated ",
    " VswitchInf  oList ":{
     " VswitchInf  o ":[
      {
       " AvailableI  pAddressCo  unt ": 234 ,
       " CidrBlock ":" 192 . 168 . 100 . 0 / 24 ",
       " CreationTi  me ":" 2018 - 06 - 04T11 : 51 : 48Z ",
       " Descriptio  n ":"",
       " VpcId ":" vpc - bp1t3gj276  98ijqq7xqp  g ",
       " VswitchId ":" vsw - bp1eph7e1p  67a4pru99r  w ",
       " VswitchNam  e ":" xxx ",
       " ZoneId ":" cn - hangzhou - f "
      },
```

```
        {
         " AvailableI  pAddressCo  unt ": 236 ,
         " CidrBlock ":" 192 . 168 . 0 . 0 / 24 ",
         " CreationTi  me ":" 2018 - 04 - 02T07 : 46 : 21Z ",
         " Descriptio  n ":" ecm - admin - case - dedicated ",
         " VpcId ":" vpc - bp1t3gj276  98ijqq7xqp  g ",
         " VswitchId ":" vsw - bp1iyxwwox  qlyr6uebo1  b ",
         " VswitchNam  e ":" ecm - admin - case - dedicated ",
         " ZoneId ": " cn - hangzhou - b "
        }
       ]
      }
     }
    ]
   }
  },
  " requestId ":" BFA129D8 - 2D93 - 4B20 - 9883 - FBD9814835  85 ",
  " successRes  ponse ": true
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

3.15 ListEmrAvailableResource

You can call this operation to view the list of available resources.

Request parameters

Parameter	Type	Required	Example	Description
ClusterType	String	Yes	HADOOP	The type of the cluster.
DestinationResource	String	Yes	Zone	The target resource.
InstanceChargeType	String	Yes	PostPaid	The billing method.
RegionId	String	Yes	cn-hangzhou	The region ID.

Parameter	Type	Required	Example	Description
AccessKeyId	String	Yes	LTAI8ljWyu7y****	The AccessKey ID.
ClusterId	String	No	C-D7958B72E59BAB88	The ID of the cluster.
DataDiskType	String	No	cloud_ssd	The type of the data disk.
DepositType	String	No	HALF_MANAGED	The hosting type.
InstanceType	String	No	ecs.g5.xlarge	The instance type.
NetType	String	No	vpc	The type of the network.
SpotStrategy	String	No	SpotWithPriceLimit	The spot strategy. Valid values: NoSpot, SpotWithPriceLimit, and SpotAsPriceGo.
SystemDiskType	String	No	cloud_ssd	The type of system disk.
ZoneId	String	No	cn-hangzhou-b	The zone ID.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BF4FBAC6-B03E-4BFB-B6DB-EB53C34F2E22	The ID of the request.
RegionId	String	cn-hangzhou	The region ID.
EmrZoneInfoList			The list of zones.
ZoneId	String	cn-hangzhou-b	The zone ID.
EmrResourceInfoList			The list of resources.
Type	String	DataDisk	The type of the resource.

Parameter	Type	Example	Description
SupportedResourceList			The list of supported resource types.
Value	String	cloud_essd	The value of the Type parameter.
Min	Integer	40	The minimum supported value.
Max	Integer	32768	The maximum supported value.
Unit	String	GiB	The unit.
SupportNodeTypeList	String	["MASTER", “CORE”]	The list of supported node types.
EmrInstanceType			The supported ECS instance types.
InstanceType	String	ecs.g5.xlarge	The instance type.
CpuCoreCount	Integer	4	The number of vCPUs.
MemorySize	Integer	16	The memory size. Unit: gibibytes.
InstanceTypeFamily	String	ecs.g5	The instance type family.
LocalStorageCapacity	Long	80	The capacity of local disks.
LocalStorageAmount	Integer	2	The number of local disks.
LocalStorageCategory	String	local_ssd_pro	The type of local disks.
GPUAmount	Integer	1	The number of GPUs.
GPUSpec	String	NVIDIA P100	The GPU.
InitialCredit	Integer	0	A reserved parameter.

Parameter	Type	Example	Description
BaselineCredit	Integer	0	The baseline vCPU performance of burstable instances (sum of vCPUs).
EniQuantity	Integer	3	The number of ENIs .
InstanceBa ndwidthRx	Integer	1536000	A reserved parameter.
InstanceBa ndwidthTx	Integer	1536000	A reserved parameter.
InstancePpsRx	Long	500000	A reserved parameter.
InstancePpsTx	Long	500000	A reserved parameter.

Examples

- Sample requests

```
/?  ClusterTyp  e = HADOOP
& Destinatio  nResource = Zone
& InstanceCh  argeType = PostPaid
& RegionId = cn - hangzhou
& AccessKeyI  d = LTAI8ljWyu  7y ****
& ClusterId = C - D7958B72E5  9BAB88
& DataDiskTy  pe = cloud_ssd
& DepositTyp  e = HALF_MANAG  ED
& InstanceTy  pe = ecs . g5 . xlarge
& NetType = vpc
& SpotStrate  gy =
& SystemDisk  Type = cloud_ssd
& ZoneId = cn - hangzhou - b
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " emrZoneInf  oList ":[{
  " emrResourc  eInfoList ":[{
   " supportedR  esourceLis  t ":[
    {
     " emrInstanc  eType ":{
      " cpuCoreCou  nt ": 4 ,
      " eniQuantit  y ": 2 ,
      " gPUAmount ": 0 ,
      " gPUSpec ":"",
      " instanceBa  ndwidthRx ": 819200 ,
      " instanceBa  ndwidthTx ": 819200 ,
```

```
      " instancePp  sRx ": 150000 ,
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      " cpuCoreCou  nt ": 8 ,
      " eniQuantit  y ": 2 ,
      " gPUAmount ": 0 ,
      " gPUSpec ":"",
      " instanceBa  ndwidthRx ": 1228800 ,
```

```
      " instanceBa  ndwidthTx ": 1228800 ,
      " instancePp  sRx ": 300000 ,
      " instancePp  sTx ": 300000 ,
      " instanceTy  pe ":" ecs . n4 . 2xlarge ",
      " instanceTy  peFamily ":" ecs . n4 ",
      " localStora  geCategory ":"",
      " memorySize ": 16
     },
     " supportNod  eTypeList ":[
      " CORE ",
      " MASTER ",
      " TASK ",
      " GATEWAY "
     ],
     " value ":" ecs . n4 . 2xlarge ",
     " value1 ":" ecs . n4 . 2xlarge "
    },
    {
     " emrInstanc  eType ":{
      " cpuCoreCou  nt ": 32 ,
      " eniQuantit  y ": 8 ,
      " gPUAmount ": 0 ,
      " gPUSpec ":"",
      " instanceBa  ndwidthRx ": 6144000 ,
      " instanceBa  ndwidthTx ": 6144000 ,
      " instancePp  sRx ": 2500000 ,
      " instancePp  sTx ": 2500000 ,
      " instanceTy  pe ":" ecs . sn1ne .  8xlarge ",
      " instanceTy  peFamily ":" ecs . sn1ne ",
      " localStora  geCategory ":"",
      " memorySize ": 64
     },
     " supportNod  eTypeList ":[
      " CORE ",
      " MASTER ",
      " TASK ",
      " GATEWAY "
     ],
     " value ":" ecs . sn1ne .  8xlarge ",
     " value1 ":" ecs . sn1ne .  8xlarge "
    },
    {
     " emrInstanc  eType ":{
      " cpuCoreCou  nt ": 16 ,
      " eniQuantit  y ": 8 ,
      " gPUAmount ": 0 ,
      " gPUSpec ":"",
      " instanceBa  ndwidthRx ": 3072000 ,
      " instanceBa  ndwidthTx ": 3072000 ,
      " instancePp  sRx ": 500000 ,
      " instancePp  sTx ": 500000 ,
      " instanceTy  pe ":" ecs . sn1 . 3xlarge ",
      " instanceTy  peFamily ":" ecs . sn1 ",
      " localStora  geCategory ":"",
      " memorySize ": 32
     },
     " supportNod  eTypeList ":[
      " CORE ",
      " MASTER ",
      " TASK ",
      " GATEWAY "
     ],
     " value ":" ecs . sn1 . 3xlarge ",
     " value1 ":" ecs . sn1 . 3xlarge "
```

```
    },
    {
     " emrInstanc  eType ":{
      " cpuCoreCou  nt ": 16 ,
      " eniQuantit  y ": 8 ,
      " gPUAmount ": 0 ,
      " gPUSpec ":"",
      " instanceBa  ndwidthRx ": 3072000 ,
      " instanceBa  ndwidthTx ": 3072000 ,
      " instancePp  sRx ": 1600000 ,
      " instancePp  sTx ": 1600000 ,
      " instanceTy  pe ":" ecs . sn1ne .  4xlarge ",
      " instanceTy  peFamily ":" ecs . sn1ne ",
      " localStora  geCategory ":"",
      " memorySize ": 32
     },
     " supportNod  eTypeList ":[
      " CORE ",
      " MASTER ",
      " TASK ",
      " GATEWAY "
     ],
     " value ":" ecs . sn1ne .  4xlarge ",
     " value1 ":" ecs . sn1ne .  4xlarge "
    },
    {
     " emrInstanc  eType ":{
      " cpuCoreCou  nt ": 4 ,
      " eniQuantit  y ": 3 ,
      " gPUAmount ": 0 ,
      " gPUSpec ":"",
      " instanceBa  ndwidthRx ": 1536000 ,
      " instanceBa  ndwidthTx ": 1536000 ,
      " instancePp  sRx ": 500000 ,
      " instancePp  sTx ": 500000 ,
      " instanceTy  pe ":" ecs . sn1ne . xlarge ",
      " instanceTy  peFamily ":" ecs . sn1ne ",
      " localStora  geCategory ":"",
      " memorySize ": 8
     },
     " supportNod  eTypeList ":[
      " CORE ",
      " MASTER ",
      " TASK ",
      " GATEWAY "
     ],
     " value ":" ecs . sn1ne . xlarge ",
     " value1 ":" ecs . sn1ne . xlarge "
    },
    {
     " emrInstanc  eType ":{
      " cpuCoreCou  nt ": 16 ,
      " eniQuantit  y ": 8 ,
      " gPUAmount ": 0 ,
      " gPUSpec ":"",
      " instanceBa  ndwidthRx ": 2560000 ,
      " instanceBa  ndwidthTx ": 2560000 ,
      " instancePp  sRx ": 400000 ,
      " instancePp  sTx ": 400000 ,
      " instanceTy  pe ":" ecs . mn4 . 4xlarge ",
      " instanceTy  peFamily ":" ecs . mn4 ",
      " localStora  geCategory ":"",
      " memorySize ": 64
     },
```

```
      " supportNod  eTypeList ":[
       " CORE ",
       " MASTER ",
       " TASK ",
       " GATEWAY "
      ],
      " value ":" ecs . mn4 . 4xlarge ",
      " value1 ":" ecs . mn4 . 4xlarge "
     }
    ],
    " type ":" InstanceTy  pe "
   }],
   " zoneId ":" cn - hangzhou - b "
  }],
  " regionId ":" cn - hangzhou ",
  " requestId ":" A3239C3B - 641F - 4082 - B5A1 - AE2362CBCC  D7 "
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

3.16 ListEmrMainVersion

You can call this operation to view the versions of EMR.

Request parameters

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-hangzhou	The region ID.
AccessKeyId	String	Yes	LTAI8ljWyu7y ****	The AccessKey ID.
EmrVersion	String	No	EMR-3.15.0	The version of EMR.
PageNumber	Integer	No	1	The page number. The minimum value is 1.

Parameter	Type	Required	Example	Description
PageSize	Integer	No	10	The number of records that are displayed on each page.
StackName	String	No	EMR	The name of the software stack.
StackVersion	String	No	3.15.1.1.0	The version of the software stack.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BF4FBAC6-B03E-4BFB-B6DB-EB53C34F2E22	The ID of the request.
TotalCount	Integer	12	The total number of records.
PageNumber	Integer	1	The page number.
PageSize	Integer	10	The number of records that are displayed on each page.
EmrMainVersionList			The list of EMR versions.
RegionId	String	cn-hangzhou	The region ID.
EmrVersion	String	EMR-3.16.0	The version of EMR.
EcmVersion	Boolean	True	
ImageId	String	m-bp1hdwryap03nxpl1rcd	The ID of the image.
Display	Boolean	true	Indicates whether the version is open to the public.
StackName	String	""	A reserved parameter.

Parameter	Type	Example	Description
StackVersion	String	""	A reserved parameter.
ClusterTypeInfoList			The list of cluster types.
ClusterType	String	HADOOP	The type pf the cluster.
ServiceInfoList			The list of services.
ServiceName	String	HIVE	The name of the services.
ServiceDisplayName	String	HIVE	The display name of the service.
ServiceVersion	String	2.3.3.0.1	The internal version of the service.
ServiceDisplayVersion	Integer	2.3.3	The display version of the service.
Mandatory	Boolean	true	
Display	Boolean	true	Indicates whether the version is displayed.
WhiteUserList	String	""	A reserved parameter.

Examples

- Sample requests

```
/?  RegionId = cn - hangzhou
& AccessKeyI  d = LTAI8ljWyu  7y ****
& EmrVersion = EMR - 3 . 15 . 0
& PageNumber = 1
& PageSize = 10
& StackName = EMR
& StackVersi  on = 3 . 15 . 1 . 1 . 0
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
    " emrMainVer  sionList ":[
        {
```

```
            " clusterTyp  eInfoList ":[],
            " display ": false ,
            " ecmVersion ": true ,
            " emrVersion ":" EMR - 3 . 16 . 0 ",
            " imageId ":" m - bp1amnkvoh  r8eb6wud0f ",
            " regionId ":" cn - hangzhou ",
            " stackName ":" EMR ",
            " stackVersi  on ":" 3 . 16 . 0 . 1 . 2 ",
            " whiteUserL  ist ":[]
        },
        {
            " clusterTyp  eInfoList ":[],
            " display ": false ,
            " ecmVersion ": true ,
            " emrVersion ":" EMR - 3 . 16 . 1 ",
            " imageId ":" m - bp1amnkvoh  r8eb6wud0f ",
            " regionId ":" cn - hangzhou ",
            " stackName ":" EMR ",
            " stackVersi  on ":" 3 . 16 . 0 . 1 . 3 ",
            " whiteUserL  ist ":[]
        },
        {
            " clusterTyp  eInfoList ":[],
            " display ": false ,
            " ecmVersion ": true ,
            " emrVersion ":" EMR - 3 . 15 . 1 ",
            " imageId ":" m - bp1ddn41sw  c2fqjgj3ik ",
            " regionId ":" cn - hangzhou ",
            " stackName ":" EMR ",
            " stackVersi  on ":" 3 . 15 . 1 . 1 . 0 ",
            " whiteUserL  ist ":[]
        },
        {
            " clusterTyp  eInfoList ":[],
            " display ": false ,
            " ecmVersion ": true ,
            " emrVersion ":" EMR - 3 . 15 . 2 ",
            " imageId ":" m - bp1hdwryap  03nxpl1rcd ",
            " regionId ":" cn - hangzhou ",
            " stackName ":" EMR ",
            " stackVersi  on ":" 3 . 15 . 1 . 1 . 0 ",
            " whiteUserL  ist ":[]
        },
        {
            " clusterTyp  eInfoList ":[],
            " display ": false ,
            " ecmVersion ": true ,
            " emrVersion ":" EMR - 3 . 15 . 3 ",
            " imageId ":" m - bp1hdwryap  03nxpl1rcd ",
            " regionId ":" cn - hangzhou ",
            " stackName ":" EMR ",
            " stackVersi  on ":" 3 . 15 . 1 . 1 . 0 ",
            " whiteUserL  ist ":[]
        }
    ],
    " pageNumber ": 1 ,
    " pageSize ": 5 ,
    " requestId ":" D835118F - 3198 - 461E - B06E - 7A73C4353F  59
",
    " totalCount ": 140
```

```
}
```

- Error response examples

  JSON format

```
{
    " code ":" RAM . Permission . NotAllow ",
    " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
    " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A
 ",
    " successRes  ponse ": false
}
```

Error codes

View error codes.

3.17 ModifyClusterTemplate

You can call this operation to modify a cluster template.

Request parameters

Parameter	Type	Required	Example	Description
BizId	String	Yes	CT-4A6799A79D73385B	The ID of the cluster template.
ClusterType	String	Yes	HADOOP	The type of the cluster.
EmrVer	String	Yes	EMR-3.15.0	The version of EMR.
RegionId	String	Yes	cn-hangzhou	The region ID.
TemplateName	String	Yes	new_template_name	The name of the cluster template.
AccessKeyId	String	Yes	LTAI8ljWyu7y****	The AccessKey ID.
AutoRenew	Boolean	No	false	Indicates whether the subscription cluster is automatically renewed.

Parameter	Type	Required	Example	Description
BootstrapAction.N.Arg	String	No	--a	The argument that you pass into the bootstrap action.
BootstrapAction.N.Name	String	No	action_name	The name of the bootstrap action.
BootstrapAction.N.Path	String	No	oss://bucket/path	The path where the bootstrap action script is stored.
ChargeType	String	No	PostPaid	The billing method.
Config.N.ConfigKey	String	No	fs.trash.interval	The key of the custom configuration item.
Config.N.ConfigValue	String	No	60	The value of the custom configuration item.
Config.N.Encrypt	String	No	0	A reserved parameter. Not required.
Config.N.FileName	String	No	yarn-site	The name of the file that contains the custom configuration item.
Config.N.Replace	String	No	0	A reserved parameter. Not required.

Parameter	Type	Required	Example	Description
Config.N.ServiceName	String	No	YARN	The name (capitalized) of the service that is configured by using the custom configuration item.
Configurations	String	No	[{"classification": "core-site","properties": {"fs.trash.interval": "61"}},{"classification": "hadoop-log4j","properties": {"hadoop.log.file": "hadoop1.log","hadoop.root.logger": "INFO","a.b.c": "ABC"}}]	Custom software configuration. Before a cluster starts, you can specify a JSON file and modify software configuration.
DepositType	String	No	HALF_MANAGED	The hosting type.
EasEnable	Boolean	No	true	Indicates whether the cluster is a high-security cluster.
HighAvailabilityEnable	Boolean	No	true	Indicates whether the cluster is a high-availability cluster.
HostGroup.N.AutoRenew	Boolean	No	true	Indicates whether the host group is automatically renewed.

Parameter	Type	Required	Example	Description
HostGroup.N.ChargeType	String	No	PostPaid	The billing method.
HostGroup.N.ClusterId	String	No	0	A reserved parameter.
HostGroup.N.Comment	String	No	comment	A reserved parameter.
HostGroup.N.CreateType	String	No	ON_DEMAND	A reserved parameter.
HostGroup.N.DiskCapacity	Integer	No	80	The data disk capacity of the host group.
HostGroup.N.DiskCount	Integer	No	4	The data disk number of the host group.
HostGroup.N.DiskType	String	No	CLOUD_SSD	The data disk type of the host group.
HostGroup.N.HostGroupId	String	No	0	A reserved parameter.
HostGroup.N.HostGroupName	String	No	Master instance group	The name of the host group.
HostGroup.N.HostGroupType	String	No	MASTER	The type of the host group.
HostGroup.N.InstanceType	String	No	ecs.mn4.2xlarge	The instance type of the host group.
HostGroup.N.MultiInstanceTypes	String	No	ecs.sn1.xlarge, ecs.sn2.xlarge	The instance types, separated with commas (,).
HostGroup.N.NodeCount	Integer	No	4	The number of nodes in the host group.

Parameter	Type	Required	Example	Description
HostGroup.N.Period	Integer	No	36	The length of the subscription. Unit: months. Valid values: 1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 24, and 36.
HostGroup.N.SysDiskCapacity	Integer	No	80	The system disk capacity of the host group.
HostGroup.N.SysDiskType	String	No	CLOUD_SSD	The system disk type of the host group.
HostGroup.N.VSwitchId	String	No	vsw-bp10tvjyc77psy0z5h0ni	The ID of the VSwitch.
InitCustomHiveMetaDb	Boolean	No	false	A reserved parameter. Not required.
InstanceGeneration	String	No	ecs-3	The generation of ECS instances.
IoOptimized	Boolean	No	true	Indicates whether I/O optimization is enabled.
IsOpenPublicIp	Boolean	No	true	Indicates whether the public IP address is used.
LogPath	String	No	oss//bucketname/path	The log path in OSS.
MachineType	String	No	ECS	The type of the hosts.

Parameter	Type	Required	Example	Description
MasterPwd	String	No	pwd	The SSH password used to connect to the master node.
NetType	String	Yes	vpc	The type of the network.
OptionSoftWareList	RepeatList	No	["ZOOKEEPER","LIVY"]	The list of optional services.
Period	Integer	No	36	The length of the subscription. Unit: months. Valid values: 1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 24, and 36.
SecurityGroupId	String	No	sg-bp1id7ajv83kmqwq2isx	The ID of the security group.
SecurityGroupName	String	No	emr_sg	The name of the security group,
SshEnable	Boolean	No	true	Indicates whether SSH is enabled.
UseCustomHiveMetaDb	Boolean	No	false	false
UseLocalMetaDb	Boolean	No	true	Indicates whether to use the local Hive metadatabase.
UserDefinedEmrEcsRole	String	No	AliyunEmrEcsDefaultRole	The role that is assigned to EMR for calling ECS resources.
VSwitchId	String	No	vsw-bp10tvjyc77psy0z5h0ni	The ID of the VSwitch.

Parameter	Type	Required	Example	Description
VpcId	String	No	vpc-bp1l4urd87xlh7i4bju4h	The ID of the VPC.
ZoneId	String	No	cn-hangzhou-b	The zone ID.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BF4FBAC6-B03E-4BFB-B6DB-EB53C34F2E22	The ID of the request.
ClusterTemplateId	String	CT-4A6799A79D73385B	The ID of the cluster template.

Examples

- **Sample requests**

```
/?  BizId = CT - 4A6799A79D  73385B
& ClusterTyp  e = HADOOP
& EmrVer = EMR - 3 . 15 . 0
& RegionId = cn - hangzhou
& TemplateNa  me = new_templa  te_name
& AccessKeyI  d = LTAI8ljWyu  7y ****
& AutoRenew = false
& ChargeType = PostPaid
& Configurat  ions =
& DepositTyp  e = HALF_MANAG  ED
& EasEnable = true
& HighAvaila  bilityEnab  le = true
& InitCustom  HiveMetaDb =
& InstanceGe  neration =
& IoOptimize  d = true
& IsOpenPubl  icIp = true
& LogPath = oss // bucketname / path
& MachineTyp  e = ECS
& MasterPwd = pwd
& NetType = vpc
& OptionSoft  WareList .  1 =[" ZOOKEEPER "," LIVY "]
& Period = 36
& SecurityGr  oupId = sg - bp1id7ajv8  3kmqwq2isx
& SecurityGr  oupName = emr_sg
& SshEnable = true
& UseCustomH  iveMetaDb =
& UseLocalMe  taDb = true
& UserDefine  dEmrEcsRol  e = AliyunEmrE  csDefaultR  ole
& VpcId = vpc - bp1l4urd87  xlh7i4bju4  h
& VSwitchId = vsw - bp10tvjyc7  7psy0z5h0n  i
& ZoneId = cn - hangzhou - b
& BootstrapA  ction .  1 . Arg =
& BootstrapA  ction .  1 . 1ame =
& BootstrapA  ction .  1 . Path =
& Config .  1 . ConfigKey =
& Config .  1 . ConfigValu  e =
```

```
& Config .  1 . Encrypt =
& Config .  1 . FileName =
& Config .  1 . Replace =
& Config .  1 . ServiceNam  e =
& HostGroup .  1 . AutoRenew = true
& HostGroup .  1 . ChargeType = PostPaid
& HostGroup .  1 . ClusterId =
& HostGroup .  1 . Comment =
& HostGroup .  1 . CreateType =
& HostGroup .  1 . DiskCapaci  ty = 80
& HostGroup .  1 . DiskCount = 4
& HostGroup .  1 . DiskType = CLOUD_SSD
& HostGroup .  1 . HostGroupI  d =
& HostGroup .  1 . HostGroupN  ame = Master   instance   group
& HostGroup .  1 . HostGroupT  ype = MASTER
& HostGroup .  1 . InstanceTy  pe = ecs . mn4 . 2xlarge
& HostGroup .  1 . MultiInsta  nceTypes =
& HostGroup .  1 . 1odeCount = 4
& HostGroup .  1 . Period = 36
& HostGroup .  1 . SysDiskCap  acity = 80
& HostGroup .  1 . SysDiskTyp  e = CLOUD_SSD
& HostGroup .  1 . VSwitchId = vsw - bp10tvjyc7  7psy0z5h0n  i
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
 " RequestId ":" 5EDD1207 - 5DAB - 42F9 - 9BF9 - 7591286A8F  3F "
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

3.18 ModifyClusterName

You can call this operation to modify the name of a cluster.

Request parameters

Parameter	Type	Required	Example	Description
Id	String	Yes	C-D7958B72E59BAB88	The ID of the cluster.
Name	String	Yes	bi_hadoop	The new name of the cluster. The same naming rules for creating the cluster are required. Length constraints: Minimum length of 1 character. Maximum length of 64 characters. Only Chinese characters, letters, numbers, hyphens (-), and underscores (_) are allowed.
RegionId	String	Yes	cn-hangzhou	The region ID.
AccessKeyId	String	Yes	LTAI8ljWyu7y****	The AccessKey ID.

Response parameters

Parameter	Type	Example	Description
RequestId	String	588E7707-D8C8-4618-9B74-FE54B6903A9A	The ID of the request.

Examples

- **Sample requests**

```
 https :// emr . aliyuncs . com /? Action = ModifyClus  terName
& AccessKeyI  d = LTAI8ljWyu  7y ****
& Id = C - 13A570B821  D4BAB3
& Name = bi_hadoop
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

- **Sample responses**

  JSON format

```
{
    " RequestId ": " 588E7707 - D8C8 - 4618 - 9B74 - FE54B6903A  9A
 "
}
```

3.19 ReleaseCluster

You can call this operation to release a cluster.

Request parameters

Parameter	Type	Required	Example	Description
Id	String	Yes	C-D7958B72E59BAB88	The ID of the cluster.
RegionId	String	Yes	cn-hangzhou	The region ID.
AccessKeyId	String	Yes	LTAI8ljWyu7y****	The AccessKey ID.

Parameter	Type	Required	Example	Description
ForceRelease	Boolean	No	true	When you release a cluster and if you have enabled the logging feature, the system needs a few minutes to upload the logs to OSS. You can select Force Release to release the cluster without uploading logs.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BF4FBAC6-B03E-4BFB-B6DB-EB53C34F2E22	The ID of the request.

Examples

- Sample requests

```
/?  Id = C - D7958B72E5  9BAB88
& RegionId = cn - hangzhou
& AccessKeyI  d = LTAI8ljWyu  7y ****
& ForceRelea  se = true
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " RequestId ":" 1BD8FE28 - 82AC - 4433 - 848A - 37B4928430  C4 "
}
```

- Error response examples

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
```

```
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

3.20 ResizeClusterV2

You can call this operation to scale out a cluster based on the configuration.

Request parameters

Parameter	Type	Required	Example	Description
ClusterId	String	Yes	C-D7958B72E59BAB88	The ID of the cluster.
RegionId	String	Yes	cn-hangzhou	The region ID.
AccessKeyId	String	Yes	LTAI8ljWyu7y****	The AccessKey ID.
HostGroup.N.AutoRenew	Boolean	No	false	Indicates whether the host group is automatically renewed.
HostGroup.N.ChargeType	String	No	PostPaid	The billing method for the host group.
HostGroup.N.ClusterId	String	No	C-D7958B72E59BAB88	The ID of the cluster to be scaled out.
HostGroup.N.Comment	String	No	0	A reserved parameter.
HostGroup.N.CreateType	String	No	0	A reserved parameter.
HostGroup.N.DiskCapacity	Integer	No	120	The data disk capacity of the host group.

Parameter	Type	Required	Example	Description
HostGroup.N.DiskCount	Integer	No	4	The data disk number of the host group.
HostGroup.N.DiskType	String	No	CLOUD_SSD	The type of the data disk.
HostGroup.N.HostGroupId	String	No	G-48E83B43E97111BE	The ID of the host group used to scale out the cluster.
HostGroup.N.HostGroupName	String	No	Task Instance Group	The name of the host group.
HostGroup.N.HostGroupType	String	No	TASK	The type of the host group.
HostGroup.N.HostKeyPairName	String	No	test-pair	The key pair name of the host group. Currently, only gateways are supported.
HostGroup.N.HostPassword	String	No	pwd	The password of the host. Currently, only gateways are supported.
HostGroup.N.InstanceType	String	No	ecs.mn4.2xlarge	The instance type of the host group.
HostGroup.N.NodeCount	Integer	No	1	The number of nodes in the host group.
HostGroup.N.Period	Integer	No	1	The length of the subscription. Unit: months. Valid values: 1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 24, and 36.

Parameter	Type	Required	Example	Description
HostGroup.N.SysDiskCapacity	Integer	No	120	The capacity of the system disk.
HostGroup.N.SysDiskType	String	No	SSD_CLOUD	The type of the system disk.
HostGroup.N.VswitchId	Integer	No	0	The ID of the VSwitch in the host group.
VswitchId	String	No	vsw-bp10tvjyc77psy0z5h0ni	The ID of the VSwitch.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BF4FBAC6-B03E-4BFB-B6DB-EB53C34F2E22	The ID of the request.
ClusterId	String	C-D7958B72E59BAB88	The ID of the cluster.

Examples

- Sample requests

```
/?  ClusterId = C - D7958B72E5  9BAB88
& RegionId = cn - hangzhou
& AccessKeyI  d = LTAI8ljWyu  7y ****
& VswitchId = vsw - bp10tvjyc7  7psy0z5h0n  i
& HostGroup .  1 . AutoRenew =
& HostGroup .  1 . ChargeType = PostPaid
& HostGroup .  1 . ClusterId =
& HostGroup .  1 . Comment =
& HostGroup .  1 . CreateType =
& HostGroup .  1 . DiskCapaci  ty = 120
& HostGroup .  1 . DiskCount = 4
& HostGroup .  1 . DiskType = CLOUD_SSD
& HostGroup .  1 . HostGroupI  d =
& HostGroup .  1 . HostGroupN  ame = Task   instance   group
& HostGroup .  1 . HostGroupT  ype = TASK
& HostGroup .  1 . HostKeyPai  rName =
& HostGroup .  1 . HostPasswo  rd =
& HostGroup .  1 . InstanceTy  pe = ecs . mn4 . 2xlarge
& HostGroup .  1 . 1odeCount = 1
& HostGroup .  1 . Period = 1
& HostGroup .  1 . SysDiskCap  acity =
& HostGroup .  1 . SysDiskTyp  e =
& HostGroup .  1 . VswitchId =
```

```
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
 " ClusterId ":" C - D7958B72E5  9BAB88 ",
 " RequestId ":" BF4FBAC6 - B03E - 4BFB - B6DB - EB53C34F2E  22 "
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

4 Cluster services

4.1 AddClusterService

You can call this operation to add a service for a specified cluster.

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-D7958B72E59BAB88	The cluster ID.
RegionId	String	Yes	cn-hangzhou	The region location ID.
AccessKeyId	String	No	LTAI8ljWyu7yj9yG	The AccessKey ID.
Comment	String	No	addService	The comment of the service adding.
Service.N.ServiceName	String	Yes	HDFS	The service to add. Sample values: HDFS and YARN.

Response parameters

Name	Type	Example	Description
RequestId	String	EBB4D49C-4064-4818-B3AE-4C6BE5FC8264	The request ID.

Examples

- Sample requests

```
/?  ClusterId = C - F32FB31D82  954C64
& RegionId = cn - hangzhou
& AccessKeyI  d = xxx
& Comment = addService
& Service .  1   ServiceNam  e = HDFS
```

```
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
    " requestId ":" EBB4D49C - 4064 - 4818 - B3AE - 4C6BE5FC82  64 "
}
```

- Error response examples

  JSON format

```
{
    " code ":" RAM . Permission . NotAllow ",
    " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
    " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A
 ",
    " successRes  ponse ": false
}
```

Error codes

View error codes.

4.2 CreateResourcePool

You can call this operation to create a YARN resource pool.

Request parameters

Name	Type	Required	Example	Description
Active	Boolean	Yes	true	Indicates whether the resource pool is activated.
ClusterId	String	Yes	C-0E995C0EE7E5ECB3	The cluster ID.
Name	String	Yes	default	The name of the resource pool.

Name	Type	Required	Example	Description
PoolType	String	Yes	CAPACITY_SCHEDULER	The type of the resource pool. Valid values: CAPACITY_SCHEDULER and FAIR_SCHEDULER.
RegionId	String	Yes	cn-hangzhou	The region location ID.
AccessKeyId	String	No	xxx	The AccessKey ID.
Config.N.Category	String	No	DEFAULT_SETTINGS	The type of the configuration type. Valid values: DEFAULT_SETTINGS, ACCESS_CONTROL_SETTINGS, QUEUE_RESOURCE_LIMIT, QUEUE_SCHEDULING_POLICY, QUEUE_PREEMPTION, QUEUE_SUBMISSION_ACCESS_CONTROL, and QUEUE_ADMINISTRATION_ACCESS_CONTROL.
Config.N.ConfigKey	String	No	capacity	The key of the configuration item.
Config.N.ConfigValue	String	No	100	The key of the configuration item.

Name	Type	Required	Example	Description
Config.N.Note	String	No	capacity weight	The note of the configuration item.
Config.N.TargetId	String	No	test	The parameter is disused. The value cannot be empty.
Config.N.configType	String	No	RESOURCE_POOL_CONFIG	The type of the configuration item. Enter RESOURCE_POOL_CONFIG.
Note	String	No	default resource pool	The notes.
YarnSiteConfig	String	No	configList	The configuration item in the yarn-site file.

Response parameters

Name	Type	Example	Description
RequestId	String	A544317F-4A60-4532-AC96-191B9D80420AF	The request ID.

Examples

- Sample requests

```
/?  Active = true
& ClusterId = C - 0E995C0EE7  E5ECB3
& Name = default
& PoolType = CAPACITY_S  CHEDULER
& RegionId = cn - hangzhou
& AccessKeyI  d = xxx
& Note = default   resource   pool
& YarnSiteCo  nfig =
& Config .  1 .  Category = DEFAULT_SE  TTINGS
& Config .  1 .  ConfigKey = capacity
& Config .  1 . configType = RESOURCE_P  OOL_CONFIG
& Config .  1 .  ConfigValu  e = 100
& Config .  1 . 1ote = capacity   weight
& Config .  1 .  TargetId =
```

```
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " code ":" 200 ",
 " requestId ":" A544317F - 4A60 - 4532 - AC96 - 191B9D8042  0A ",
 " successRes  ponse ": true
}
```

- Error response examples

  JSON format

```
{
 " code ":" AuthRealNa  meNotPass ",
 " message ":" User   real   name   authentica  te   failed !",
 " requestId ":" A544317F - 4A60 - 4532 - AC96 - 191B9D8042  0AF ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

4.3 CreateResourceQueue

You can call this operation to create a resource queue.

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-0E995C0EE7E5ECB3	The cluster ID.
Name	String	Yes	DefaultQueue	The name of the queue.
RegionId	String	Yes	cn-hangzhou	The region location ID.
ResourcePoolId	Long	Yes	115	The ID of the resource pool.
AccessKeyId	String	No	xxx	The AccessKey ID.
Config.N.Category	String	No	QUEUE_RESOURCE_LIMIT	The category of the configuration item.

Name	Type	Required	Example	Description
Config.N.ConfigKey	String	No	capacity	The key of the configuration item.
Config.N.ConfigValue	String	No	100	The value of the configurat ion item.
Config.N.Note	String	No	capacity weight	The note of the configuration item.
Leaf	Boolean	No	false	Indicates whether the node is a leaf node.
ParentQueueId	Long	No	225	The ID of the parent resource pool.
QualifiedName	String	No	test	Not required to be specified.

Response parameters

Name	Type	Example	Description
RequestId	String	A544317F-4A60-4532-AC96-191B9D80420AF	The request ID.

Examples

- Sample requests

```
/?  ClusterId = C - 0E995C0EE7  E5ECB3
& Name = DefaultQue  ue
& RegionId = cn - hangzhou
& ResourcePo  olId = 115
& AccessKeyI  d = xxx
& Leaf = false
& ParentQueu  eId = 225
& QualifiedN  ame =
& Config .  1 .  Category = QUEUE_RESO  URCE_LIMIT
& Config .  1 .  ConfigKey = capacity
& Config .  1 .  ConfigValu  e = 100
& Config .  1 . note = capacity   weight
```

```
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " code ":" 200 ",
 " requestId ":" A544317F - 4A60 - 4532 - AC96 - 191B9D8042  0A ",
 " successRes  ponse ": true
}
```

- Error response examples

  JSON format

```
{
 " code ":" AuthRealNa  meNotPass ",
 " message ":" User   real   name   authentica  te   failed !",
 " requestId ":" A544317F - 4A60 - 4532 - AC96 - 191B9D8042  0AF ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

4.4 DeleteResourcePool

You can call this operation to delete a resource pool.

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-0E995C0EE7E5ECB3	The cluster ID.
RegionId	String	Yes	cn-hangzhou	The region location ID.
ResourcePoolId	Long	Yes	115	The ID of the resource pool.
AccessKeyId	String	No	xxx	The AccessKey ID.

Response parameters

Name	Type	Example	Description
RequestId	String	A544317F-4A60-4532-AC96-191B9D80420AF	The request ID.

Examples

- **Sample requests**

```
/?  Action = DeleteReso  urcePool
& ClusterId = C - EBD62A703A  430E23
& RegionId = cn - hangzhou
& ResourcePo  olId = 115
& AccessKeyI  d =
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
 " code ":" 200 ",
 " requestId ":" A544317F - 4A60 - 4532 - AC96 - 191B9D8042  0A ",
 " successRes  ponse ": true
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" 4009 ",
 " message ":" The   User   Account   maybe   is   out   of
 service !",
 " requestId ":" 7DF74E3B - 5BEA - 4365 - 8E67 - 4FD9509592  4F ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

4.5 DeleteResourceQueue

You can call this operation to delete a resource queue.

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-0E995C0EE7E5ECB3	The ID of the cluster.
RegionId	String	Yes	cn-hangzhou	The region location ID.
ResourceQueueId	Long	Yes	248	The ID of the resource queue.
AccessKeyId	String	No	xxx	The AccessKey ID.

Response parameters

Name	Type	Example	Description
RequestId	String	A544317F-4A60-4532-AC96-191B9D80420AF	The GUID generated by Alibaba Cloud for the request.

Examples

- Sample requests

```
/?  Action = DeleteReso  urceQueue
& ClusterId = C - EBD62A703A  430E23
& RegionId = cn - hangzhou
& ResourceQu  eueId = 248
& AccessKeyI  d = xxx
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " code ":" 200 ",
 " requestId ":" A544317F - 4A60 - 4532 - AC96 - 191B9D8042  0A ",
 " successRes  ponse ": true
```

```
}
```

- Error response examples

  JSON format

```
{
 " code ":" AuthRealNa  meNotPass ",
 " message ":" User   real   name   authentica  te   failed !",
 " requestId ":" A544317F - 4A60 - 4532 - AC96 - 191B9D8042  0AF ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

4.6 DescribeClusterOperationHostTaskLog

You can call this operation to view the logs of specified tasks that are executed on a specified host.

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-0E995C0EE7E5ECB3	The ID of the cluster.
HostId	String	Yes	41008	The ID of the host that stores the logs to query. You can obtain the host ID by calling the ListClusterOperationHost operation.
OperationId	String	Yes	11123	The operation ID. You can obtain the value by calling the ListClusterOperation operation.

Name	Type	Required	Example	Description
TaskId	String	Yes	1098803	The task ID. You can obtain the value by calling the ListClusterOperationHostTask operation.
Status	String	No	SUCCESS	The status of the task. Not required.
RegionId	String	Yes	cn-hangzhou	The region location ID.
AccessKeyId	String	No	xxx	The AccessKey ID.

Response parameters

Name	Type	Example	Description
RequestId	String	A544317F-4A60-4532-AC96-191B9D80420AF	The ID of the request.

Name	Type	Example	Description
Stdout	String	2018-11-27 14:21:59 ==========touch -c /var/lib/ecm-agent/cache /ecm/service/ ILOGTAIL/1.0.0. 0.1-df/package/ scripts/IlogtaildC omponentOperator .py touch -c /var /lib/ecm-agent/ cache/ecm/service /ILOGTAIL/1.0.0 .0.1-df/package/ scripts/IlogtaildC onfigService.py root 2844 0.0 0.0 49244 2380 ? Ss 14: 20 0:00 /usr/local/ ilogtail/ilogtail root 2846 0.5 0.2 231416 18352 ? Sl 14:20 0:00 /usr/local/ilogtail /ilogtail Command completed successfully!	The stdout log of the task.==========
Stderr	String	2018-11-27 14:21:59 ==========Tue, 27 Nov 2018 14:21:59 IlogtaildC omponentOperator .py[line:140] INFO ilogtail has been started, return	The stderr log of the task.==========

Examples

- Sample requests

```
/?  ClusterId = C - F32FB31D82  954C64
& HostId = 41008
& OperationI  d = 11123
& RegionId = cn - hangzhou
& TaskId = 1098803
& AccessKeyI  d = xxx
```

```
& Status = SUCCESS
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
 " requestId ": " xxx ",
 " stderr ":" 2018 - 11 - 27   14 : 21 : 59
 ==============================================================================
 Tue ,  27   Nov   2018   14 : 21 : 59   IlogtaildC  omponentOp
 erator . py [ line : 140 ]  INFO   ilogtail   has   been   started
 ,  return ",
 " stdout ":" 2018 - 11 - 27   14 : 21 : 59
 ==============================================================================
 touch  - c  / var / lib / ecm - agent / cache / ecm / service /
 ILOGTAIL / 1 . 0 . 0 . 0 . 1 - df / package / scripts / IlogtaildC
 omponentOp  erator . py   touch  - c  / var / lib / ecm - agent /
 cache / ecm / service / ILOGTAIL / 1 . 0 . 0 . 0 . 1 - df / package
 / scripts / IlogtaildC  onfigServi  ce . py   root   2844   0 . 0
   0 . 0   49244   2380  ?  Ss   14 : 20   0 : 00  / usr / local /
 ilogtail / ilogtail   root   2846   0 . 5   0 . 2   231416   18352
  ?  Sl   14 : 20   0 : 00  / usr / local / ilogtail / ilogtail
 Command   completed   successful  ly !"
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

4.7 DescribeClusterResourcePoolSchedulerType

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-EBD62A703A430E23	The ID of the cluster.
RegionId	String	Yes	cn-hangzhou	The region location ID.
AccessKeyId	String	No	xxx	The

Response parameters

Name	Type	Example	Description
RequestId	String	51517046-1327-45CF-9C70-AEA03A5BE02	The ID of the request.
CurrentSchedulerType	String	CAPACITY_SCHEDULER, FAIR_SCHEDULER	The scheduler type.
SupportSchedulerType	String	CAPACITY_SCHEDULER	The supported scheduler types.

Examples

- Sample requests

```
/?  Action = DescribeCl  usterResou  rcePoolSch  edulerType
& ClusterId = C - EBD62A703A  430E23
& RegionId = cn - hangzhou
& AccessKeyI  d = xxx
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
    " code ":" 200 ",
    " data ":{
        " CurrentSch  edulerType ":" CAPACITY_S  CHEDULER ",
        " RequestId ":" 51517046 - 1327 - 45CF - 9C70 - AEA03A5BE0
 25 ",
        " SupportSch  edulerType ":" CAPACITY_S  CHEDULER ,
 FAIR_SCHED  ULER "
    },
    " requestId ":" 51517046 - 1327 - 45CF - 9C70 - AEA03A5BE0  25
 ",
    " successRes  ponse ": true
}
```

- Error response examples

  JSON format

```
{
    " code ":" User . OtherUserR  esource . NotAllow ",
    " message ":" It   is   not   allowed   to   operate   other
 user ' s   resource ",
    " requestId ":" A544317F - 4A60 - 4532 - AC96 - 191B9D8042  0AF
 ",
    " successRes  ponse ": false
```

```
}
```

Error codes

View error codes.

4.8 DescribeClusterService

You can call this operation to view the description of a cluster service.

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-EBD62A703A430E23	The ID of the cluster.
RegionId	String	Yes	cn-hangzhou	The region location ID.
ServiceName	String	Yes	HDFS	The name of the service. Sample values : HDFS and YARN.
AccessKeyId	String	No	xxx	The AccessKey ID.

Response parameters

Name	Type	Example	Description
RequestId	String	EBB4D49C-4064-4818-B3AE-4C6BE5FC8264	The ID of the request.
ServiceInfo			The information about the service.
ServiceName	String	YARN	The name of the service.
ServiceVersion	String	2.7.2	The version of the service.
ServiceStatus	String	INSTALLED	The status of the service.

Name	Type	Example	Description
NeedRestartInfo	String	""	The informatio n about the components to be restarted.
NeedRestartNum	Integer	0	The number of components to be restarted.
ServiceActionList			The list of actions supported by the service.
ServiceName	String	YARN	The name of the service.
ComponentName	String	NodeManager	The corresponding component name to the action.
ActionName	String	CUSTOM_COM MAND	The name of the action.
Command	String	refreshQueues	When the value of ActionName is CUSTOM_COM MAND, specify the Command parameter. Services support different commands . Currently, YARN supports refreshQueues, enableCGroups , and disableCGr oups.
DisplayName	String	RESTART NodeManager	The displayed name of the action.
ClusterSer viceSummaryList			The overview of the service, primarily statistics about the components.

Name	Type	Example	Description
Key	String	NodeManager	The key, typically the component name.
DisplayName	String	NodeManager	The displayed name .
Value	String	20/20 Started	The value corresponding to the key.
Status	String	OK	The status.
Type	String	COMPONENT	The type of the key.
AlertInfo	String	""	The alert information corresponding to the key.
NeedRestartHostIdList	String	["HostId1"]	The IDs of the hosts where the components to be restarted are deployed.
NeedRestartComponentNameList	String	["NodeManager","ResourceManager"]	The name list of the components to be restarted.

Examples

- Sample requests

```
/?  ClusterId = C - F32FB31D82  954C64
& RegionId = cn - hangzhou
& ServiceNam  e = HDFS
& AccessKeyI  d = akId
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " code ":" 200 ",
 " data ":{
  " RequestId ":" 7A23195A - BC03 - 4D82 - BED5 - 90ED0D36F0  02 ",
  " ServiceInf  o ":{
   " ClusterSer  viceSummar  yList ":{
    " ClusterSer  viceSummar  y ":[
     {
```

```
      " AlertInfo ":"",
      " DisplayNam  e ":" NodeManage  r ",
      " Key ":" NodeManage  r ",
      " Status ":" OK ",
      " Type ":" COMPONENT ",
      " Value ":" 20 / 20   Started "
     },
     {
      " AlertInfo ":"",
      " DisplayNam  e ":" JobHistory ",
      " Key ":" JobHistory ",
      " Status ":" OK ",
      " Type ":" COMPONENT ",
      " Value ":" 1 / 1   Started "
     },
     {
      " AlertInfo ":"",
      " DisplayNam  e ":" Yarn   Client ",
      " Key ":" YarnInit ",
      " Status ":" OK ",
      " Type ":" COMPONENT ",
      " Value ":" 22 / 22   Installed "
     },
     {
      " AlertInfo ":"",
      " DisplayNam  e ":" App   Timeline   Server ",
      " Key ":" TimeLineSe  rver ",
      " Status ":" OK ",
      " Type ":" COMPONENT ",
      " Value ":" 1 / 1   Started "
     },
     {
      " AlertInfo ":"",
      " DisplayNam  e ":" WebAppProx  yServer ",
      " Key ":" WebAppProx  yServer ",
      " Status ":" OK ",
      " Type ":" COMPONENT ",
      " Value ":" 1 / 1   Started "
     },
     {
      " AlertInfo ":"",
      " DisplayNam  e ":" ResourceMa  nager ",
      " Key ":" ResourceMa  nager ",
      " Status ":" OK ",
      " Type ":" COMPONENT ",
      " Value ":" 2 / 2   Started "
     }
    ]
   },
   " NeedRestar  tComponent  NameList ":{
    " Service ":[]
   },
   " NeedRestar  tHostIdLis  t ":{
    " Service ":[]
   },
   " NeedRestar  tInfo ":"",
   " NeedRestar  tNum ": 0 ,
   " ServiceAct  ionList ":{
    " ServiceAct  ion ":[
     {
      " ActionName ":" CONFIGURE ",
      " ComponentN  ame ":" ALL   COMPONENTS ",
      " DisplayNam  e ":" CONFIGURE   All   Components ",
      " ServiceNam  e ":" YARN "
```

```
        },
        {
         " ActionName ":" START ",
         " ComponentN  ame ":" ALL   COMPONENTS ",
         " DisplayNam  e ":" START   All   Components ",
         " ServiceNam  e ":" YARN "
        },
        {
         " ActionName ":" STOP ",
         " ComponentN  ame ":" ALL   COMPONENTS ",
         " DisplayNam  e ":" STOP   All   Components ",
         " ServiceNam  e ":" YARN "
        },
        {
         " ActionName ":" RESTART ",
         " ComponentN  ame ":" ALL   COMPONENTS ",
         " DisplayNam  e ":" RESTART   All   Components ",
         " ServiceNam  e ":" YARN "
        },
        {
         " ActionName ":" RESTART ",
         " ComponentN  ame ":" NodeManage  r ",
         " DisplayNam  e ":" RESTART   NodeManage  r ",
         " ServiceNam  e ":" YARN "
        },
        {
         " ActionName ":" RESTART ",
         " ComponentN  ame ":" WebAppProx  yServer ",
         " DisplayNam  e ":" RESTART   WebAppProx  yServer ",
         " ServiceNam  e ":" YARN "
        },
        {
         " ActionName ":" RESTART ",
         " ComponentN  ame ":" JobHistory ",
         " DisplayNam  e ":" RESTART   JobHistory ",
         " ServiceNam  e ":" YARN "
        },
        {
         " ActionName ":" RESTART ",
         " ComponentN  ame ":" ResourceMa  nager ",
         " DisplayNam  e ":" RESTART   ResourceMa  nager ",
         " ServiceNam  e ":" YARN "
        },
        {
         " ActionName ":" RESTART ",
         " ComponentN  ame ":" TimeLineSe  rver ",
         " DisplayNam  e ":" RESTART   App   Timeline   Server ",
         " ServiceNam  e ":" YARN "
        },
        {
         " ActionName ":" CUSTOM_COM  MAND ",
         " Command ":" refreshQue  ues ",
         " ComponentN  ame ":" ResourceMa  nager ",
         " DisplayNam  e ":" Refresh   Queues ",
         " ServiceNam  e ":" YARN "
        },
        {
         " ActionName ":" CUSTOM_COM  MAND ",
         " Command ":" enableCGro  ups ",
         " ComponentN  ame ":" NodeManage  r ",
         " DisplayNam  e ":" Enable   CGroups ",
         " ServiceNam  e ":" YARN "
        },
        {
```

```
        " ActionName ":" CUSTOM_COM  MAND ",
        " Command ":" disableCGr  oups ",
        " ComponentN  ame ":" NodeManage  r ",
        " DisplayNam  e ":" Disable   CGroups ",
        " ServiceNam  e ":" YARN "
      }
     ]
    },
    " ServiceNam  e ":" YARN ",
    " ServiceSta  tus ":" INSTALLING ",
    " ServiceVer  sion ":" 2 . 7 . 2 - 1 . 3 . 1 "
   }
  },
  " requestId ":" 7A23195A - BC03 - 4D82 - BED5 - 90ED0D36F0  02 ",
  " successRes  ponse ": true
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

4.9 DescribeClusterServiceConfig

You can call this operation to view the configurations of a specified service of a cluster.

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-EBD62A703A430E23	The ID of the cluster.
RegionId	String	Yes	cn-hangzhou	The region location ID.

Name	Type	Required	Example	Description
ConfigVersion	String	No	0	The configuration version, which you can obtain by calling the DescribeClusterServiceConfigHistory operation.
GroupId	String	No	0	The ID of the configuration group.
HostInstanceId	String	No	ecsId	The ID of the instance.
ServiceName	String	No	TEZ	The name of the service.
TagValue	String	No	tez-site	The tag value of the configuration file, which can be obtained by calling the DescribeClusterServiceConfigTag operation.
AccessKeyId	String	No	xxx	The AccessKey ID.

Response parameters

Name	Type	Example	Description
RequestId	String	094585B2-13AF-4780-96B3-C8E925418B5D	The ID of the request.
Config			The detail of the configuration.

Name	Type	Example	Description
ServiceName	String	TEZ	The name of the service.
ConfigVersion	String	0	The configuration version.
Applied	String	true	Indicates whether the configuration takes effect.
CreateTime	String	1543312717000	The time at which the domain name was created.
Author	String	111	The author.
Comment	String	""	The comment.
ConfigValueList			The list of configuration files for the service.
ConfigName	String	tez-site	The name of the configuration file.
AllowCustom	Boolean	true	Indicates whether the current configuration file allows custom configuration items.
ConfigItemValueList			The key-value pairs of the configuration item.
ItemName	String	tez.history.logging.service.class	The name of the configuration item.
Value	String	org.apache.tez.dag.history.logging.ats.ATSHistoryLoggingService	The value of the configuration item.
IsCustom	Boolean	false	Indicates whether the configuration item is custom.

Name	Type	Example	Description
Description	String	""	The description of the configuration item.
PropertyInfoList			The property information of the configuration item.
Name	String	tez.lib.uris	The name of the configuration item.
Value	String	${fs.defaultFS}/apps/tez-0.9.1-1.0.2/,${fs.defaultFS}/apps/tez-0.9.1-1.0.2/lib/	The template of the configuration item value.
Description	String	""	The description of the configuration item.
FileName	String	tez-site	The name of the configuration file.
DisplayName	String	tez-site	The displayed name.
ServiceName	String	TEZ	The name of the service.
Component	String	""	The name of the component.
PropertyTypes	String	["MEMORY"]	The property type of the configuration item.
PropertyValueAttributes			The property value of the configuration item.
Type	String	""	A reserved parameter. Currently invalid.
Maximum	String	10000	The maximum value.
Mimimum	String	10	The mimimum value.

Name	Type	Example	Description
Unit	String	MB	The unit of the configuration item value.
ReadOnly	Boolean	true	Indicates whether the configuration item is read-only (cannot be modified).
Hidden	Boolean	true	Indicates whether the configuration item is displayed.
IncrememtStep	String	10	The increment of the value.
Entries			A reserved parameter.
Value	String	""	A reserved parameter.
Label	String	""	A reserved parameter.
Description	String	""	A reserved parameter.
EffectWay			A reserved parameter.
EffectType	String	""	A reserved parameter.
InvokeServiceName	String	""	A reserved parameter.

Examples

- Sample requests

```
/?  ClusterId = C - F32FB31D82  954C64
& RegionId = cn - hangzhou
& AccessKeyI  d = akId
& ConfigVers  ion = 0
& GroupId = 0
& HostInstan  ceId = ecsId
& ServiceNam  e = TEZ
& TagValue = tez - site
```

```
&< Common   request   parameters >
```

- **Successful response examples**

JSON format

```
{
 " Config ":{
  " Applied ": true ,
  " Author ":" 1250460021  754461 ",
  " Comment ":"",
  " ConfigValu  eList ":{
   " ConfigValu  e ":[{
    " AllowCusto  m ": true ,
    " ConfigItem  ValueList ":{
     " ConfigItem  Value ":[
      {
       " ItemName ":" tez . history . logging . service . class ",
       " Value ":" org . apache . tez . dag . history . logging .
 ats . ATSHistory  LoggingSer  vice "
      },
      {
       " ItemName ":" tez . runtime . convert . user - payload . to
 . history - text ",
       " Value ":" true "
      },
      {
       " ItemName ":" tez . am . resource . memory . mb ",
       " Value ":" 640 "
      },
      {
       " ItemName ":" tez . tez - ui . history - url . base ",
       " Value ":" http :// emr - header - 1 : 8090 / tez - ui2 /"
      },
      {
       " ItemName ":" tez . lib . uris ",
       " Value ":"${ fs . defaultFS }/ apps / tez - 0 . 9 . 1 - 1 .
 0 . 2 /,${ fs . defaultFS }/ apps / tez - 0 . 9 . 1 - 1 . 0 . 2 /
 lib /"
      },
      {
       " ItemName ":" tez . container . max . java . heap . fraction
 ",
       " Value ":" 0 . 8 "
      },
      {
       " ItemName ":" tez . am . java . opts ",
       " Value ":"- Xmx512m "
      },
      {
       " ItemName ":" tez . staging - dir ",
       " Value ":"/ tmp / tez / staging "
      }
     ]
    },
    " ConfigName ":" tez - site "
   }]
  },
  " ConfigVers  ion ":" 0 ",
  " CreateTime ":" 1543312717  000 ",
  " PropertyIn  foList ":{
   " PropertyIn  fo ":[
    {
```

```
      " Descriptio  n ":"",
      " DisplayNam  e ":"",
      " EffectWay ":{},
      " FileName ":" tez - site ",
      " Name ":" tez . lib . uris ",
      " PropertyTy  pes ":{
       " propertyTy  pe ":[]
      },
      " PropertyVa  lueAttribu  tes ":{
       " Entries ":{
        " ValueEntry  Info ":[]
       },
       " Hidden ": false ,
       " IncrememtS  tep ":"",
       " Maximum ":" 2147483647 ",
       " Mimimum ":"",
       " ReadOnly ": false ,
       " Type ":"",
       " Unit ":""
      },
      " ServiceNam  e ":" TEZ ",
      " Value ":"${ fs . defaultFS }/ apps / tez - 0 . 9 . 1 - 1 . 0
. 2 /,${ fs . defaultFS }/ apps / tez - 0 . 9 . 1 - 1 . 0 . 2 / lib
/"
    },
    {
      " Descriptio  n ":"",
      " DisplayNam  e ":"",
      " EffectWay ":{},
      " FileName ":" tez - site ",
      " Name ":" tez . staging - dir ",
      " PropertyTy  pes ":{
       " propertyTy  pe ":[]
      },
      " PropertyVa  lueAttribu  tes ":{
       " Entries ":{
        " ValueEntry  Info ":[]
       },
       " Hidden ": false ,
       " IncrememtS  tep ":"",
       " Maximum ":" 2147483647 ",
       " Mimimum ":"",
       " ReadOnly ": false ,
       " Type ":"",
       " Unit ":""
      },
      " ServiceNam  e ":" TEZ ",
      " Value ":"/ tmp / tez / staging "
    },
    {
      " Descriptio  n ":"",
      " DisplayNam  e ":"",
      " EffectWay ":{},
      " FileName ":" tez - site ",
      " Name ":" tez . am . resource . memory . mb ",
      " PropertyTy  pes ":{
       " propertyTy  pe ":[" MEMORY "]
      },
      " PropertyVa  lueAttribu  tes ":{
       " Entries ":{
        " ValueEntry  Info ":[]
       },
       " Hidden ": false ,
       " IncrememtS  tep ":"",
```

```
      " Maximum ":" 2147483647 ",
      " Mimimum ":"",
      " ReadOnly ": false ,
      " Type ":"",
      " Unit ":""
     },
     " ServiceNam  e ":" TEZ ",
     " Value ":"# yarn_app_m  apreduce_a  m_resource  _mb #"
    },
    {
     " Descriptio  n ":"",
     " DisplayNam  e ":"",
     " EffectWay ":{},
     " FileName ":" tez - site ",
     " Name ":" tez . container . max . java . heap . fraction ",
     " PropertyTy  pes ":{
      " propertyTy  pe ":[" MEMORY "]
     },
     " PropertyVa  lueAttribu  tes ":{
      " Entries ":{
       " ValueEntry  Info ":[]
      },
      " Hidden ": false ,
      " IncrememtS  tep ":"",
      " Maximum ":" 2147483647 ",
      " Mimimum ":"",
      " ReadOnly ": false ,
      " Type ":"",
      " Unit ":""
     },
     " ServiceNam  e ":" TEZ ",
     " Value ":" 0 . 8 "
    },
    {
     " Descriptio  n ":"",
     " DisplayNam  e ":"",
     " EffectWay ":{},
     " FileName ":" tez - site ",
     " Name ":" tez . history . logging . service . class ",
     " PropertyTy  pes ":{
      " propertyTy  pe ":[]
     },
     " PropertyVa  lueAttribu  tes ":{
      " Entries ":{
       " ValueEntry  Info ":[]
      },
      " Hidden ": false ,
      " IncrememtS  tep ":"",
      " Maximum ":" 2147483647 ",
      " Mimimum ":"",
      " ReadOnly ": false ,
      " Type ":"",
      " Unit ":""
     },
     " ServiceNam  e ":" TEZ ",
     " Value ":" org . apache . tez . dag . history . logging . ats
. ATSHistory  LoggingSer  vice "
    },
    {
     " Descriptio  n ":" Publish  configurat  ion  informatio  n
to  Timeline  server .",
     " DisplayNam  e ":"",
     " EffectWay ":{},
     " FileName ":" tez - site ",
```

```
      " Name ":" tez . runtime . convert . user - payload . to .
 history - text ",
     " PropertyTy  pes ":{
      " propertyTy  pe ":[]
     },
     " PropertyVa  lueAttribu  tes ":{
      " Entries ":{
       " ValueEntry  Info ":[]
      },
      " Hidden ": false ,
      " IncrememtS  tep ":"",
      " Maximum ":" 2147483647 ",
      " Mimimum ":"",
      " ReadOnly ": false ,
      " Type ":"",
      " Unit ":""
     },
     " ServiceNam  e ":" TEZ ",
     " Value ":" true "
    },
    {
     " Descriptio  n ":"",
     " DisplayNam  e ":"",
     " EffectWay ":{},
     " FileName ":" tez - site ",
     " Name ":" tez . tez - ui . history - url . base ",
     " PropertyTy  pes ":{
      " propertyTy  pe ":[]
     },
     " PropertyVa  lueAttribu  tes ":{
      " Entries ":{
       " ValueEntry  Info ":[]
      },
      " Hidden ": false ,
      " IncrememtS  tep ":"",
      " Maximum ":" 2147483647 ",
      " Mimimum ":"",
      " ReadOnly ": false ,
      " Type ":"",
      " Unit ":""
     },
     " ServiceNam  e ":" TEZ ",
     " Value ":" http :// emr - header - 1 : 8090 / tez - ui2 /"
    },
    {
     " Descriptio  n ":"",
     " DisplayNam  e ":" tez . am . java . opts ",
     " EffectWay ":{},
     " FileName ":" tez - site ",
     " Name ":" tez . am . java . opts ",
     " PropertyTy  pes ":{
      " propertyTy  pe ":[]
     },
     " PropertyVa  lueAttribu  tes ":{
      " Entries ":{
       " ValueEntry  Info ":[]
      },
      " Hidden ": false ,
      " IncrememtS  tep ":"",
      " Maximum ":" 2147483647 ",
      " Mimimum ":"",
      " ReadOnly ": false ,
      " Type ":"",
      " Unit ":""
```

```
      },
      " ServiceNam  e ":" TEZ ",
      " Value ":"- Xmx512m "
     },
     {
      " Descriptio  n ":"",
      " DisplayNam  e ":" tomcat_hea  psize ",
      " EffectWay ":{},
      " FileName ":" user_param  s ",
      " Name ":" tomcat_hea  psize ",
      " PropertyTy  pes ":{
       " propertyTy  pe ":[]
      },
      " PropertyVa  lueAttribu  tes ":{
       " Entries ":{
        " ValueEntry  Info ":[]
       },
       " Hidden ": false ,
       " IncrememtS  tep ":"",
       " Maximum ":" 2147483647 ",
       " Mimimum ":"",
       " ReadOnly ": false ,
       " Type ":"",
       " Unit ":""
      },
      " ServiceNam  e ":" TEZ ",
      " Value ":" 512 "
     },
     {
      " Descriptio  n ":"",
      " DisplayNam  e ":" do_init_ho  st ",
      " EffectWay ":{},
      " FileName ":" user_param  s ",
      " Name ":" do_init_ho  st ",
      " PropertyTy  pes ":{
       " propertyTy  pe ":[]
      },
      " PropertyVa  lueAttribu  tes ":{
       " Entries ":{
        " ValueEntry  Info ":[]
       },
       " Hidden ": false ,
       " IncrememtS  tep ":"",
       " Maximum ":" 2147483647 ",
       " Mimimum ":"",
       " ReadOnly ": false ,
       " Type ":"",
       " Unit ":""
      },
      " ServiceNam  e ":" TEZ ",
      " Value ":" emr - header - 1 "
     }
    ]
   },
   " ServiceNam  e ":" TEZ "
  },
  " RequestId ":" 094585B2 - 13AF - 4780 - 96B3 - C8E925418B  5D "
```

```
}
```

- Error response examples

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

4.10 DescribeClusterServiceConfigTag

You can call this operation to view the configuration tags of a specified service on a cluster.

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-EBD62A703A430E23	The ID of the cluster.
RegionId	String	Yes	cn-hangzhou	The region location ID.
ConfigTag	String	No	FILE_NAME	The name of the tag.
ServiceName	String	No	Tez.	The name of the service.
AccessKeyId	String	No	xxx	The AccessKey ID.

Response parameters

Name	Type	Example	Description
RequestId	String	EBB4D49C-4064-4818-B3AE-4C6BE5FC8264	The ID of the request.
ConfigTagList			The list of tags.

Name	Type	Example	Description
Tag	String	FILE_NAME	The name of the tag .
TagDesc	String	file	The description of the tag.
ValueList			The list of tag values.
Value	String	tez-site	The value of the tag .
ValueDesc	String	tez-site	The description of the tag value.

Examples

- Sample requests

```
/?  ClusterId = C - F32FB31D82  954C64
& RegionId = cn - hangzhou
& ConfigTag = FILE_NAME
& ServiceNam  e = TEZ
& AccessKeyI  d = 11
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " ConfigTagL  ist ":{
  " ConfigTag ":[
   {
    " Tag ":" FILE_NAME ",
    " TagDesc ":" file ",
    " ValueList ":{
     " Value ":[{
      " Value ":" tez - site ",
      " ValueDesc ":" tez - site "
     }]
    }
   },
   {
    " Tag ":" PROPERTY_T  YPE ",
    " TagDesc ":" configurat  ion   type ",
    " ValueList ":{
     " Value ":{
      {
       " Value ":" BASIC ",
       " ValueDesc ":" basic   configurat  ion "
      },
      {
       " Value ":" ADVANCED ",
       " ValueDesc ":" advanced   configurat  ion "
      },
```

```
        {
         " Value ":" INFORMATIO  N ",
         " ValueDesc ":" read - only   configurat  ion "
        },
        {
         " Value ":" DATA_PATH ",
         " ValueDesc ":" data   path "
        },
        {
         " Value ":" LOG_PATH ",
         " ValueDesc ":" log   path "
        },
        {
         " Value ":" LOG ",
         " ValueDesc ":" about   logs "
        },
        {
         " Value ":" JVM ",
         " ValueDesc ":" about   JVM "
        },
        {
         " Value ":" DATA ",
         " ValueDesc ":" about   data "
        },
        {
         " Value ":" DATABASE ",
         " ValueDesc ":" about   databases "
        },
        {
         " Value ":" PERFORMANC  E ",
         " ValueDesc ":" about   performanc  e "
        },
        {
         " Value ":" TIME ",
         " ValueDesc ":" about   time "
        },
        {
         " Value ":" CODEC ",
         " ValueDesc ":" about   codecs  "
        },
        {
         " Value ":" OSS ",
         " ValueDesc ":" about   OSS "
        },
        {
         " Value ":" PORT ",
         " ValueDesc ":" ports "
        },
        {
         " Value ":" MEMORY ",
         " ValueDesc ":" memory   configurat  ion "
        },
        {
         " Value ":" DISK ",
         " ValueDesc ":" about   disks "
        },
        {
         " Value ":" NETWORK ",
         " ValueDesc ":" about   networks "
        },
        {
         " Value ":" PATH ",
         " ValueDesc ":" file   path "
        },
```

```
        {
         " Value ":" URI ",
         " ValueDesc ":" URL   or   URI "
        }
       ]
      }
     }
    ]
  },
  " RequestId ":" B887B2A3 - E770 - 4340 - A556 - D9FAF41ABF  47 "
}
```

- Error response examples

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ":  true
}
```

Error codes

View error codes.

4.11 ListClusterHostComponent

You can call this operation to view the component lists of all hosts in a specified cluster.

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-EBD62A703A430E23	The ID of the cluster.
RegionId	String	Yes	cn-hangzhou	The region location ID.
ComponentName	String	No	TezInit	The name of the component.
ComponentStatus	String	No	STARTED	The status of the component.
HostInstanceId	String	No	i-xxx	The instance ID .
HostName	String	No	emr-worker-1	The name of the host.

Name	Type	Required	Example	Description
HostRole	String	No	CORE	The role of the host.
PageNumber	Integer	No	1	The page number to query.
PageSize	Integer	No	100	The number of records to show on each page.
ServiceName	String	No	Tez.	The name of the service.
AccessKeyId	String	No	xxx	The AccessKey ID.

Response parameters

Name	Type	Example	Description
RequestId	String	DF202AC2-5D5D-4288-B608-B7B1595B5C7C	The ID of the request.
PageNumber	Integer	100	The current page number.
PageSize	Integer	1	The number of records that are shown on each page.
Total	Integer	4	The total number of records.
ComponentList			The list of components.
ServiceName	String	Tez.	The name of the service.
ServiceDisplayName	String	Tez.	The displayed name of the service.
ComponentName	String	TezInit	The name of the component.
ComponentDisplayName	String	Tez Client	The displayed name of the component.

Name	Type	Example	Description
Status	String	STARTED	The status of the component.
NeedRestart	Boolean	true	Indicates whether the component needs to be restarted.
HostId	String	111	The ID of the host.
ServerStatus	String	active	The service status of the component. Valid values: active and standBY (for some components on a high-availability cluster).
HostName	String	emr-worker-1	The name of the host.
PublicIp	String	48.20.119.10	The public IP address of the host.
PrivateIp	String	192.168.1.1	The private IP address of the host.
Role	String	CORE	The role of the host.
InstanceType	String	ecs.sn1.xlarge	The instance type.
Cpu	Integer	4	The number of vCPUs.
Memory	Integer	8	The memory size of the host.
HostInstanceId	String	i-xxx	The instance ID of the host.
SerialNumber	String	x11-05e5-4d36-b773-8ae4106babd4	The serial number of the host.

Examples

- Sample requests

```
/?  ClusterId = C - F32FB31D82  954C64
& RegionId = cn - hangzhou
& AccessKeyI  d = 111
& ComponentN  ame = TezInit
& ComponentS  tatus = STARTED
```

```
& HostInstan  ceId = i - xxx
& HostName = emr - worker - 1
& HostRole = CORE
& PageNumber = 1
& PageSize = 100
& ServiceNam  e = TEZ
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
 " ComponentL  ist ":{
  " Component ":[
   {
    " ComponentD  isplayName ":" Tez   Client ",
    " ComponentN  ame ":" TezInit ",
    " HostId ":" 124903 ",
    " HostInstan  ceId ":" i - xxx1 ",
    " HostName ":" emr - header - 1 ",
    " InstanceTy  pe ":" ecs . n4 . xlarge ",
    " NeedRestar  t ": false ,
    " PrivateIp ":" 192 . 168 . 143 . 231 ",
    " PublicIp ":" 47 . 97 . 106 . 27 ",
    " Role ":" MASTER ",
    " SerialNumb  er ":" x11 - 05e5 - 4d36 - b773 - 8ae4106bab  d4
 ",
    " ServiceDis  playName ":" Tez ",
    " ServiceNam  e ":" TEZ ",
    " Status ":" STARTED "
   },
   {
    " ComponentD  isplayName ":" Tomcat ",
    " ComponentN  ame ":" Tomcat ",
    " HostId ":" 124903 ",
    " HostInstan  ceId ":" i - xxx2 ",
    " HostName ":" emr - header - 1 ",
    " InstanceTy  pe ":" ecs . n4 . xlarge ",
    " NeedRestar  t ": false ,
    " PrivateIp ":" 192 . 168 . 143 . 231 ",
    " PublicIp ":" 47 . 97 . 106 . 27 ",
    " Role ":" MASTER ",
    " SerialNumb  er ":" 1xx1 - 05e5 - x - b773 - xxx ",
    " ServiceDis  playName ":" Tez ",
    " ServiceNam  e ":" TEZ ",
    " Status ":" STARTED "
   },
   {
    " ComponentD  isplayName ":" Tez   Client ",
    " ComponentN  ame ":" TezInit ",
    " HostId ":" 124902 ",
    " HostInstan  ceId ":" i - xxx3 ",
    " HostName ":" emr - worker - 1 ",
    " InstanceTy  pe ":" ecs . n4 . xlarge ",
    " NeedRestar  t ": false ,
    " PrivateIp ":" 192 . 168 . 143 . 232 ",
    " PublicIp ":"",
    " Role ":" CORE ",
    " SerialNumb  er ":" asd1x1 - af39 - 1c - 32b27d83d4  c3 ",
    " ServiceDis  playName ":" Tez ",
    " ServiceNam  e ":" TEZ ",
    " Status ":" STARTED "
```

```
    },
    {
     " ComponentD  isplayName ":" Tez   Client ",
     " ComponentN  ame ":" TezInit ",
     " HostId ":" 124901 ",
     " HostInstan  ceId ":" i - xxx4 ",
     " HostName ":" emr - worker - 2 ",
     " InstanceTy  pe ":" ecs . n4 . xlarge ",
     " NeedRestar  t ": false ,
     " PrivateIp ":" 192 . 168 . 143 . 233 ",
     " PublicIp ":"",
     " Role ":" CORE ",
     " SerialNumb  er ":" 1cc - 2762 - 4d84 - a430 - xxx ",
     " ServiceDis  playName ":" Tez ",
     " ServiceNam  e ":" TEZ ",
     " Status ":" STARTED "
    }
   ]
  },
  " PageNumber ": 1 ,
  " PageSize ": 10 ,
  " RequestId ":" DF202AC2 - 5D5D - 4288 - B608 - B7B1595B5C  7C ",
  " Total ": 4
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

4.12 ListClusterOperation

You can call this operation to view the operations on a cluster.

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-EBD62A703A430E23	The ID of the cluster.
RegionId	String	Yes	cn-hangzhou	The region location ID.

Name	Type	Required	Example	Description
PageNumber	Integer	No	1	The page number to query.
PageSize	Integer	No	100	The number of records to show on each page.
ServiceName	String	No	YARN	The name of the service.
Status	String	No	SUCCESS	The status.
AccessKeyId	String	No	xxx	The AccessKey ID.

Response parameters

Name	Type	Example	Description
RequestId	String	DF202AC2-5D5D-4288-B608-B7B1595B5C7C	The ID of the request.
TotalCount	Integer	1	The total number of records.
PageNumber	Integer	1	The current page number.
PageSize	Integer	100	The number of records that are shown on each page.
ClusterOperationList			The list of operation history.
OperationId	String	1111	The ID of the operation.
OperationName	String	CREATE	The name of the operation.
StartTime	String	1543312720000	The start time of the operation.
Duration	String	500	The duration.
Status	String	SUCCESS	The execution status.

Name	Type	Example	Description
Percentage	String	100	The percentage complete for the task.
Comment	String	Create cluster	The comment about the operation.

Examples

- Sample requests

```
/?  ClusterId = C - F32FB31D82  954C64
& RegionId = cn - hangzhou
& AccessKeyI  d = 111
& PageNumber = 1
& PageSize = 100
& ServiceNam  e = YARN
& Status = SUCCESS
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " ClusterOpe  rationList ":{
  " ClusterOpe  ration ":[{
   " Comment ":" Create   cluster ",
   " Duration ":" 303 ",
   " OperationI  d ":" 41027 ",
   " OperationN  ame ":" CREATE ",
   " Percentage ":" 100 ",
   " StartTime ":" 1543312720  000 ",
   " Status ":" SUCCESS "
  }]
 },
 " PageNumber ": 1 ,
 " PageSize ": 10 ,
 " RequestId ":" FB29CC76 - D7DC - 4A08 - AE96 - E1F96F9FFC  4E ",
 " TotalCount ": 1
}
```

- Error response examples

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
```

```
}
```

Error codes

View error codes.

4.13 ListClusterInstalledService

You can call this operation to query services that have been installed in a cluster.

Debugging

Alibaba Cloud provides OpenAPI Explorer to simplify API usage. You can use OpenAPI Explorer to search for APIs, call APIs, and dynamically generate SDK example code.

Request parameters

Parameter	Type	Required	Example	Description
`Action`	String	Yes	ListClusterInstalledService	The operation that you want to perform. Set this parameter to ListClusterInstalledService.
`ClusterId`	String	Yes	C-0EF9B0EC8564****	The ID of the cluster.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region.
`AccessKeyId`	String	No	LTA****u7gTm****	The AccessKey ID provided to you by Alibaba Cloud.
`PageNumber`	Integer	No	1	The number of the page to return.
`PageSize`	Integer	No	30	The number of entries to return on each page.

Response parameters

Parameter	Type	Example	Description
ClusterInstalledServiceList			The list of services installed in the cluster.

Parameter	Type	Example	Description
ServiceActionList			The list of operations supported by the service.
ActionName	String	CUSTOM_COMMAND	The name of the operation. Valid values: CONFIGURE, START, STOP, RESTART, and CUSTOM_COMMAND.
Command	String	rebalance	The command name of the CUSTOM_COMMAND operation.
ComponentName	String	NameNode	The name of the component.
DisplayName	String	Rebalance	The displayed name of the operation.
ServiceName	String	HDFS	The name of the service.
ServiceDisplayName	String	Ganglia	The displayed name of the service.
ServiceEcmVersion	String	3.7.2.2.7	The reserved field.
ServiceName	String	HDFS	The name of the service.
ServiceVersion	String	3.7.2	The version of the service.
abnormalNum	Integer	0	The number of abnormal components.
comment	String	test	The remarks. This parameter can be left empty.
needRestartNum	Integer	0	The number of components to be restarted.

Parameter	Type	Example	Description
notStarted Num	Integer	0	The number of components that have been stopped.
onlyClient	Boolean	false	Indicates whether only components of the Client type are involved.
serviceStatus	String	INSTALLING	The status of the service.
RequestId	String	88A94B4A-898D-448B-BC0B-6F0FE2CC64CA	The unique ID of the request.

Examples

Sample request

```
 http ( s )://[ Endpoint ]/?  Action = ListCluste  rInstalled
 Service
& ClusterId = C - 0EF9B0EC85  64 ****
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

Sample success response

`XML` format

```
< ListCluste  rInstalled  ServiceRes  ponse >
   < code > 200 </ code >
   < data >
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         < needRestar  tNum > 0 </ needRestar  tNum >
         < notStarted  Num > 12 </ notStarted  Num >
         < onlyClient > false </ onlyClient >
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            < displayNam  e > Configure   All   Components </
 displayNam  e >
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         < serviceAct  ionList >
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 e >
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         < serviceAct  ionList >
```

```
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>
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```

```
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>
```

```
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```
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`JSON` format

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     },
     {
      " componentN  ame ":" ALL   COMPONENTS ",
      " bizActionN  ame ":" STOP ",
```

```
      " actionName ":" STOP ",
      " displayNam  e ":" Stop   All   Components ",
      " serviceNam  e ":" ZEPPELIN "
     },
     {
      " componentN  ame ":" ALL   COMPONENTS ",
      " bizActionN  ame ":" RESTART ",
      " actionName ":" RESTART ",
      " displayNam  e ":" Restart   All   Components ",
      " serviceNam  e ":" ZEPPELIN "
     },
     {
      " componentN  ame ":" Zeppelin ",
      " bizActionN  ame ":" RESTART ",
      " actionName ":" RESTART ",
      " displayNam  e ":" Restart   Zeppelin ",
      " serviceNam  e ":" ZEPPELIN "
     }
    ],
    " notStarted  Num ": 1 ,
    " serviceVer  sion ":" 0 . 8 . 1 ",
    " onlyClient ": false ,
    " serviceDis  playName ":" Zeppelin ",
    " needRestar  tNum ": 0 ,
    " serviceNam  e ":" ZEPPELIN "
   },
   {
    " abnormalNu  m ": 7 ,
    " serviceAct  ionList ":[
     {
      " componentN  ame ":" ALL   COMPONENTS ",
      " bizActionN  ame ":" CONFIGURE ",
      " actionName ":" CONFIGURE ",
      " displayNam  e ":" Configure   All   Components ",
      " serviceNam  e ":" TEZ "
     },
     {
      " componentN  ame ":" ALL   COMPONENTS ",
      " bizActionN  ame ":" START ",
      " actionName ":" START ",
      " displayNam  e ":" Start   All   Components ",
      " serviceNam  e ":" TEZ "
     },
     {
      " componentN  ame ":" ALL   COMPONENTS ",
      " bizActionN  ame ":" STOP ",
      " actionName ":" STOP ",
      " displayNam  e ":" Stop   All   Components ",
      " serviceNam  e ":" TEZ "
     },
     {
      " componentN  ame ":" ALL   COMPONENTS ",
      " bizActionN  ame ":" RESTART ",
      " actionName ":" RESTART ",
      " displayNam  e ":" Restart   All   Components ",
      " serviceNam  e ":" TEZ "
     },
     {
      " componentN  ame ":" TezInit ",
      " bizActionN  ame ":" RESTART ",
      " actionName ":" RESTART ",
      " displayNam  e ":" Restart   Tez   Client ",
      " serviceNam  e ":" TEZ "
     },
```

```
      {
       " componentN  ame ":" Tomcat ",
       " bizActionN  ame ":" RESTART ",
       " actionName ":" RESTART ",
       " displayNam  e ":" Restart   Tomcat ",
       " serviceNam  e ":" TEZ "
      }
     ],
     " notStarted  Num ": 7 ,
     " serviceVer  sion ":" 0 . 9 . 1 - 1 . 1 . 0 ",
     " onlyClient ": false ,
     " serviceDis  playName ":" Tez ",
     " needRestar  tNum ": 0 ,
     " serviceNam  e ":" TEZ "
    },
    {
     " abnormalNu  m ": 0 ,
     " serviceAct  ionList ":[
      {
       " componentN  ame ":" ALL   COMPONENTS ",
       " bizActionN  ame ":" CONFIGURE ",
       " actionName ":" CONFIGURE ",
       " displayNam  e ":" Configure   All   Components ",
       " serviceNam  e ":" SQOOP "
      }
     ],
     " notStarted  Num ": 0 ,
     " serviceVer  sion ":" 1 . 4 . 7 - 1 . 0 . 0 ",
     " onlyClient ": false ,
     " serviceDis  playName ":" Sqoop ",
     " needRestar  tNum ": 0 ,
     " serviceNam  e ":" SQOOP "
    },
    {
     " abnormalNu  m ": 0 ,
     " serviceAct  ionList ":[
      {
       " componentN  ame ":" ALL   COMPONENTS ",
       " bizActionN  ame ":" CONFIGURE ",
       " actionName ":" CONFIGURE ",
       " displayNam  e ":" Configure   All   Components ",
       " serviceNam  e ":" PIG "
      }
     ],
     " notStarted  Num ": 0 ,
     " serviceVer  sion ":" 0 . 14 . 0 ",
     " onlyClient ": false ,
     " serviceDis  playName ":" Pig ",
     " needRestar  tNum ": 0 ,
     " serviceNam  e ":" PIG "
    },
    {
     " abnormalNu  m ": 3 ,
     " serviceAct  ionList ":[
      {
       " componentN  ame ":" ALL   COMPONENTS ",
       " bizActionN  ame ":" CONFIGURE ",
       " actionName ":" CONFIGURE ",
       " displayNam  e ":" Configure   All   Components ",
       " serviceNam  e ":" KNOX "
      },
      {
       " componentN  ame ":" ALL   COMPONENTS ",
       " bizActionN  ame ":" START ",
```

```
      " actionName ":" START ",
      " displayNam  e ":" Start   All   Components ",
      " serviceNam  e ":" KNOX "
     },
     {
      " componentN  ame ":" ALL   COMPONENTS ",
      " bizActionN  ame ":" STOP ",
      " actionName ":" STOP ",
      " displayNam  e ":" Stop   All   Components ",
      " serviceNam  e ":" KNOX "
     },
     {
      " componentN  ame ":" ALL   COMPONENTS ",
      " bizActionN  ame ":" RESTART ",
      " actionName ":" RESTART ",
      " displayNam  e ":" Restart   All   Components ",
      " serviceNam  e ":" KNOX "
     },
     {
      " componentN  ame ":" KNOX ",
      " bizActionN  ame ":" RESTART ",
      " actionName ":" RESTART ",
      " displayNam  e ":" Restart   Knox ",
      " serviceNam  e ":" KNOX "
     }
    ],
    " notStarted  Num ": 3 ,
    " serviceVer  sion ":" 1 . 1 . 0 - 1 . 0 . 2 ",
    " onlyClient ": false ,
    " serviceDis  playName ":" Knox ",
    " needRestar  tNum ": 0 ,
    " serviceNam  e ":" KNOX "
   },
   {
    " abnormalNu  m ": 1 ,
    " serviceAct  ionList ":[
     {
      " componentN  ame ":" ALL   COMPONENTS ",
      " bizActionN  ame ":" CONFIGURE ",
      " actionName ":" CONFIGURE ",
      " displayNam  e ":" Configure   All   Components ",
      " serviceNam  e ":" APACHEDS "
     },
     {
      " componentN  ame ":" ALL   COMPONENTS ",
      " bizActionN  ame ":" START ",
      " actionName ":" START ",
      " displayNam  e ":" Start   All   Components ",
      " serviceNam  e ":" APACHEDS "
     },
     {
      " componentN  ame ":" ALL   COMPONENTS ",
      " bizActionN  ame ":" STOP ",
      " actionName ":" STOP ",
      " displayNam  e ":" Stop   All   Components ",
      " serviceNam  e ":" APACHEDS "
     },
     {
      " componentN  ame ":" ALL   COMPONENTS ",
      " bizActionN  ame ":" RESTART ",
      " actionName ":" RESTART ",
      " displayNam  e ":" Restart   All   Components ",
      " serviceNam  e ":" APACHEDS "
     },
```

```
      {
       " componentN  ame ":" ApacheDS ",
       " bizActionN  ame ":" RESTART ",
       " actionName ":" RESTART ",
       " displayNam  e ":" Restart   ApacheDS ",
       " serviceNam  e ":" APACHEDS "
      }
     ],
     " notStarted  Num ": 1 ,
     " serviceVer  sion ":" 2 . 0 . 0 ",
     " onlyClient ": false ,
     " serviceDis  playName ":" ApacheDS ",
     " needRestar  tNum ": 0 ,
     " serviceNam  e ":" APACHEDS "
    }
   ]
  },
  " code ":" 200 ",
  " success ": true
}
```


Error codes

For more information about error codes, see API Error Center.

4.14 ListClusterOperationHost

You can call this operation to view the hosts that have run.

Request parameters

Name	Type	Required	Example	Descriptim
ClusterId	String	Yes	C-EBD62A703A430E23	The ID of the cluster.
OperationId	String	Yes	111	The ID of the operation.
RegionId	String	Yes	cn-hangzhou	The region location ID.
PageNumber	Integer	No	1	The page number to query.
PageSize	Integer	No	100	The number of records to show on each page.
ServiceName	String	No	YARN	The name of the service.
Status	String	No	SUCCESS	The status.

Name	Type	Required	Example	Descriptim
AccessKeyId	String	No	xxx	The AccessKey ID.

Response parameters

Name	Type	Example	Description
RequestId	String	DF202AC2-5D5D-4288-B608-B7B1595B5C7C	The ID of the request.
TotalCount	Integer	1	The total number of records.
PageNumber	Integer	1	The current page number.
PageSize	Integer	100	The number of records that are shown on each page.
ClusterOperationHostList			The list of hosts corresponding to the operations.
HostId	String	111	The ID of the host.
HostName	String	emr-worker-1	The name of the host.
Status	String	SUCCESS	The execution status.
Percentage	String	100	The percentage complete for the task.

Examples

- Sample requests

```
/?  ClusterId = DF202AC2 - 5D5D - 4288 - B608 - B7B1595B5C  7C
& OperationI  d = 111
& RegionId = cn - hangzhou
& AccessKeyI  d = 111
& PageNumber = 1
& PageSize = 100
& Status = SUCCESS
```

```
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
 " ClusterOpe  rationHost  List ":{
  " ClusterOpe  rationHost ":[
   {
    " HostId ":" 124903 ",
    " HostName ":" emr - header - 1 ",
    " Percentage ":" 100 ",
    " Status ":" SUCCESS "
   },
   {
    " HostId ":" 124902 ",
    " HostName ":" emr - worker - 1 ",
    " Percentage ":" 100 ",
    " Status ":" SUCCESS "
   },
   {
    " HostId ":" 124901 ",
    " HostName ":" emr - worker - 2 ",
    " Percentage ":" 100 ",
    " Status ":" SUCCESS "
   }
  ]
 },
 " PageNumber ": 1 ,
 " PageSize ": 500 ,
 " RequestId ":" 12B58AF8 - 40E0 - 42E9 - B6E5 - 1F4201AFB4  F8 ",
 " TotalCount ": 3
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

4.15 ListClusterOperationHostTask

You can call this operation to view the tasks that have been executed on a specified host.

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-F32FB31D82954C64	The ID of the cluster.
HostId	String	Yes	11	The ID of the host.
RegionId	String	Yes	cn-hangzhou	The region location ID.
PageNumber	Integer	No	1	The page number to query.
PageSize	Integer	No	100	The number of records to show on each page.
Status	String	No	SUCCESS	The execution status.
AccessKeyId	String	No	xxx	The AccessKey ID.

Response parameters

Name	Type	Example	Description
RequestId	String	DF202AC2-5D5D-4288-B608-B7B1595B5C7C	The ID of the request.
TotalCount	Integer	1	The total number of records.
PageNumber	Integer	1	The current page number.
PageSize	Integer	100	The number of records that are shown on each page.

Name	Type	Example	Description
ClusterOperationHostTaskList			The list of tasks that have been executed on the host.
TaskId	String	111	The ID of the task.
TaskName	String	START_SparkHistory_ON_emr-header-1	The name of the task.
Status	String	SUCCESS	The execution status.
Percentage	String	100	The percentage complete for the task.

Examples

- Sample requests

```
/?  ClusterId = C - F32FB31D82  954C64
& HostId = 11
& OperationI  d = 11
& RegionId = cn - hangzhou
& AccessKeyI  d = 111
& PageNumber = 1
& PageSize = 100
& Status = SUCCESS
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " ClusterOpe  rationHost  TaskList ":{
  " ClusterOpe  rationHost  Task ":[
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628214 ",
    " TaskName ":" START_Spar  kHistory_O  N_emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628213 ",
    " TaskName ":" START_Doct  orSchedule  r_ON_emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628212 ",
    " TaskName ":" START_MySQ  L_ON_emr - header - 1 "
```

```
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628211 ",
     " TaskName ":" START_Hive  MetaStore_  ON_emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628210 ",
     " TaskName ":" START_Name  Node_ON_em  r - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628209 ",
     " TaskName ":" START_Ilog  taild_ON_e  mr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628206 ",
     " TaskName ":" START_Hive  Server_ON_  emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628205 ",
     " TaskName ":" START_Gmet  ricCollect  or_ON_emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628202 ",
     " TaskName ":" START_Seco  ndaryNameN  ode_ON_emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628201 ",
     " TaskName ":" START_KNOX  _ON_emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628200 ",
     " TaskName ":" START_Flow  AgentDaemo  n_ON_emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628197 ",
     " TaskName ":" START_Hue_  ON_emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628196 ",
     " TaskName ":" START_HTTP  D_ON_emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
```

```
    " TaskId ":" 4628195 ",
    " TaskName ":" START_HAPr  oxy_ON_emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628194 ",
    " TaskName ":" START_GMET  AD_ON_emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628193 ",
    " TaskName ":" START_Time  LineServer  _ON_emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628192 ",
    " TaskName ":" START_Pres  toMaster_O  N_emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628191 ",
    " TaskName ":" START_WebA  ppProxySer  ver_ON_emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628190 ",
    " TaskName ":" START_EcmA  gentDataWa  tcher_ON_e  mr - header -
1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628187 ",
    " TaskName ":" START_Meta  Command_ON  _emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628186 ",
    " TaskName ":" START_Apac  heDS_ON_em  r - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628185 ",
    " TaskName ":" START_TezI  nit_ON_emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628180 ",
    " TaskName ":" START_Mach  ineHealthM  onitor_ON_  emr - header
- 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628177 ",
    " TaskName ":" START_GMON  D_ON_emr - header - 1 "
```

```
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628174 ",
     " TaskName ":" START_Spar  kThriftSer  ver_ON_emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628173 ",
     " TaskName ":" START_JobH  istory_ON_  emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628172 ",
     " TaskName ":" START_Tomc  at_ON_emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628171 ",
     " TaskName ":" START_OpsC  ommand_ON_  emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628168 ",
     " TaskName ":" START_Reso  urceManage  r_ON_emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628167 ",
     " TaskName ":" INSTALL_Sp  arkHistory  _ON_emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628166 ",
     " TaskName ":" INSTALL_Do  ctorSchedu  ler_ON_emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628165 ",
     " TaskName ":" INSTALL_My  SQL_ON_emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628164 ",
     " TaskName ":" INSTALL_KM  S_ON_emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628163 ",
     " TaskName ":" INSTALL_GA  NGLIAInit_  ON_emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
```

```
    " TaskId ":" 4628160 ",
    " TaskName ":" INSTALL_HI  VEInit_ON_  emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628157 ",
    " TaskName ":" INSTALL_Hi  veMetaStor  e_ON_emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628156 ",
    " TaskName ":" INSTALL_Na  meNode_ON_  emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628155 ",
    " TaskName ":" INSTALL_Il  ogtaild_ON  _emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628152 ",
    " TaskName ":" INSTALL_Sp  arkInit_ON  _emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628149 ",
    " TaskName ":" INSTALL_Hi  veServer_O  N_emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628148 ",
    " TaskName ":" INSTALL_Gm  etricColle  ctor_ON_em  r - header -
1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628145 ",
    " TaskName ":" INSTALL_Se  condaryNam  eNode_ON_e  mr - header -
1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628144 ",
    " TaskName ":" INSTALL_KN  OX_ON_emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628143 ",
    " TaskName ":" INSTALL_Fl  owAgentDae  mon_ON_emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628140 ",
    " TaskName ":" INSTALL_Hu  e_ON_emr - header - 1 "
```

```
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628139 ",
     " TaskName ":" INSTALL_Pr  estoInit_O  N_emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628136 ",
     " TaskName ":" INSTALL_HT  TPD_ON_emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628135 ",
     " TaskName ":" INSTALL_HA  Proxy_ON_e  mr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628134 ",
     " TaskName ":" INSTALL_GM  ETAD_ON_em  r - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628133 ",
     " TaskName ":" INSTALL_Ti  meLineServ  er_ON_emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628132 ",
     " TaskName ":" INSTALL_Ht  tpFS_ON_em  r - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628131 ",
     " TaskName ":" INSTALL_Pr  estoMaster  _ON_emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628130 ",
     " TaskName ":" INSTALL_We  bAppProxyS  erver_ON_e  mr - header -
1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628129 ",
     " TaskName ":" INSTALL_Sq  oopInit_ON  _emr - header - 1 "
    },
    {
     " Percentage ":"",
     " Status ":" COMPLETED ",
     " TaskId ":" 4628126 ",
     " TaskName ":" INSTALL_Pi  gInit_ON_e  mr - header - 1 "
    },
    {
     " Percentage ":"",
```

```
    " Status ":" COMPLETED ",
    " TaskId ":" 4628123 ",
    " TaskName ":" INSTALL_Ec  mAgentData  Watcher_ON  _emr - header
- 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628120 ",
    " TaskName ":" INSTALL_Me  taCommand_  ON_emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628119 ",
    " TaskName ":" INSTALL_Ap  acheDS_ON_  emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628118 ",
    " TaskName ":" INSTALL_Te  zInit_ON_e  mr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628113 ",
    " TaskName ":" INSTALL_Ma  chineHealt  hMonitor_O  N_emr -
header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628110 ",
    " TaskName ":" INSTALL_GM  OND_ON_emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628107 ",
    " TaskName ":" INSTALL_Sp  arkThriftS  erver_ON_e  mr - header -
1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628106 ",
    " TaskName ":" INSTALL_HD  FSInit_ON_  emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628103 ",
    " TaskName ":" INSTALL_Jo  bHistory_O  N_emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628102 ",
    " TaskName ":" INSTALL_Ya  rnInit_ON_  emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
```

```
    " TaskId ":" 4628099 ",
    " TaskName ":" INSTALL_Fl  owAgentIni  t_ON_emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628096 ",
    " TaskName ":" INSTALL_To  mcat_ON_em  r - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628095 ",
    " TaskName ":" INSTALL_Op  sCommand_O  N_emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628092 ",
    " TaskName ":" INSTALL_Re  sourceMana  ger_ON_emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628089 ",
    " TaskName ":" BINDING_HO  ST_HOST_ON  _emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628088 ",
    " TaskName ":" MNT_DISK_H  OST_ON_emr - header - 1 "
   },
   {
    " Percentage ":"",
    " Status ":" COMPLETED ",
    " TaskId ":" 4628085 ",
    " TaskName ":" BUILD_SSH_  TUNNEL_HOS  T_ON_emr - header - 1 "
   }
  ]
 },
 " PageNumber ": 1 ,
 " PageSize ": 500 ,
 " RequestId ":" 69E38B7E - 1A85 - 44C1 - BEC4 - 1704F23BB2  C7 ",
 " TotalCount ": 72
}
```


- **Error response examples**

  JSON format


```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```


Error codes

View error codes.

4.16 ListClusterSupportService

You can call this operation to query services supported by a cluster.

Debugging

Alibaba Cloud provides OpenAPI Explorer to simplify API usage. You can use OpenAPI Explorer to search for APIs, call APIs, and dynamically generate SDK example code.

Request parameters

Parameter	Type	Required	Example	Description
`Action`	String	Yes	ListClusterSupportService	The operation that you want to perform. Set this parameter to ListClusterSupportService.
`ClusterId`	String	Yes	C-0EF9B0EC8564****	The ID of the cluster.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region.
`AccessKeyId`	String	No	LTA****u7gTm****	The AccessKey ID provided to you by Alibaba Cloud.

Response parameters

Parameter	Type	Example	Description
PageNumber	String	1	The number of the page returned.
RequestId	String	EA5FB7F2-BDDA-49C8-B9ED-9C4D3F5D27E8	The ID of the request.
SupportServiceList			The list of supported services.
ServiceDisplayName	String	Hive	The displayed name of the service.
ServiceEcmVersion	String	3.1.1.3.0	The reserved field.
ServiceName	String	HIVE	The name of the service.

Parameter	Type	Example	Description
ServiceVersion	String	3.1.1	The version of the service.
TotalCount	String	30	The total number of services queried.

Examples

Sample request

```
 http ( s )://[ Endpoint ]/?  Action = ListCluste  rSupportSe  rvice
& ClusterId = C - 0EF9B0EC85  64 ****
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

Sample success response

`XML` format

```
< ListCluste  rSupportSe  rviceRespo  nse >
   < code > 200 </ code >
   < data >
      < pageNumber > 3 . 22 . 0 . 1 . 0 - cl </ pageNumber >
      < requestId > EA5FB7F2 - BDDA - 49C8 - B9ED - 9C4D3F5D27  E8 </
 requestId >
      < supportSer  viceList >
         < serviceDis  playName > BigBoot </ serviceDis  playName >
         < serviceEcm  Version > 1 . 0 . 0 . 1 . 2 </ serviceEcm
 Version >
         < serviceNam  e > BIGBOOT </ serviceNam  e >
         < serviceVer  sion > 1 . 0 . 0 </ serviceVer  sion >
      </ supportSer  viceList >
      < supportSer  viceList >
         < serviceDis  playName > SmartData </ serviceDis  playName >
         < serviceEcm  Version > 1 . 0 . 0 . 1 . 5 </ serviceEcm
 Version >
         < serviceNam  e > SMARTDATA </ serviceNam  e >
         < serviceVer  sion > 1 . 0 . 0 </ serviceVer  sion >
      </ supportSer  viceList >
      < supportSer  viceList >
         < serviceDis  playName > Ganglia </ serviceDis  playName >
         < serviceEcm  Version > 3 . 7 . 2 . 9 . 7 </ serviceEcm
 Version >
         < serviceNam  e > GANGLIA </ serviceNam  e >
         < serviceVer  sion > 3 . 7 . 2 </ serviceVer  sion >
      </ supportSer  viceList >
      < supportSer  viceList >
         < serviceDis  playName > Impala </ serviceDis  playName >
         < serviceEcm  Version > 2 . 12 . 2 . 0 . 1 . 4 </ serviceEcm
 Version >
         < serviceNam  e > IMPALA </ serviceNam  e >
         < serviceVer  sion > 2 . 12 . 2 - 1 . 0 . 0 </ serviceVer
 sion >
      </ supportSer  viceList >
```

```
     < supportSer  viceList >
        < serviceDis  playName > Presto </ serviceDis  playName >
        < serviceEcm  Version > 0 . 213 . 0 . 1 . 5 </ serviceEcm
Version >
        < serviceNam  e > PRESTO </ serviceNam  e >
        < serviceVer  sion > 0 . 213 </ serviceVer  sion >
     </ supportSer  viceList >
     < supportSer  viceList >
        < serviceDis  playName > Oozie </ serviceDis  playName >
        < serviceEcm  Version > 5 . 1 . 0 . 0 . 2 </ serviceEcm
Version >
        < serviceNam  e > OOZIE </ serviceNam  e >
        < serviceVer  sion > 5 . 1 . 0 </ serviceVer  sion >
     </ supportSer  viceList >
     < supportSer  viceList >
        < serviceDis  playName > ZooKeeper </ serviceDis  playName >
        < serviceEcm  Version > 3 . 4 . 13 . 2 . 1 </ serviceEcm
Version >
        < serviceNam  e > ZOOKEEPER </ serviceNam  e >
        < serviceVer  sion > 3 . 4 . 13 </ serviceVer  sion >
     </ supportSer  viceList >
     < supportSer  viceList >
        < serviceDis  playName > HDFS </ serviceDis  playName >
        < serviceEcm  Version > 2 . 8 . 5 . 2 . 0 - cl </ serviceEcm
Version >
        < serviceNam  e > HDFS </ serviceNam  e >
        < serviceVer  sion > 2 . 8 . 5 - 1 . 3 . 2 </ serviceVer
sion >
     </ supportSer  viceList >
     < supportSer  viceList >
        < serviceDis  playName > YARN </ serviceDis  playName >
        < serviceEcm  Version > 2 . 8 . 5 . 2 . 0 - cl </ serviceEcm
Version >
        < serviceNam  e > YARN </ serviceNam  e >
        < serviceVer  sion > 2 . 8 . 5 - 1 . 3 . 2 </ serviceVer
sion >
     </ supportSer  viceList >
     < supportSer  viceList >
        < serviceDis  playName > Hive </ serviceDis  playName >
        < serviceEcm  Version > 3 . 1 . 1 . 3 . 0 </ serviceEcm
Version >
        < serviceNam  e > HIVE </ serviceNam  e >
        < serviceVer  sion > 3 . 1 . 1 - 1 . 1 . 6 </ serviceVer
sion >
     </ supportSer  viceList >
     < supportSer  viceList >
        < serviceDis  playName > HBase </ serviceDis  playName >
        < serviceEcm  Version > 1 . 4 . 9 . 1 . 2 </ serviceEcm
Version >
        < serviceNam  e > HBASE </ serviceNam  e >
        < serviceVer  sion > 1 . 4 . 9 - 1 . 0 . 0 </ serviceVer
sion >
     </ supportSer  viceList >
     < supportSer  viceList >
        < serviceDis  playName > Spark </ serviceDis  playName >
        < serviceEcm  Version > 2 . 4 . 3 . 1 . 1 </ serviceEcm
Version >
        < serviceNam  e > SPARK </ serviceNam  e >
        < serviceVer  sion > 2 . 4 . 3 - 1 . 1 . 0 </ serviceVer
sion >
     </ supportSer  viceList >
     < supportSer  viceList >
        < serviceDis  playName > Pig </ serviceDis  playName >
```

```
        < serviceEcm  Version > 0 . 14 . 0 . 1 . 1 </ serviceEcm
Version >
        < serviceNam  e > PIG </ serviceNam  e >
        < serviceVer  sion > 0 . 14 . 0 </ serviceVer  sion >
     </ supportSer  viceList >
     < supportSer  viceList >
        < serviceDis  playName > Phoenix </ serviceDis  playName >
        < serviceEcm  Version > 4 . 14 . 1 . 1 . 1 </ serviceEcm
Version >
        < serviceNam  e > PHOENIX </ serviceNam  e >
        < serviceVer  sion > 4 . 14 . 1 </ serviceVer  sion >
     </ supportSer  viceList >
     < supportSer  viceList >
        < serviceDis  playName > Sqoop </ serviceDis  playName >
        < serviceEcm  Version > 1 . 4 . 7 . 1 . 2 </ serviceEcm
Version >
        < serviceNam  e > SQOOP </ serviceNam  e >
        < serviceVer  sion > 1 . 4 . 7 - 1 . 0 . 0 </ serviceVer
sion >
     </ supportSer  viceList >
     < supportSer  viceList >
        < serviceDis  playName > Tez </ serviceDis  playName >
        < serviceEcm  Version > 0 . 9 . 1 . 5 . 2 </ serviceEcm
Version >
        < serviceNam  e > TEZ </ serviceNam  e >
        < serviceVer  sion > 0 . 9 . 1 - 1 . 1 . 0 </ serviceVer
sion >
     </ supportSer  viceList >
     < supportSer  viceList >
        < serviceDis  playName > Hue </ serviceDis  playName >
        < serviceEcm  Version > 4 . 4 . 0 . 1 . 0 </ serviceEcm
Version >
        < serviceNam  e > HUE </ serviceNam  e >
        < serviceVer  sion > 4 . 4 . 0 </ serviceVer  sion >
     </ supportSer  viceList >
     < supportSer  viceList >
        < serviceDis  playName > Zeppelin </ serviceDis  playName >
        < serviceEcm  Version > 0 . 8 . 1 . 1 . 2 </ serviceEcm
Version >
        < serviceNam  e > ZEPPELIN </ serviceNam  e >
        < serviceVer  sion > 0 . 8 . 1 - 1 . 0 . 0 </ serviceVer
sion >
     </ supportSer  viceList >
     < supportSer  viceList >
        < serviceDis  playName > Storm </ serviceDis  playName >
        < serviceEcm  Version > 1 . 2 . 2 . 1 . 1 </ serviceEcm
Version >
        < serviceNam  e > STORM </ serviceNam  e >
        < serviceVer  sion > 1 . 2 . 2 </ serviceVer  sion >
     </ supportSer  viceList >
     < supportSer  viceList >
        < serviceDis  playName > ApacheDS </ serviceDis  playName >
        < serviceEcm  Version > 2 . 0 . 0 . 1 . 1 </ serviceEcm
Version >
        < serviceNam  e > APACHEDS </ serviceNam  e >
        < serviceVer  sion > 2 . 0 . 0 </ serviceVer  sion >
     </ supportSer  viceList >
     < supportSer  viceList >
        < serviceDis  playName > Knox </ serviceDis  playName >
        < serviceEcm  Version > 1 . 1 . 0 . 1 . 6 </ serviceEcm
Version >
        < serviceNam  e > KNOX </ serviceNam  e >
        < serviceVer  sion > 1 . 1 . 0 - 1 . 0 . 2 </ serviceVer
sion >
```

```
      </ supportSer  viceList >
      < supportSer  viceList >
         < serviceDis  playName > Flink </ serviceDis  playName >
         < serviceEcm  Version > 1 . 7 . 2 . 2 . 0 </ serviceEcm
 Version >
         < serviceNam  e > FLINK </ serviceNam  e >
         < serviceVer  sion > 1 . 7 . 2 - 2 . 8 . 5 - 1 . 0 . 0 </
 serviceVer  sion >
      </ supportSer  viceList >
      < supportSer  viceList >
         < serviceDis  playName > RANGER </ serviceDis  playName >
         < serviceEcm  Version > 1 . 2 . 0 . 2 . 2 </ serviceEcm
 Version >
         < serviceNam  e > RANGER </ serviceNam  e >
         < serviceVer  sion > 1 . 2 . 0 - 1 . 0 . 0 </ serviceVer
 sion >
      </ supportSer  viceList >
      < supportSer  viceList >
         < serviceDis  playName > Superset </ serviceDis  playName >
         < serviceEcm  Version > 0 . 28 . 1 . 2 . 0 </ serviceEcm
 Version >
         < serviceNam  e > SUPERSET </ serviceNam  e >
         < serviceVer  sion > 0 . 28 . 1 </ serviceVer  sion >
      </ supportSer  viceList >
      < supportSer  viceList >
         < serviceDis  playName > analytics - zoo </ serviceDis
 playName >
         < serviceEcm  Version > 0 . 5 . 0 . 1 . 0 </ serviceEcm
 Version >
         < serviceNam  e > ANALYTICS - ZOO </ serviceNam  e >
         < serviceVer  sion > 0 . 5 . 0 </ serviceVer  sion >
      </ supportSer  viceList >
      < supportSer  viceList >
         < serviceDis  playName > LIVY </ serviceDis  playName >
         < serviceEcm  Version > 0 . 6 . 0 . 1 . 0 </ serviceEcm
 Version >
         < serviceNam  e > LIVY </ serviceNam  e >
         < serviceVer  sion > 0 . 6 . 0 - 1 . 0 . 0 </ serviceVer
 sion >
      </ supportSer  viceList >
      < supportSer  viceList >
         < serviceDis  playName > Flume </ serviceDis  playName >
         < serviceEcm  Version > 1 . 8 . 0 . 4 . 1 </ serviceEcm
 Version >
         < serviceNam  e > FLUME </ serviceNam  e >
         < serviceVer  sion > 1 . 8 . 0 - 1 . 3 . 1 </ serviceVer
 sion >
      </ supportSer  viceList >
      < totalCount > EMR </ totalCount >
   </ data >
   < success > true </ success >
</ ListCluste  rSupportSe  rviceRespo  nse >
```

`JSON` format

```
{
 " data ":{
  " totalCount ":" EMR ",
  " requestId ":" EA5FB7F2 - BDDA - 49C8 - B9ED - 9C4D3F5D27  E8 ",
  " pageNumber ":" 3 . 22 . 0 . 1 . 0 - cl ",
  " supportSer  viceList ":[
   {
    " serviceEcm  Version ":" 1 . 0 . 0 . 1 . 2 ",
```

```
    " serviceVer  sion ":" 1 . 0 . 0 ",
    " serviceDis  playName ":" BigBoot ",
    " serviceNam  e ":" BIGBOOT "
   },
   {
    " serviceEcm  Version ":" 1 . 0 . 0 . 1 . 5 ",
    " serviceVer  sion ":" 1 . 0 . 0 ",
    " serviceDis  playName ":" SmartData ",
    " serviceNam  e ":" SMARTDATA "
   },
   {
    " serviceEcm  Version ":" 3 . 7 . 2 . 9 . 7 ",
    " serviceVer  sion ":" 3 . 7 . 2 ",
    " serviceDis  playName ":" Ganglia ",
    " serviceNam  e ":" GANGLIA "
   },
   {
    " serviceEcm  Version ":" 2 . 12 . 2 . 0 . 1 . 4 ",
    " serviceVer  sion ":" 2 . 12 . 2 - 1 . 0 . 0 ",
    " serviceDis  playName ":" Impala ",
    " serviceNam  e ":" IMPALA "
   },
   {
    " serviceEcm  Version ":" 0 . 213 . 0 . 1 . 5 ",
    " serviceVer  sion ":" 0 . 213 ",
    " serviceDis  playName ":" Presto ",
    " serviceNam  e ":" PRESTO "
   },
   {
    " serviceEcm  Version ":" 5 . 1 . 0 . 0 . 2 ",
    " serviceVer  sion ":" 5 . 1 . 0 ",
    " serviceDis  playName ":" Oozie ",
    " serviceNam  e ":" OOZIE "
   },
   {
    " serviceEcm  Version ":" 3 . 4 . 13 . 2 . 1 ",
    " serviceVer  sion ":" 3 . 4 . 13 ",
    " serviceDis  playName ":" ZooKeeper ",
    " serviceNam  e ":" ZOOKEEPER "
   },
   {
    " serviceEcm  Version ":" 2 . 8 . 5 . 2 . 0 - cl ",
    " serviceVer  sion ":" 2 . 8 . 5 - 1 . 3 . 2 ",
    " serviceDis  playName ":" HDFS ",
    " serviceNam  e ":" HDFS "
   },
   {
    " serviceEcm  Version ":" 2 . 8 . 5 . 2 . 0 - cl ",
    " serviceVer  sion ":" 2 . 8 . 5 - 1 . 3 . 2 ",
    " serviceDis  playName ":" YARN ",
    " serviceNam  e ":" YARN "
   },
   {
    " serviceEcm  Version ":" 3 . 1 . 1 . 3 . 0 ",
    " serviceVer  sion ":" 3 . 1 . 1 - 1 . 1 . 6 ",
    " serviceDis  playName ":" Hive ",
    " serviceNam  e ":" HIVE "
   },
   {
    " serviceEcm  Version ":" 1 . 4 . 9 . 1 . 2 ",
    " serviceVer  sion ":" 1 . 4 . 9 - 1 . 0 . 0 ",
    " serviceDis  playName ":" HBase ",
    " serviceNam  e ":" HBASE "
   },
```

```
    {
     " serviceEcm  Version ":" 2 . 4 . 3 . 1 . 1 ",
     " serviceVer  sion ":" 2 . 4 . 3 - 1 . 1 . 0 ",
     " serviceDis  playName ":" Spark ",
     " serviceNam  e ":" SPARK "
    },
    {
     " serviceEcm  Version ":" 0 . 14 . 0 . 1 . 1 ",
     " serviceVer  sion ":" 0 . 14 . 0 ",
     " serviceDis  playName ":" Pig ",
     " serviceNam  e ":" PIG "
    },
    {
     " serviceEcm  Version ":" 4 . 14 . 1 . 1 . 1 ",
     " serviceVer  sion ":" 4 . 14 . 1 ",
     " serviceDis  playName ":" Phoenix ",
     " serviceNam  e ":" PHOENIX "
    },
    {
     " serviceEcm  Version ":" 1 . 4 . 7 . 1 . 2 ",
     " serviceVer  sion ":" 1 . 4 . 7 - 1 . 0 . 0 ",
     " serviceDis  playName ":" Sqoop ",
     " serviceNam  e ":" SQOOP "
    },
    {
     " serviceEcm  Version ":" 0 . 9 . 1 . 5 . 2 ",
     " serviceVer  sion ":" 0 . 9 . 1 - 1 . 1 . 0 ",
     " serviceDis  playName ":" Tez ",
     " serviceNam  e ":" TEZ "
    },
    {
     " serviceEcm  Version ":" 4 . 4 . 0 . 1 . 0 ",
     " serviceVer  sion ":" 4 . 4 . 0 ",
     " serviceDis  playName ":" Hue ",
     " serviceNam  e ":" HUE "
    },
    {
     " serviceEcm  Version ":" 0 . 8 . 1 . 1 . 2 ",
     " serviceVer  sion ":" 0 . 8 . 1 - 1 . 0 . 0 ",
     " serviceDis  playName ":" Zeppelin ",
     " serviceNam  e ":" ZEPPELIN "
    },
    {
     " serviceEcm  Version ":" 1 . 2 . 2 . 1 . 1 ",
     " serviceVer  sion ":" 1 . 2 . 2 ",
     " serviceDis  playName ":" Storm ",
     " serviceNam  e ":" STORM "
    },
    {
     " serviceEcm  Version ":" 2 . 0 . 0 . 1 . 1 ",
     " serviceVer  sion ":" 2 . 0 . 0 ",
     " serviceDis  playName ":" ApacheDS ",
     " serviceNam  e ":" APACHEDS "
    },
    {
     " serviceEcm  Version ":" 1 . 1 . 0 . 1 . 6 ",
     " serviceVer  sion ":" 1 . 1 . 0 - 1 . 0 . 2 ",
     " serviceDis  playName ":" Knox ",
     " serviceNam  e ":" KNOX "
    },
    {
     " serviceEcm  Version ":" 1 . 7 . 2 . 2 . 0 ",
     " serviceVer  sion ":" 1 . 7 . 2 - 2 . 8 . 5 - 1 . 0 . 0 ",
     " serviceDis  playName ":" Flink ",
```

```
    " serviceNam  e ":" FLINK "
   },
   {
    " serviceEcm  Version ":" 1 . 2 . 0 . 2 . 2 ",
    " serviceVer  sion ":" 1 . 2 . 0 - 1 . 0 . 0 ",
    " serviceDis  playName ":" RANGER ",
    " serviceNam  e ":" RANGER "
   },
   {
    " serviceEcm  Version ":" 0 . 28 . 1 . 2 . 0 ",
    " serviceVer  sion ":" 0 . 28 . 1 ",
    " serviceDis  playName ":" Superset ",
    " serviceNam  e ":" SUPERSET "
   },
   {
    " serviceEcm  Version ":" 0 . 5 . 0 . 1 . 0 ",
    " serviceVer  sion ":" 0 . 5 . 0 ",
    " serviceDis  playName ":" analytics - zoo ",
    " serviceNam  e ":" ANALYTICS - ZOO "
   },
   {
    " serviceEcm  Version ":" 0 . 6 . 0 . 1 . 0 ",
    " serviceVer  sion ":" 0 . 6 . 0 - 1 . 0 . 0 ",
    " serviceDis  playName ":" LIVY ",
    " serviceNam  e ":" LIVY "
   },
   {
    " serviceEcm  Version ":" 1 . 8 . 0 . 4 . 1 ",
    " serviceVer  sion ":" 1 . 8 . 0 - 1 . 3 . 1 ",
    " serviceDis  playName ":" Flume ",
    " serviceNam  e ":" FLUME "
   }
  ]
 },
 " code ":" 200 ",
 " success ": true
}
```

Error codes

For more information about error codes, see API Error Center.

4.17 ListClusterService

You can call this operation to view the services on a cluster.

Request parameters

Parameter	Type	Required	Example	Description
ClusterId	String	Yes	C-F32FB31D82954C64	The ID of the cluster.
RegionId	String	Yes	cn-hangzhou	The region location ID.

Parameter	Type	Required	Example	Description
PageNumber	Integer	No	1	The page number to query.
PageSize	Integer	No	100	The number of records to show on each page.
AccessKeyId	String	No	xxx	The AccessKey ID.

Response parameters

Name	Type	Example	Description
RequestId	String	DF202AC2-5D5D-4288-B608-B7B1595B5C7C	The ID of the request.
TotalCount	Integer	1	The total number of records.
PageNumber	Integer	1	The current page number.
PageSize	Integer	100	The number of records that are shown on each page.
ClusterServiceList			The list of services on the cluster.
ServiceName	String	HDFS	The name of the service.
ServiceDisplayName	String	HDFS	The displayed name of the service.
ServiceVersion	String	2.7.2	The version of the service.
InstallStatus	Boolean	true	The installation status. Indicates whether the service has been installed on the cluster.

Name	Type	Example	Description
ClientType	Boolean	false	Indicates whether the component needs to start processes.
ServiceStatus	String	INSTALLED	The status of the service.
HealthStatus	String	""	The health status of the components.
NeedRestartInfo	String	""	Indicates whether the components need to be restarted.
NotStartInfo	String	""	The information about the components that are not restarted.
AbnormalNum	Integer	0	The number of abnormal components.
StoppedNum	Integer	0	The number of stopped components.
NeedRestartNum	Integer	0	The number of components that need to be restarted.
ServiceActionList			The actions supported by the service.
ServiceName	String	YARN	The name of the service.
ComponentName	String	ResourceManager	The name of the component.
ActionName	String	CUSTOM_COMMAND	The name of the action.

Name	Type	Example	Description
Command	String	refreshQueues	The command. You need to specify this parameter when the value of Action is CUSTOM_COMMAND.
DisplayName	String	Refresh Queues	The displayed name.

Examples

- **Sample requests**

```
/?  ClusterId = C - F32FB31D82  954C64
& RegionId = cn - hangzhou
& AccessKeyI  d = 111
& PageNumber = 1
& PageSize = 100
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
 " ClusterSer  viceList ":{
  " ClusterSer  vice ":[
   {
    " AbnormalNu  m ": 0 ,
    " ClientType ": false ,
    " HealthStat  us ":"",
    " InstallSta  tus ": true ,
    " NeedRestar  tInfo ":"",
    " NeedRestar  tNum ": 0 ,
    " NotStartIn  fo ":" Have   0   component ( s )  not   started
 .",
    " ServiceAct  ionList ":{
     " ServiceAct  ion ":[
      {
       " ActionName ":" CONFIGURE ",
       " ComponentN  ame ":" ALL   COMPONENTS ",
       " DisplayNam  e ":" CONFIGURE   All   Components ",
       " ServiceNam  e ":" HDFS "
      },
      {
       " ActionName ":" START ",
       " ComponentN  ame ":" ALL   COMPONENTS ",
       " DisplayNam  e ":" START   All   Components ",
       " ServiceNam  e ":" HDFS "
      },
      {
       " ActionName ":" STOP ",
       " ComponentN  ame ":" ALL   COMPONENTS ",
       " DisplayNam  e ":" STOP   All   Components ",
       " ServiceNam  e ":" HDFS "
```

```
      },
      {
       " ActionName ":" RESTART ",
       " ComponentN  ame ":" ALL   COMPONENTS ",
       " DisplayNam  e ":" RESTART   All   Components ",
       " ServiceNam  e ":" HDFS "
      },
      {
       " ActionName ":" RESTART ",
       " ComponentN  ame ":" DataNode ",
       " DisplayNam  e ":" RESTART   DataNode ",
       " ServiceNam  e ":" HDFS "
      },
      {
       " ActionName ":" RESTART ",
       " ComponentN  ame ":" HttpFS ",
       " DisplayNam  e ":" RESTART   HttpFS ",
       " ServiceNam  e ":" HDFS "
      },
      {
       " ActionName ":" RESTART ",
       " ComponentN  ame ":" KMS ",
       " DisplayNam  e ":" RESTART   KMS ",
       " ServiceNam  e ":" HDFS "
      },
      {
       " ActionName ":" RESTART ",
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       {
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        " ComponentN  ame ":" ApacheDS ",
        " DisplayNam  e ":" RESTART   ApacheDS ",
        " ServiceNam  e ":" APACHEDS "
       }
      ]
     },
     " ServiceDis  playName ":" ApacheDS ",
     " ServiceNam  e ":" APACHEDS ",
```

```
    " ServiceSta  tus ":" INSTALLED ",
    " ServiceVer  sion ":" 2 . 0 . 0 ",
    " StoppedNum ": 0
   },
   {
    " AbnormalNu  m ": 0 ,
    " ClientType ": false ,
    " HealthStat  us ":"",
    " InstallSta  tus ": true ,
    " NeedRestar  tInfo ":"",
    " NeedRestar  tNum ": 0 ,
    " NotStartIn  fo ":"",
    " ServiceAct  ionList ":{
     " ServiceAct  ion ":[
      {
       " ActionName ":" CONFIGURE ",
       " ComponentN  ame ":" ALL   COMPONENTS ",
       " DisplayNam  e ":" CONFIGURE   All   Components ",
       " ServiceNam  e ":" KNOX "
      },
      {
       " ActionName ":" START ",
       " ComponentN  ame ":" ALL   COMPONENTS ",
       " DisplayNam  e ":" START   All   Components ",
       " ServiceNam  e ":" KNOX "
      },
      {
       " ActionName ":" STOP ",
       " ComponentN  ame ":" ALL   COMPONENTS ",
       " DisplayNam  e ":" STOP   All   Components ",
       " ServiceNam  e ":" KNOX "
      },
      {
       " ActionName ":" RESTART ",
       " ComponentN  ame ":" ALL   COMPONENTS ",
       " DisplayNam  e ":" RESTART   All   Components ",
       " ServiceNam  e ":" KNOX "
      },
      {
       " ActionName ":" RESTART ",
       " ComponentN  ame ":" KNOX ",
       " DisplayNam  e ":" RESTART   Knox ",
       " ServiceNam  e ":" KNOX "
      }
     ]
    },
    " ServiceDis  playName ":" Knox ",
    " ServiceNam  e ":" KNOX ",
    " ServiceSta  tus ":" INSTALLED ",
    " ServiceVer  sion ":" 0 . 13 . 0 ",
    " StoppedNum ": 0
   },
   {
    " HealthStat  us ":"",
    " InstallSta  tus ": false ,
    " NeedRestar  tInfo ":"",
    " NotStartIn  fo ":"",
    " ServiceAct  ionList ":{
     " ServiceAct  ion ":[]
    },
    " ServiceDis  playName ":" Flink ",
    " ServiceNam  e ":" FLINK ",
    " ServiceSta  tus ":"",
    " ServiceVer  sion ":" 1 . 4 . 0 "
```

```
    },
    {
     " HealthStat  us ":"",
     " InstallSta  tus ": false ,
     " NeedRestar  tInfo ":"",
     " NotStartIn  fo ":"",
     " ServiceAct  ionList ":{
      " ServiceAct  ion ":[]
     },
     " ServiceDis  playName ":" RANGER ",
     " ServiceNam  e ":" RANGER ",
     " ServiceSta  tus ":"",
     " ServiceVer  sion ":" 1 . 0 . 0 "
    },
    {
     " HealthStat  us ":"",
     " InstallSta  tus ": false ,
     " NeedRestar  tInfo ":"",
     " NotStartIn  fo ":"",
     " ServiceAct  ionList ":{
      " ServiceAct  ion ":[]
     },
     " ServiceDis  playName ":" Druid ",
     " ServiceNam  e ":" DRUID ",
     " ServiceSta  tus ":"",
     " ServiceVer  sion ":" 0 . 12 . 3 - 1 . 0 . 0 "
    },
    {
     " HealthStat  us ":"",
     " InstallSta  tus ": false ,
     " NeedRestar  tInfo ":"",
     " NotStartIn  fo ":"",
     " ServiceAct  ionList ":{
      " ServiceAct  ion ":[]
     },
     " ServiceDis  playName ":" Superset ",
     " ServiceNam  e ":" SUPERSET ",
     " ServiceSta  tus ":"",
     " ServiceVer  sion ":" 0 . 26 . 3 "
    },
    {
     " HealthStat  us ":"",
     " InstallSta  tus ": false ,
     " NeedRestar  tInfo ":"",
     " NotStartIn  fo ":"",
     " ServiceAct  ionList ":{
      " ServiceAct  ion ":[]
     },
     " ServiceDis  playName ":" analytics - zoo ",
     " ServiceNam  e ":" ANALYTICS - ZOO ",
     " ServiceSta  tus ":"",
     " ServiceVer  sion ":" 0 . 2 . 0 "
    },
    {
     " HealthStat  us ":"",
     " InstallSta  tus ": false ,
     " NeedRestar  tInfo ":"",
     " NotStartIn  fo ":"",
     " ServiceAct  ionList ":{
      " ServiceAct  ion ":[]
     },
     " ServiceDis  playName ":" Jupyter ",
     " ServiceNam  e ":" JUPYTER ",
     " ServiceSta  tus ":"",
```

```
    " ServiceVer  sion ":" 4 . 4 . 0 "
   },
   {
    " HealthStat  us ":"",
    " InstallSta  tus ": false ,
    " NeedRestar  tInfo ":"",
    " NotStartIn  fo ":"",
    " ServiceAct  ionList ":{
     " ServiceAct  ion ":[]
    },
    " ServiceDis  playName ":" LIVY ",
    " ServiceNam  e ":" LIVY ",
    " ServiceSta  tus ":"",
    " ServiceVer  sion ":" 0 . 5 . 0 "
   },
   {
    " AbnormalNu  m ": 0 ,
    " ClientType ": false ,
    " HealthStat  us ":"",
    " InstallSta  tus ": true ,
    " NeedRestar  tInfo ":"",
    " NeedRestar  tNum ": 0 ,
    " NotStartIn  fo ":"",
    " ServiceAct  ionList ":{
     " ServiceAct  ion ":[
      {
       " ActionName ":" CONFIGURE ",
       " ComponentN  ame ":" ALL   COMPONENTS ",
       " DisplayNam  e ":" CONFIGURE   All   Components ",
       " ServiceNam  e ":" ILOGTAIL "
      },
      {
       " ActionName ":" START ",
       " ComponentN  ame ":" ALL   COMPONENTS ",
       " DisplayNam  e ":" START   All   Components ",
       " ServiceNam  e ":" ILOGTAIL "
      },
      {
       " ActionName ":" STOP ",
       " ComponentN  ame ":" ALL   COMPONENTS ",
       " DisplayNam  e ":" STOP   All   Components ",
       " ServiceNam  e ":" ILOGTAIL "
      },
      {
       " ActionName ":" RESTART ",
       " ComponentN  ame ":" ALL   COMPONENTS ",
       " DisplayNam  e ":" RESTART   All   Components ",
       " ServiceNam  e ":" ILOGTAIL "
      },
      {
       " ActionName ":" RESTART ",
       " ComponentN  ame ":" Ilogtaild ",
       " DisplayNam  e ":" RESTART   ilogtaild ",
       " ServiceNam  e ":" ILOGTAIL "
      }
     ]
    },
    " ServiceDis  playName ":" ILOGTAIL ",
    " ServiceNam  e ":" ILOGTAIL ",
    " ServiceSta  tus ":" INSTALLED ",
    " ServiceVer  sion ":" 1 . 0 . 0 ",
    " StoppedNum ": 0
   },
   {
```

```
    " AbnormalNu  m ": 0 ,
    " ClientType ": false ,
    " HealthStat  us ":"",
    " InstallSta  tus ": true ,
    " NeedRestar  tInfo ":"",
    " NeedRestar  tNum ": 0 ,
    " NotStartIn  fo ":"",
    " ServiceAct  ionList ":{
     " ServiceAct  ion ":[
      {
       " ActionName ":" CONFIGURE ",
       " ComponentN  ame ":" ALL   COMPONENTS ",
       " DisplayNam  e ":" CONFIGURE   All   Components ",
       " ServiceNam  e ":" EMRFLOW "
      },
      {
       " ActionName ":" START ",
       " ComponentN  ame ":" ALL   COMPONENTS ",
       " DisplayNam  e ":" START   All   Components ",
       " ServiceNam  e ":" EMRFLOW "
      },
      {
       " ActionName ":" STOP ",
       " ComponentN  ame ":" ALL   COMPONENTS ",
       " DisplayNam  e ":" STOP   All   Components ",
       " ServiceNam  e ":" EMRFLOW "
      },
      {
       " ActionName ":" RESTART ",
       " ComponentN  ame ":" ALL   COMPONENTS ",
       " DisplayNam  e ":" RESTART   All   Components ",
       " ServiceNam  e ":" EMRFLOW "
      },
      {
       " ActionName ":" RESTART ",
       " ComponentN  ame ":" FlowAgentD  aemon ",
       " DisplayNam  e ":" RESTART   Flow   Agent   Daemon ",
       " ServiceNam  e ":" EMRFLOW "
      },
      {
       " ActionName ":" RESTART ",
       " ComponentN  ame ":" MetaComman  d ",
       " DisplayNam  e ":" RESTART   Emr   Meta   Command ",
       " ServiceNam  e ":" EMRFLOW "
      },
      {
       " ActionName ":" CUSTOM_COM  MAND ",
       " Command ":" do_ops ",
       " ComponentN  ame ":" MetaComman  d ",
       " DisplayNam  e ":" metacli   ops ",
       " ServiceNam  e ":" EMRFLOW "
      }
     ]
    },
    " ServiceDis  playName ":" EmrFlow ",
    " ServiceNam  e ":" EMRFLOW ",
    " ServiceSta  tus ":" INSTALLED ",
    " ServiceVer  sion ":" 1 . 2 . 1 . 0 . 5 ",
    " StoppedNum ": 0
   }
  ]
 },
 " RequestId ":" 3F11150E - 0F33 - 41DC - AE2B - C3675C9743  BA "
```

```
}
```

- Error response examples

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

4.18 ListClusterServiceComponentHealthInfo

You can call this operation to view the health information of the components of a specified service.

Request parameters

Parameter	Type	Required	Example	Description
ClusterId	String	Yes	C-F32FB31D82954C64	The ID of the cluster.
ServiceName	string	No	TEZ	The name of the service.
RegionId	String	Yes	cn-hangzhou	The region ID.
AccessKeyId	String	Yes	LTAI8ljWyu7y****	The AccessKey ID.

Response parameters

Parameter	Type	Example	Description
RequestId	String	DF202AC2-5D5D-4288-B608-B7B1595B5C7C	The ID of the request.
ClusterId	String	C-F32FB31D82954C64	The ID of the cluster.
HealthInfoList			The list of health information.

Parameter	Type	Example	Description
ServiceName	String	YARN	The name of the service.
ComponentName	String	ResourceManger	The name of the component.
HealthLevel	String	NORMAL	The level of health.
StoppedNum	Integer	0	The number of components that stop running.
ManualStoppedNum	Integer	0	The number of components that are manually stopped.
NormalNum	Integer	7	The number of normal components.
TotalNum	Integer	7	The total number of components.
AgentHeartBeatLostNum	Integer	0	The number of hosts on which the agents have lost heartbeats.
HealthDetailList			The details of health.
code	String	200	The error code.
HealthRuleParam			The parameter of the health rule.
Service	String	YARN	The name of the service.
Component	String	Ecm-Agent	The name of the component.
RuleTitle	String	AgentHeartBeatCheck	The title of the health rule.
Pass	String	""	The information about the passed check.
RuleId	String	111	The ID of the rule.

Parameter	Type	Example	Description
RuleDescription	String	Agent monitoring	The description of the rule.
HostNames	String	emr-worker-1	The hostname.

Examples

- **Sample requests**

```
/?  ClusterId = C - F32FB31D82  954C64
& RegionId = ccn - hangzhou
& AccessKeyI  d = LTAI8ljWyu  7y ****
& ServiceNam  e = TEZ
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
 " ClusterId ":" C - F7CBF0B43D  983FDB ",
 " HealthInfo  List ":{
  " HealthInfo ":[
   {
    " AgentHeart  BeatLostNu  m ": 0 ,
    " HealthDeta  ilList ":{
     " HealthDeta  il ":[]
    },
    " HealthLeve  l ":" NORMAL ",
    " ManualStop  pedNum ": 0 ,
    " NormalNum ": 7 ,
    " ServiceNam  e ":" EMR - MONITOR ",
    " StoppedNum ": 0 ,
    " TotalNum ": 7
   },
   {
    " AgentHeart  BeatLostNu  m ": 0 ,
    " HealthDeta  ilList ":{
     " HealthDeta  il ":[]
    },
    " HealthLeve  l ":" NORMAL ",
    " ManualStop  pedNum ": 0 ,
    " NormalNum ": 8 ,
    " ServiceNam  e ":" GANGLIA ",
    " StoppedNum ": 0 ,
    " TotalNum ": 8
   },
   {
    " AgentHeart  BeatLostNu  m ": 0 ,
    " HealthDeta  ilList ":{
     " HealthDeta  il ":[]
    },
    " HealthLeve  l ":" NORMAL ",
    " ManualStop  pedNum ": 0 ,
    " NormalNum ": 4 ,
    " ServiceNam  e ":" EMRDOCTOR ",
    " StoppedNum ": 0 ,
    " TotalNum ": 4
```

```
    },
    {
     " AgentHeart  BeatLostNu  m ": 0 ,
     " HealthDeta  ilList ":{
      " HealthDeta  il ":[]
     },
     " HealthLeve  l ":" NORMAL ",
     " ManualStop  pedNum ": 0 ,
     " NormalNum ": 1 ,
     " ServiceNam  e ":" MYSQL ",
     " StoppedNum ": 0 ,
     " TotalNum ": 1
    },
    {
     " AgentHeart  BeatLostNu  m ": 0 ,
     " HealthDeta  ilList ":{
      " HealthDeta  il ":[]
     },
     " HealthLeve  l ":" NORMAL ",
     " ManualStop  pedNum ": 0 ,
     " NormalNum ": 3 ,
     " ServiceNam  e ":" SQOOP ",
     " StoppedNum ": 0 ,
     " TotalNum ": 3
    },
    {
     " AgentHeart  BeatLostNu  m ": 0 ,
     " HealthDeta  ilList ":{
      " HealthDeta  il ":[]
     },
     " HealthLeve  l ":" NORMAL ",
     " ManualStop  pedNum ": 0 ,
     " NormalNum ": 1 ,
     " ServiceNam  e ":" APACHEDS ",
     " StoppedNum ": 0 ,
     " TotalNum ": 1
    },
    {
     " AgentHeart  BeatLostNu  m ": 0 ,
     " HealthDeta  ilList ":{
      " HealthDeta  il ":[]
     },
     " HealthLeve  l ":" NORMAL ",
     " ManualStop  pedNum ": 0 ,
     " NormalNum ": 3 ,
     " ServiceNam  e ":" ILOGTAIL ",
     " StoppedNum ": 0 ,
     " TotalNum ": 3
    },
    {
     " AgentHeart  BeatLostNu  m ": 0 ,
     " HealthDeta  ilList ":{
      " HealthDeta  il ":[]
     },
     " HealthLeve  l ":" NORMAL ",
     " ManualStop  pedNum ": 2 ,
     " NormalNum ": 7 ,
     " ServiceNam  e ":" HDFS ",
     " StoppedNum ": 2 ,
     " TotalNum ": 9
    },
    {
     " AgentHeart  BeatLostNu  m ": 0 ,
     " HealthDeta  ilList ":{
```

```
      " HealthDeta  il ":[]
     },
     " HealthLeve  l ":" NORMAL ",
     " ManualStop  pedNum ": 0 ,
     " NormalNum ": 4 ,
     " ServiceNam  e ":" TEZ ",
     " StoppedNum ": 0 ,
     " TotalNum ": 4
    },
    {
     " AgentHeart  BeatLostNu  m ": 0 ,
     " HealthDeta  ilList ":{
      " HealthDeta  il ":[]
     },
     " HealthLeve  l ":" NORMAL ",
     " ManualStop  pedNum ": 0 ,
     " NormalNum ": 5 ,
     " ServiceNam  e ":" SPARK ",
     " StoppedNum ": 0 ,
     " TotalNum ": 5
    },
    {
     " AgentHeart  BeatLostNu  m ": 0 ,
     " HealthDeta  ilList ":{
      " HealthDeta  il ":[]
     },
     " HealthLeve  l ":" NORMAL ",
     " ManualStop  pedNum ": 0 ,
     " NormalNum ": 1 ,
     " ServiceNam  e ":" HAPROXY ",
     " StoppedNum ": 0 ,
     " TotalNum ": 1
    },
    {
     " AgentHeart  BeatLostNu  m ": 0 ,
     " HealthDeta  ilList ":{
      " HealthDeta  il ":[]
     },
     " HealthLeve  l ":" NORMAL ",
     " ManualStop  pedNum ": 0 ,
     " NormalNum ": 6 ,
     " ServiceNam  e ":" PRESTO ",
     " StoppedNum ": 0 ,
     " TotalNum ": 6
    },
    {
     " AgentHeart  BeatLostNu  m ": 0 ,
     " HealthDeta  ilList ":{
      " HealthDeta  il ":[]
     },
     " HealthLeve  l ":" NORMAL ",
     " ManualStop  pedNum ": 0 ,
     " NormalNum ": 9 ,
     " ServiceNam  e ":" YARN ",
     " StoppedNum ": 0 ,
     " TotalNum ": 9
    },
    {
     " AgentHeart  BeatLostNu  m ": 0 ,
     " HealthDeta  ilList ":{
      " HealthDeta  il ":[]
     },
     " HealthLeve  l ":" NORMAL ",
     " ManualStop  pedNum ": 0 ,
```

```
    " NormalNum ": 5 ,
    " ServiceNam  e ":" EMRFLOW ",
    " StoppedNum ": 0 ,
    " TotalNum ": 5
   },
   {
    " AgentHeart  BeatLostNu  m ": 0 ,
    " HealthDeta  ilList ":{
     " HealthDeta  il ":[]
    },
    " HealthLeve  l ":" NORMAL ",
    " ManualStop  pedNum ": 0 ,
    " NormalNum ": 1 ,
    " ServiceNam  e ":" KNOX ",
    " StoppedNum ": 0 ,
    " TotalNum ": 1
   },
   {
    " AgentHeart  BeatLostNu  m ": 0 ,
    " HealthDeta  ilList ":{
     " HealthDeta  il ":[]
    },
    " HealthLeve  l ":" NORMAL ",
    " ManualStop  pedNum ": 0 ,
    " NormalNum ": 3 ,
    " ServiceNam  e ":" PIG ",
    " StoppedNum ": 0 ,
    " TotalNum ": 3
   },
   {
    " AgentHeart  BeatLostNu  m ": 0 ,
    " HealthDeta  ilList ":{
     " HealthDeta  il ":[]
    },
    " HealthLeve  l ":" NORMAL ",
    " ManualStop  pedNum ": 0 ,
    " NormalNum ": 5 ,
    " ServiceNam  e ":" HIVE ",
    " StoppedNum ": 0 ,
    " TotalNum ": 5
   },
   {
    " AgentHeart  BeatLostNu  m ": 0 ,
    " HealthDeta  ilList ":{
     " HealthDeta  il ":[]
    },
    " HealthLeve  l ":" NORMAL ",
    " ManualStop  pedNum ": 0 ,
    " NormalNum ": 1 ,
    " ServiceNam  e ":" HUE ",
    " StoppedNum ": 0 ,
    " TotalNum ": 1
   }
  ]
 },
 " RequestId ":" F695F08B - 6C37 - 482A - AA4F - 44A07B05CE  84 "
}
```


- **Error response examples**

  JSON format

```
{
```

```
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

4.19 ListClusterServiceConfigHistory

You can call this operation to view the configuration history of the specified service on a cluster.

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-F32FB31D82954C64	The ID of the cluster.
ServiceName	String	No	Tez.	The name of the service.
RegionId	String	Yes	cn-hangzhou	The region location ID.
ConfigVersion	String	No	0	The version of the configuration.
PageNumber	Integer	No	1	The page number to query.
PageSize	Integer	No	100	The number of records to show on each page.
AccessKeyId	String	No	xxx	The AccessKey ID.

Response parameters

Name	Type	Example	Description
RequestId	String	DF202AC2-5D5D-4288-B608-B7B1595B5C7C	The ID of the request.

Name	Type	Example	Description
TotalCount	Integer	30	The total number of records.
PageNumber	Integer	1	The current page number.
PageSize	Integer	100	The number of records shown on each page.
ConfigHistoryList			The list of configuration history.
ServiceName	String	TEZ	The name of the service.
ConfigVersion	String	15433205029440	The configuration version represente d as the timestamp of the modification time.
ConfigFileName	String	tez-site	The name of the configuration file.
ConfigItemName	String	tez.am.resource. memory.mb	The name of the configuration item.
NewValue	String	1280	The modified value.
OldValue	String	640	The origin value.
Applied	Boolean	true	Indicates whether the configuration takes effect.
CreateTime	Long	1543320503000	The modification time.
Author	String	1111	The name of the modifier.
Comment	String	modifyConfig	The comment for the modification.

Examples

- Sample requests

```
/?  ClusterId = C - F32FB31D82  954C64
```

```
& RegionId = cn - hangzhou
& AccessKeyI  d = 111
& ConfigVers  ion = 0
& PageNumber = 1
& PageSize = 100
& ServiceNam  e = TEZ
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
 " ConfigHist  oryList ":{
  " ConfigHist  ory ":[{
   " Applied ": true ,
   " Author ":" 1250460021  754461 ",
   " Comment ":" xxx ",
   " ConfigFile  Name ":" tez - site ",
   " ConfigItem  Name ":" tez . am . resource . memory . mb ",
   " ConfigVers  ion ":" 1543320502  944 ",
   " CreateTime ": 1543320503  000 ,
   " NewValue ":" 1280 ",
   " OldValue ":" 640 ",
   " ServiceNam  e ":" TEZ "
  }]
 },
 " PageNumber ": 1 ,
 " PageSize ": 500 ,
 " RequestId ":" 8CC97161 - 4A0C - 4EDB - 9799 - F0A51C40B0  70 ",
 " TotalCount ": 1 ,
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

4.20 ListResourcePool

You can call this operation to view the resource pools.

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-EBD62A703A430E23	The ID of the cluster.
RegionId	String	Yes	cn-hangzhou	The region location ID.
PoolType	String	No	CAPACITY_SCHEDULER	The type of the resource pool. Valid values: CAPACITY_SCHEDULER and FAIR_SCHEDULER.
AccessKeyId	String	No	xxx	The AccessKey ID.

Response parameters

Name	Type	Example	Description
RequestId	String	A544317F-4A60-4532-AC96-191B9D80420A	The ID of the request.
PageNumber	Integer	1	The current page number.
PageSize	Integer	100	The number of records shown on each page.
Total	Integer	10	The total number of records.
PoolInfoList			The list of resource pool information.
QueueList			The list of resource pool queues.

Name	Type	Example	Description
EcmResourcePoolConfigList			The list of resource pool configurations.
Id	Long	2926	The ID of the configuration item.
ConfigKey	String	minimum-user-limit-percent	The key of the configuration item.
ConfigValue	String	0	The value of the configuration item.
ConfigType	String	RESOURCE_QUEUE_CONFIG	The type of the configuration item.
Category	String	QUEUE_RESOURCE_LIMIT	The category of the configuration item.
Status	String	NORMAL	The status of the configuration item.
Note	String	test	The description of the configuration item.
EcmResourceQueue			The resource queue.
Id	Long	2928	The ID of the resource queue.
Name	String	DEFAULT2	The name of the resource queue.
QualifiedName	String	default	QualifiedName
QueueType	String	null	The type of the resource queue.
ParentQueueId	Long	116	The ID of the parent resource queue.
Leaf	Boolean	false	Indicates whether the queue node is a leaf node.
Status	String	NORMAL	The status of the queue.
UserId	String	15283423567645362	The account ID of the user.

Name	Type	Example	Description
ResourcePoolId	Long	116	The ID of the resource pool.
EcmResourcePoolConfigList			The list of resource pool configurations.
Id	Long	2926	The ID of the configuration item.
ConfigKey	String	minimum-user-limit-percent	The key of the configuration item.
ConfigValue	String	0	The value of the configuration item.
ConfigType	String	RESOURCE_QUEUE_CONFIG	The type of the configuration type.
Category	String	QUEUE_RESOURCE_LIMIT	The category of the configuration item.
Status	String	NORMAL	The status of the configuration item.
Note	String	test	The description of the configuration item.
EcmResourcePool			The resource pool.
Id	Long	116	The ID of the resource pool.
Name	String	DEFAULT	The name of the resource pool.
PoolType	String	CAPACITY_SCHEDULER	The type of the resource pool.
Active	Boolean	true	Indicates whether the resource pool is activated.
Note	String	test	The description of the resource pool.
UserId	String	15283423567645362	The account ID of the user.

Examples

- **Sample requests**

```
/?  ClusterId = C - EBD62A703A  430E23
& RegionId = cn - hangzhou
& AccessKeyI  d = xxx
& PoolType = CAPACITY_S  CHEDULER
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
    " code ":" 200 ",
    " data ":{
        " PoolInfoLi  st ":{
            " PoolInfo ":[
                {
                    " EcmResourc  ePool ":{
                        " Active ": true ,
                        " Id ": 116 ,
                        " Name ":" DEFAULT ",
                        " Note ":"",
                        " PoolType ":" CAPACITY_S  CHEDULER ",
                        " UserId ":" 1528342317  645362 ",
                        " YarnSiteCo  nfig ":""
                    },
                    " EcmResourc  ePoolConfi  gList ":{
                        " EcmResourc  ePoolConfi  g ":[]
                    },
                    " QueueList ":{
                        " Queue ":[{
                            " EcmResourc  ePoolConfi  gList ":{
                                " EcmResourc  ePoolConfi  g ":[
                                    {
                                        " Category ":" QUEUE_RESO
URCE_LIMIT ",
                                        " ConfigKey ":" capacity ",
                                        " ConfigType ":" RESOURCE_Q
UEUE_CONFI  G ",
                                        " ConfigValu  e ":" 100 ",
                                        " Id ": 2925 ,
                                        " Note ":"",
                                        " Status ":" NORMAL "
                                    },
                                    {
                                        " Category ":" QUEUE_RESO
URCE_LIMIT ",
                                        " ConfigKey ":" minimum -
user - limit - percent ",
                                        " ConfigType ":" RESOURCE_Q
UEUE_CONFI  G ",
                                        " ConfigValu  e ":" 0 ",
                                        " Id ": 2926 ,
                                        " Note ":"",
                                        " Status ":" NORMAL "
                                    },
                                    {
                                        " Category ":" QUEUE_RESO
URCE_LIMIT ",
```

```
                                        " ConfigKey ":" maximum -
capacity ",
                                        " ConfigType ":" RESOURCE_Q
UEUE_CONFI  G ",
                                        " ConfigValu  e ":" 0 ",
                                        " Id ": 2927 ,
                                        " Note ":"",
                                        " Status ":" NORMAL "
                                    },
                                    {
                                        " Category ":" QUEUE_RESO
URCE_LIMIT ",
                                        " ConfigKey ":" user - limit
- factor ",
                                        " ConfigType ":" RESOURCE_Q
UEUE_CONFI  G ",
                                        " ConfigValu  e ":"",
                                        " Id ": 2928 ,
                                        " Note ":"",
                                        " Status ":" NORMAL "
                                    },
                                    {
                                        " Category ":" QUEUE_RESO
URCE_LIMIT ",
                                        " ConfigKey ":" maximum -
allocation - mb ",
                                        " ConfigType ":" RESOURCE_Q
UEUE_CONFI  G ",
                                        " ConfigValu  e ":"",
                                        " Id ": 2929 ,
                                        " Note ":"",
                                        " Status ":" NORMAL "
                                    },
                                    {
                                        " Category ":" QUEUE_RESO
URCE_LIMIT ",
                                        " ConfigKey ":" maximum -
allocation - vcores ",
                                        " ConfigType ":" RESOURCE_Q
UEUE_CONFI  G ",
                                        " ConfigValu  e ":"",
                                        " Id ": 2930 ,
                                        " Note ":"",
                                        " Status ":" NORMAL "
                                    },
                                    {
                                        " Category ":" QUEUE_RESO
URCE_LIMIT ",
                                        " ConfigKey ":" maximum -
applicatio  ns ",
                                        " ConfigType ":" RESOURCE_Q
UEUE_CONFI  G ",
                                        " ConfigValu  e ":"",
                                        " Id ": 2931 ,
                                        " Note ":"",
                                        " Status ":" NORMAL "
                                    },
                                    {
                                        " Category ":" QUEUE_RESO
URCE_LIMIT ",
                                        " ConfigKey ":" maximum - am
- resource - percent ",
                                        " ConfigType ":" RESOURCE_Q
UEUE_CONFI  G ",
```

```
                                        " ConfigValu  e ":"",
                                        " Id ": 2932 ,
                                        " Note ":"",
                                        " Status ":" NORMAL "
                                    },
                                    {
                                        " Category ":" QUEUE_RESO
URCE_LIMIT ",
                                        " ConfigKey ":" state ",
                                        " ConfigType ":" RESOURCE_Q
UEUE_CONFI  G ",
                                        " ConfigValu  e ":" RUNNING
",
                                        " Id ": 2933 ,
                                        " Note ":"",
                                        " Status ":" NORMAL "
                                    },
                                    {
                                        " Category ":" QUEUE_SUBM
ISSION_ACC  ESS_CONTRO  L ",
                                        " ConfigKey ":" acl_submit
_applicati  ons ",
                                        " ConfigType ":" RESOURCE_Q
UEUE_CONFI  G ",
                                        " ConfigValu  e ":"",
                                        " Id ": 2934 ,
                                        " Note ":"",
                                        " Status ":" NORMAL "
                                    },
                                    {
                                        " Category ":" QUEUE_ADMI
NISTRATION  _ACCESS_CO  NTROL ",
                                        " ConfigKey ":" acl_admini
ster_queue ",
                                        " ConfigType ":" RESOURCE_Q
UEUE_CONFI  G ",
                                        " ConfigValu  e ":"",
                                        " Id ": 2935 ,
                                        " Note ":"",
                                        " Status ":" NORMAL "
                                    }
                                ]
                            },
                            " EcmResourc  eQueue ":{
                                " Id ": 247 ,
                                " Leaf ": false ,
                                " Name ":" default ",
                                " ParentQueu  eId ": 0 ,
                                " QualifiedN  ame ":" default ",
                                " QueueType ":"",
                                " ResourcePo  olId ": 116 ,
                                " Status ":" NORMAL ",
                                " UserId ":" 1528342317  645362 "
                            }
                        }]
                    }
                },
                {
                    " EcmResourc  ePool ":{
                        " Active ": true ,
                        " Id ": 117 ,
                        " Name ":" pool1 ",
                        " Note ":"",
                        " PoolType ":" CAPACITY_S  CHEDULER ",
```

```
                        " UserId ":" 1528342317  645362 ",
                        " YarnSiteCo  nfig ":""
                    },
                    " EcmResourc  ePoolConfi  gList ":{
                        " EcmResourc  ePoolConfi  g ":[]
                    },
                    " QueueList ":{
                        " Queue ":[]
                    }
                }
            ]
        },
        " RequestId ":" 213DD361 - EF38 - 4A31 - A909 - 96857AEE42
 DE "
    },
    " requestId ":" 213DD361 - EF38 - 4A31 - A909 - 96857AEE42  DE
 ",
    " successRes  ponse ": true
}
```

- **Error response examples**

  JSON format

```
{
    " code ":" User . OtherUserR  esource . NotAllow ",
    " message ":" It   is   not   allowed   to   operate   other
 user ' s   resource ",
    " requestId ":" A544317F - 4A60 - 4532 - AC96 - 191B9D8042  0AF
 ",
    " successRes  ponse ": false
}
```

Error codes

View error codes.

4.21 ModifyClusterServiceConfig

You can call this operation to modify the specified service on a cluster.

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-EBD62A703A430E23	The ID of the cluster.
RegionId	String	Yes	cn-hangzhou	RegionID
ServiceName	String	Yes	Tez.	The name of the service.
Comment	String	No	modify tez config	The comment for the modification.

Name	Type	Required	Example	Description
ConfigParams	String	No	{"tez-site":{"tez.am.resource.memory.mb":"640"}}	The modification represented as a JSON string.
ConfigType	String	No	""	The type of the configuration item.
CustomConfigParams	String	No	{"tez-site":{"key1":{"Value":"value1"}}}	The modification of the custom configuration item.
GroupId	String	No	G-xxx	The ID of the instance group.
HostInstanceId	String	No	i-xxx	The instance ID of the host.
AccessKeyId	String	No	xxx	The AccessKey ID.

Response parameters

Name	Type	Example	Description
RequestId	String	D9A09DDE-6BE7-473B-9E4B-B3CB762FD4B	The ID of the request.

Examples

- Sample requests

```
/?  ClusterId = C - xxx
& RegionId = cn - hangzhou
& ServiceNam  e = TEZ
& AccessKeyI  d = 111
& Comment = modify   tez   config
& ConfigPara  ms ={" tez - site ":{" tez . am . resource . memory .
 mb ":" 640 "}}
& ConfigType =""
& CustomConf  igParams ={" tez - site ":{" key1 ":{" Value ":"
 value1 "}}}
& GroupId = G - xxx
& HostInstan  ceId = i - xxx
```

```
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " RequestId ":" D9A09DDE - 6BE7 - 473B - 9E4B - B3CB762FD4  B3 "
}
```

- Error response examples

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

4.22 ModifyResourcePool

You can call this operation to modify a resource pool.

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-EBD62A703A430E23	The ID of the cluster.
Id	String	Yes	116	The ID of the resource pool.
RegionId	String	Yes	cn-hangzhou	RegionID
Active	Boolean	No	true	Indicates whether the resource pool is activated.

Name	Type	Required	Example	Description
Config.N.Category	String	No	DEFAULT_SETTINGS	The category of the configuration. Valid values: DEFAULT_SETTINGS, ACCESS_CONTROL_SETTINGS, QUEUE_RESOURCE_LIMIT, QUEUE_SCHEDULING_POLICY, QUEUE_PREEMPTION, QUEUE_SUBMISSION_ACCESS_CONTROL, and QUEUE_ADMINISTRATION_ACCESS_CONTROL.
Config.N.ConfigKey	String	No	capacity	The key of the configuration item.
Config.N.ConfigValue	String	No	100	The value of the configuration item/
Config.N.Id	String	No	10	The ID of the configuration item.
Config.N.Note	String	No	capacity weight	The description of the configuration item.
Name	String	No	custompool	The name of the resource pool.

Name	Type	Required	Example	Description
Yarnsiteconfig	String	No	Yarnsiteconfig	/
AccessKeyId	String	No	xxx	The AccessKey ID.

Response parameters

Name	Type	Example	Description
RequestId	String	A544317F-4A60-4532-AC96-191B9D80420A	The ID of the request.

Examples

- **Sample requests**

```
/?  ClusterId = C - 0E995C0EE7  E5ECB3
& Id = 116
& RegionId = cn - hangzhou
& AccessKeyI  d = xxx
& Active = true
& Name = custompool
& Yarnsiteco  nfig = Yarnsiteco  nfig
& Config .  1 .  Category = DEFAULT_SE  TTINGS
& Config .  1 .  ConfigKey = capacity
& Config .  1 .  ConfigValu  e = 100
& Config .  1 .  Id = 10
& Config .  1 . Note = capacity   weight
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
    " code ":" 200 ",
    " requestId ":" A544317F - 4A60 - 4532 - AC96 - 191B9D8042  0A
 ",
    " successRes  ponse ": true
}
```

- **Error response examples**

  JSON format

```
{
    " code ":" AuthRealNa  meNotPass ",
    " message ":" User   real   name   authentica  te   failed !",
    " requestId ":" A544317F - 4A60 - 4532 - AC96 - 191B9D8042  0AF
 ",
    " successRes  ponse ": false
```

```
}
```

Error codes

View error codes.

4.23 ModifyResourcePoolSchedulerType

You can call this operation to modify the scheduler type of a resource pool.

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-EBD62A703A430E23	The ID of the cluster.
RegionId	String	Yes	cn-hangzhou	The region location ID.
SchedulerType	String	Yes	CAPACITY_SCHEDULER	The scheduler type.
AccessKeyId	String	No	xxx	The AccessKey ID.

Response parameters

Name	Type	Example	Description
RequestId	String	A544317F-4A60-4532-AC96-191B9D80420A	The ID of the request.

Examples

- Sample requests

```
/?  Action = ModifyReso  urcePoolSc  hedulerTyp  e
& ClusterId = C - EBD62A703A  430E23
& RegionId = cn - hangzhou
& SchedulerT  ype = CAPACITY_S  CHEDULER
& AccessKeyI  d = xxx
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " code ":" 200 ",
 " requestId ":" A544317F - 4A60 - 4532 - AC96 - 191B9D8042  0A ",
 " successRes  ponse ": true
```

```
}
```

- Error response examples

  JSON format

```
{
 " code ":" User . OtherUserR  esource . NotAllow ",
 " message ":" It   is   not   allowed   to   operate   other   user
 ' s   resource ",
 " requestId ":" A544317F - 4A60 - 4532 - AC96 - 191B9D8042  0AF ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

4.24 ModifyResourceQueue

You can call this operation to modify a resource queue.

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-EBD62A703A430E23	The ID of the cluster.
Id	String	Yes	116	The ID of the resource queue.
RegionId	String	Yes	cn-hangzhou	The ID of the region.
ResourcePoolId	Long	Yes	115	The ID of the resource pool.
AccessKeyId	String	No	xxx	AccessKey ID.
Config.N.Category	String	No	QUEUE_RESOURCE_LIMIT	The type of the parameter.
Config.N.ConfigKey	String	No	capacity	The key of the parameter.
Config.N.ConfigValue	String	No	100	The value of the parameter.
Config.N.Id	Long	No	200	The ID of the parameter.

Name	Type	Required	Example	Description
Config.N.Note	String	No	capacity_weight	The description of the parameter.
Leaf	Boolean	No	false	Indicates whether the node is a leaf node.
Name	String	No	queue2	The name of the resource queue.
ParentQueueId	Long	No	115	The ID of the parent resource queue.
QualifiedName	String	No	test	Not required.

Response parameters

Name	Type	Example	Description
RequestId	String	A544317F-4A60-4532-AC96-191B9D80420A	The ID of the request.

Examples

- Sample requests

```
/?  Action = ModifyReso  urceQueue
& ClusterId = C - 0E995C0EE7  E5ECB3
& Id = 116
& RegionId = cn - hangzhou
& ResourcePo  olId = 115
& AccessKeyI  d = xxx
& Leaf = false
& Name = queue2
& ParentQueu  eId = 115
& QualifiedN  ame = test
& Config .  1   Category = QUEUE_RESO  URCE_LIMIT
& Config .  1   ConfigKey = capacity
& Config .  1   ConfigValu  e = 100
& Config .  1 .  Id = 200
& Config .  1 . 1ote = capacity_w  eight
```

```
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " code ":" 200 ",
 " requestId ":" A544317F - 4A60 - 4532 - AC96 - 191B9D8042  0A ",
 " successRes  ponse ":  true
}
```

- Error response examples

  JSON format

```
{
 " code ":" AuthRealNa  meNotPass ",
 " message ":" User   real   name   authentica  te   failed !",
 " requestId ":" A544317F - 4A60 - 4532 - AC96 - 191B9D8042  0AF ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

4.25 RefreshClusterResourcePool

You can call this operation to synchronize the configurations of a cluster with the configurations of a resource pool.

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-EBD62A703A430E23	The ID of the cluster.
RegionId	String	Yes	cn-hangzhou	The ID of the region.
ResourcePoolId	Long	Yes	115	The ID of the resource pool.
AccessKeyId	String	No	xxx	AccessKey ID.

Response parameters

Name	Type	Example	Description
RequestId	String	A544317F-4A60-4532-AC96-191B9D80420A	The ID of the request.
WorkFlowInstanceId	String	xxxx	The ID of the workflow instance.
OperationId	String	xxxx	The ID of the operation.

Examples

- Sample requests

```
/?  Action = RefreshClu  sterResour  cePool
& ClusterId =
& RegionId = cn - hangzhou
& ResourcePo  olId = 115
& AccessKeyI  d = xxx
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " code ":" 200 ",
 " requestId ":" A544317F - 4A60 - 4532 - AC96 - 191B9D8042  0A ",
 " successRes  ponse ":  true
}
```

- Error response examples

  JSON format

```
{
 " code ":" User . OtherUserR  esource . NotAllow ",
 " message ":" It   is   not   allowed   to   operate   other   user
 ' s   resource ",
 " requestId ":" A544317F - 4A60 - 4532 - AC96 - 191B9D8042  0AF ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

4.26 RunClusterServiceAction

You can call this operation to run actions on services.

Request parameters

Name	Type	Required	Example	Description
ServiceName	String	No	TEZ	The name of the service.
ClusterId	String	Yes	C-F32FB31D82954C64	The ID of the cluster.
RegionId	String	Yes	cn-hangzhou	RegionID
ServiceActionName	String	Yes	STOP	The name of the action.
Comment	String	No	test run action	The description of the action.
ComponentNameList	String	No	Tomcat	The list of component names. Names are separated by commas (,).
CustomCommand	String	No	""	Required when the value of ServiceActionName is CUSTOM_COMMAND. For example, refreshQueues.
HostIdList	String	No	""	The list of host IDs. IDs are separated by commas (,).
Interval	Long	No	60	The interval between actions. Specified when the value of IsRolling is true.

Name	Type	Required	Example	Description
IsRolling	Boolean	No	true	Indicates whether to repeat the action.
NodeCountPerBatch	Integer	No	2	The number of nodes to run each batch of actions. Specified when IsRolling = true.
OnlyRestartStaleConfigNodes	Boolean	No	true	A value of true indicates that nodes are restarted only when the configuration items are modified.
TotlerateFailCount	Integer	No	5	A reserved parameter. The maximum number of failed jobs that a workflow can tolerate.
TurnOnMaintenanceMode	Boolean	No	false	Indicates whether to enable maintenance mode.
AccessKeyId	String	No	111	The AccessKey ID.

Response parameters

Name	Type	Example	Description
RequestId	String	A544317F-4A60-4532-AC96-191B9D80420A	The ID of the request.

Examples

- **Sample requests**

```
/?  ClusterId = C - F32FB31D82  954C64
& RegionId = cn - hangzhou
& ServiceAct  ionName = STOP
& AccessKeyI  d = 111
& Comment = test   run   action
& ComponentN  ameList = Tomcat
& CustomComm  and =""
& HostIdList =""
& Interval = 60
& IsRolling = true
& NodeCountP  erBatch = 2
& OnlyRestar  tStaleConf  igNodes = true
& ServiceNam  e = TEZ
& TotlerateF  ailCount = 5
& TurnOnMain  tenanceMod  e = false
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A "
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" RAM . Permission . NotAllow ",
 " message ":" It   is   not   allow   to   execute   this
 operation , please   use   RAM   to   authorize !",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5 Data development

5.1 CloneFlow

You can call this operation to clone a workflow.

Request parameters

Name	Type	Required	Example	Description
Id	String	Yes	F-8C1EB0C645 2A82A1	The ID of the workflow to clone.
ProjectId	String	Yes	FP-53C4D36FC7 310AC0	The ID of the project that the workflow belongs to.
RegionId	String	Yes	cn-hangzhou	The ID of the region.

Response parameters

Name	Type	Example	Description
RequestId	String	12E7685E-C7A2 -4BED-878B- 07AF5BAD475F	The ID of the request.
Id	String	F-CDFE2BF3A7 963F06	The ID of the workflow that has been created.

Examples

- Sample requests

```
/?  Action = CloneFlow
& Id = F - 8C1EB0C645  2A82A1
& ProjectId = FP - 53C4D36FC7  310AC0
& RegionId = cn - hangzhou
```

```
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " Id ":" F - CDFE2BF3A7  963F06 ",
 " RequestId ":" 12E7685E - C7A2 - 4BED - 878B - 07AF5BAD47  5F "
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Flow   name   already   exists : [ 0_copy ]",
 " requestId ":" 7DF74E3B - 5BEA - 4365 - 8E67 - 4FD9509592  4F ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.2 CloneFlowJob

You can call this operation to clone a job.

Request parameters

Name	Type	Required	Example	Description
Id	String	Yes	F-8C1EB0C6452A82A1	The ID of the job to clone.
ProjectId	String	Yes	FP-53C4D36FC7310AC0	The ID of the project that consists of the job.
RegionId	String	Yes	cn-hangzhou	The ID of the region.

Response parameters

Name	Type	Example	Description
RequestId	String	12E7685E-C7A2-4BED-878B-07AF5BAD475F	The ID of the request.

Name	Type	Example	Description
Id	String	F-CDFE2BF3A7963F06	The ID of the job that has been created.

Examples

- Sample requests

```
/?  Action = CloneFlowJ  ob
& Id = FJ - 244582F193  4CFC77
& ProjectId = FP - C62EEC30F7  73B1A7
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " Id ":" FJ - 06D12BA164  199E32 ",
 " RequestId ":" BCE475E4 - 129D - 43D2 - 8595 - C80B80CBC1  14 "
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Job   name   already   exists : [ job_0_copy ]",
 " requestId ":" 7DF74E3B - 5BEA - 4365 - 8E67 - 4FD9509592  4F ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.3 CreateFlowCategory

You can call this operation to create a folder.

Request parameters

Name	Type	Required	Example	Description
Name	String	Yes	myFolder	The name of the folder.
ProjectId	String	Yes	F-48EB68215AEAE28D	The ID of the project.

Name	Type	Required	Example	Description
RegionId	String	Yes	cn-hangzhou	The ID of the region.
Type	String	Yes	FLOW	The type of the category . Valid values : FLOW, JOB, and ADHOC.
ParentId	String	No	FC-AF08490649 B8FD5E	The ID of the parent category. If not specified, the ID of the root category is assigned.

Response parameters

Name	Type	Example	Description
RequestId	String	2670BCFB-925D -4C3E-9994- 8D12F7A9F538	The ID of the request.
Id	String	FC-AF08490649 B8FD5E	The ID of the folder that has been created.

Examples

- Sample requests

```
/?  Action = CreateFlow  Category
& Name = myFolder
& ProjectId = F - 48EB68215A  EAE28D
& RegionId = cn - hangzhou
& Type = FLOW
& ParentId = FC - AF08490649  B8FD5E
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " Id ":" FC - AF08490649  B8FD5E ",
 " RequestId ":" 2670BCFB - 925D - 4C3E - 9994 - 8D12F7A9F5  38 "
```

```
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Project   does   not   exist  [ FP - C05787BC0E
 C88258 ]",
 " requestId ":" 11BAFBD8 - 8509 - 4177 - A26D - 407505E737  13 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.4 CreateFlowForWeb

You can call this operation to create a workflow.

Request parameters

Name	Type	Required	Example	Description
Description	String	Yes	"This is a workflow description."	The descriptio n of the workflow.
Name	String	Yes	my_flow_demo	The name of the workflow.
ProjectId	String	Yes	FP-257A173659 F59685	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.
AlertDingD ingGroupBizId	String	No	This is a legacy parameter.	The ID of the DingTalk group to send alerts.
AlertUserG roupBizId	String	No	This is a legacy parameter.	The ID of the user group to send alerts.
ClusterId	String	No	C-A23BD131A8 62F184	The ID of the cluster.

Name	Type	Required	Example	Description
CreateCluster	Boolean	No	false	Indicates whether to create a cluster. · A value of true indicates that a cluster is created using the cluster template. The format of the ClusterID value is CT-XXXXXX. · A value of false indicates an existing cluster is used. The format of the ClusterID value is C-XXXXXX.
CronExpr	String	No	0 0 0-23/1 * * ?	The expression of Cron.
EndSchedule	Long	No	1538018814000	Indicates when to end the schedule.

Name	Type	Required	Example	Description
Graph	String	No	{"nodes":[{"id":"48d474ea","index":0,"spmAnchorId":"0.0.0.i0.766645eb2cmNtQ","attribute":{"type":"START"},"shape":"startControlNode","type":"node","y":250,"size":"80*34","x":500},{"id":"7ba480b3","index":1,"spmAnchorId":"5176.8250060.0.i19.771e28d0IPNQGE","attribute":{"jobType":"SHELL","jobId":"FJ-7BE1062897B19D25","type":"JOB"},"config":{"hostName":""},"label":"fail_job","shape":"shellJobNode","type":"node","y":398.5,"size":"170*34","x":470.5},{"id":"33202d60","index":2,"spmAnchorId":"5176.8250060.0.i23.771e28d0IPNQGE","attribute":{"type":"END"},"shape":"	The description of the DAG.

Name	Type	Required	Example	Description
HostName	String	No	emr-header-1.cluster-123456	The information of the host on which the workflow is run.
ParentCategory	String	No	FC-F2495319DA05CEE5	The ID of the parent category.
ParentFlowList	String	No	[F-123456]	The list of the parent flows.
StartSchedule	Long	No	1538017814000	Indicates when to start the schedule.

Response parameters

Name	Type	Example	Description
RequestId	String	243D5A48-96A5-4C0C-8966-93CBF65635ED	The ID of the request.
Id	String	F-7A39731FE7196358	The ID of the workflow that has been created.

Examples

- Sample requests

```
/? Descriptio n =" This is a workflow descriptio n ."
& Name = my_flow_de mo
& ProjectId = FP - 257A173659 F59685
& RegionId = cn - hangzhou
& AlertDingD ingGroupBi zId = AUG - c917bbfaf6 494bbfacde
 e69c828496 7c
& AlertUserG roupBizId = ADG - 0a00d00abb 7743ff9f81 2f1a997f3d
 87
& ClusterId = C - A23BD131A8 62F184
& CreateClus ter = false
& CronExpr = 0 0 0 - 23 / 1 * * ?
& EndSchedul e = 1538018814 000
& Graph ={" nodes ":[{" id ":" 48d474ea "," index ": 0 ,"
 spmAnchorI d ":" 0 . 0 . 0 . i0 . 766645eb2c mNtQ "," attribute
 ":{" type ":" START "}," shape ":" startContr olNode "," type
 ":" node "," y ": 250 ," size ":" 80 * 34 "," x ": 500 },{" id ":"
 7ba480b3 "," index ": 1 ," spmAnchorI d ":" 5176 . 8250060 . 0
 . i19 . 771e28d0IP NQGE "," attribute ":{" jobType ":" SHELL ","
 jobId ":" FJ - 7BE1062897 B19D25 "," type ":" JOB "}," config ":
```

```
{" hostName ":""}," label ":" fail_job "," shape ":" shellJobNo  de
 "," type ":" node "," y ": 398 . 5 ," size ":" 170 * 34 "," x ":
 470 . 5 },{" id ":" 33202d60 "," index ": 2 ," spmAnchorI  d ":"
 5176 . 8250060 . 0 . i23 . 771e28d0IP  NQGE "," attribute ":{" type
 ":" END "}," shape ":" endControl  Node "," type ":" node "," y ":
 562 . 5 ," size ":" 80 * 34 "," x ": 430 . 5 }]," edges ":[{" id
 ":" 28167ea0 "," index ": 3 ," source ":" 48d474ea "," sourceAnch
 or ": 0 ," target ":" 7ba480b3 "," targetAnch  or ": 0 },{" id ":"
 e8d5ff52 "," index ": 4 ," source ":" 7ba480b3 "," sourceAnch  or
 ": 1 ," target ":" 33202d60 "," targetAnch  or ": 0 }]}
& HostName = emr - header - 1 . cluster - 123456
& ParentCate  gory = FC - F2495319DA  05CEE5
& ParentFlow  List =[ F - 123456 ]
& StartSched  ule = 1538017814  000
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " Id ":" F - 7A39731FE7  196358 ",
 " RequestId ":" 2670BCFB - 925D - 4C3E - 9994 - 8D12F7A9F5  38 "
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Invalid   type  [ INVALID_TY  PE ]",
 " requestId ":" 11BAFBD8 - 8509 - 4177 - A26D - 407505E737  13 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.5 CreateFlowJob

You can call this operation to create a job.

Request parameters

Name	Type	Required	Example	Description
Description	String	Yes	"This is a job description."	The description of the job.
Name	String	Yes	my_shell_job	The name of the job.
ProjectId	String	Yes	FP-257A173659F59685	The ID of the project.

Name	Type	Required	Example	Description
RegionId	String	Yes	cn-hangzhou	The ID of the region.
Type	String	Yes	SHELL	The type of the job. Valid values : MR, SPARK , HIVE_SQL , HIVE, PIG , SQOOP, SPARK_SQL, SPARK_STREAMING, and SHELL.
Adhoc	Boolean	No	false	Indicates whether the job is an ad-hoc query.
ClusterId	String	No	C-A23BD131A862F184	The ID of the cluster.
EnvConf	String	No	{"key":"value"}	The configuration of the environment variables.
FailAct	String	No	CONTINUE	The strategy to apply after failure. Valid values: CONTINUE and STOP.
MaxRetry	Integer	No	5	The maximum number of retries. Valid values: 0 to 5.

Name	Type	Required	Example	Description
Mode	String	No	YARN	The mode of the model. Valid values : YARN and LOCAL. YARN : Packages the job to a launcher and submit it to YARN for execution. LOCAL: Runs the job as a process on the machine.
MonitorConf	String	No	{"inputs":[{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic","consumer.group":"kafka_consumer_group"}],"outputs":[{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic"}]}	The configurations of the monitor. *
ParamConf	String	No	{"date":"${yyyy-MM-dd}"}	The configurations of the parameter.
Params	String	No	ls -l	The content of the job.
ParentCategory	String	No	FC-5BD9575E34623940	The ID of the parent category.
ResourceList.N.Alias	String	No	demo.jar	The alias of the resource.

Name	Type	Required	Example	Description
ResourceList.N.Path	String	No	oss://path/demo.jar	The path of the resource. Valid values: oss and hdfs.
RetryInterval	Long	No	200	The interval between retries. Valid values: 0 to 300. Unit: seconds.
RunConf	String	No	{"priority":1,"userName":"hadoop","memory":2048,"cores":1}	The run configurations. priority: The priority to run the job. userName: The Linux user that submits the job. memory: The size of the allocated memory for running the job. Unit: megabytes. cores: The number of allocated vCPUs for running the job.

Response parameters

Name	Type	Example	Description
RequestId	String	1549175a-6d14-4c8a-89f9-5e28300f6d7e	The ID of the request.
Id	String	FJ-A23BD131A862F184	The ID of the job.

Examples

- **Sample requests**

```
/?  Descriptio  n = This   is   a   job   descriptio  n .
& Name = my_shell_j  ob
& ProjectId = FP - 257A173659  F59685
& RegionId = cn - hangzhou
& Type = SHELL
& Adhoc = false
& ClusterId = C - A23BD131A8  62F184
& EnvConf ={" key ":" value "}
& FailAct = CONTINUE
& MaxRetry = 5
& Mode = YARN
& MonitorCon  f ={" inputs ":[{" type ":" KAFKA "," clusterId ":"
 C - 1234567 "," topics ":" kafka_topi  c "," consumer . group
 ":" kafka_cons  umer_group "}]," outputs ":[{" type ":" KAFKA ","
 clusterId ":" C - 1234567 "," topics ":" kafka_topi  c "}]}
& ParamConf ={" date ":"${ yyyy - MM - dd }"}
& Params = ls  - l
& ParentCate  gory = FC - 5BD9575E34  623940
& RetryInter  val = 200
& RunConf ={" priority ": 1 ," userName ":" hadoop "," memory ":
 2048 ," cores ": 1 }
& ResourceLi  st .  1   Alias = demo . jar
& ResourceLi  st .  1 .  Path = oss :// path / demo . jar
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
    " Id ":" FJ - BBCAE48B90  CCB37B ",
    " RequestId ":" 2670BCFB - 925D - 4C3E - 9994 - 8D12F7A9F5  38 "
}
```

- **Error response examples**

  JSON format

```
{
    " code ":" FLOW_API_F  AILED ",
    " message ":" Invalid   job   type  [ INVALID_TY  PE ]",
    " requestId ":" 11BAFBD8 - 8509 - 4177 - A26D - 407505E737  13
 ",
    " successRes  ponse ": false
}
```

Error codes

View error codes.

5.6 CreateFlowProject

You can call this operation to create a project.

Request parameters

Name	Type	Required	Example	Description
Description	String	Yes	This is a project description.	The description of the project.
Name	String	Yes	my_project	The name of the project.
RegionId	String	Yes	cn-hangzhou	The region location ID.

Response parameters

Name	Type	Example	Description
RequestId	String	2670BCFB-925D-4C3E-9994-8D12F7A9F538	The ID of the request.
Id	String	FP-257A173659F59685	The ID of the project.

Examples

- Sample requests

```
/?  Action = CreateFlow  Project
& Descriptio  n = This   is   a   project   descriptio  n .
& Name = my_project
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " Id ":" FP - 257A173659  F59685 ",
 " RequestId ":" 2670BCFB - 925D - 4C3E - 9994 - 8D12F7A9F5  38 "
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
```

```
" message ":" Invalid project name [ Project name longer
than 256 ]",
" requestId ":" 0AD9FF20 - F585 - 4E0A - 870D - B8A8F884CC E6 ",
" successRes ponse ": false
}
```

Error codes

View error codes.

5.7 CreateFlowProjectClusterSetting

You can call this operation to create cluster settings for a project.

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-DCEE11B49C8F42B4	The ID of the cluster.
ProjectId	String	Yes	FP-ED2F3E844FE383AA	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.
DefaultQueue	String	No	default	The default queue for job submission. Default value: default.
DefaultUser	String	No	hadoop	The default Linux user to submit jobs. Default value: hadoop.
HostList.N	RepeatList	No	emr-header-1.cluster-12345	The whitelist of hosts for job submission. Only gateways and master nodes are supported.
QueueList.N	RepeatList	No	queue1	The whitelist of queues.

Name	Type	Required	Example	Description
UserList.N	RepeatList	No	hadoop	The whitelist of Linux users for job submission .

Response parameters

Name	Type	Example	Description
RequestId	String	0AD9FF20-F585-4E0A-870D-B8A8F884CCE6	The ID of the request.
Data	Boolean	true	Indicates whether the cluster settings are created.

Examples

- Sample requests

```
/?  Action = CreateFlow  ProjectClu  sterSettin  g
& ClusterId = C - DCEE11B49C  8F42B4
& ProjectId = FP - ED2F3E844F  E383AA
& RegionId = cn - hangzhou
& DefaultQue  ue = default
& DefaultUse  r = hadoop
& HostList .  1 = emr - header - 1 . cluster - 12345
& QueueList .  1 = queue1
& UserList .  1 = hadoop
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " Data ": true ,
 " RequestId ":" ECC2D0D1 - B6D5 - 468D - B698 - 30E8805EB5  74 "
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Cluster   host   does   not   exit  [[ emr - header -
 1 . cluster - 12345 ]",
 " requestId ":" 2FEF3292 - 084E - 45D8 - 8D8A - C9B8867B3F  37 ",
 " successRes  ponse ": false
```

```
}
```

Error codes

View error codes.

5.8 CreateFlowProjectUser

You can call this operation to add a project user.

Request parameters

Name	Type	Required	Example	Description
ProjectId	String	Yes	FP-257A173659F59685	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.
User.N.UserId	String	No	123456	The ID of the RAM user.
User.N.UserName	String	No	subuser1	The RAM user name.

Response parameters

Name	Type	Example	Description
RequestId	String	243D5A48-96A5-4C0C-8966-93CBF65635ED	The ID of the request.
Data	Boolean	true	Indicates whether the project user is added.

Examples

- Sample requests

```
/?  Action = CreateFlow  ProjectUse  r
& ProjectId = FP - 257A173659  F59685
& RegionId = cn - hangzhou
& User .  1 .  UserId = 123456
& User .  1 .  UserName = subuser1
```

```
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " Data ":" true ",
 " RequestId ":" 2670BCFB - 925D - 4C3E - 9994 - 8D12F7A9F5  38 "
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Project   does   not   exist  [ FP - 257A173659
 F59685 ]",
 " requestId ":" 11BAFBD8 - 8509 - 4177 - A26D - 407505E737  13 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.9 DeleteFlow

You can call this operation to delete a workflow.

Request parameters

Name	Type	Required	Example	Description
Id	String	Yes	F-7A39731FE7196358	The ID of the workflow.
ProjectId	String	Yes	FP-257A173659F59685	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.

Response parameters

Name	Type	Example	Description
RequestId	String	11BAFBD8-8509-4177-A26D-407505E73713	The ID of the request.

Name	Type	Example	Description
Data	Boolean	true	Indicates whether the workflow is deleted.

Examples

- Sample requests

```
/?  Action = DeleteFlow
& Id = F - 7A39731FE7  196358
& ProjectId = FP - 257A173659  F59685
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " Data ": true ,
 " RequestId ":" ECC2D0D1 - B6D5 - 468D - B698 - 30E8805EB5  74 "
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Flow   does   not   exist  [ F - 12345 ]",
 " requestId ":" 11BAFBD8 - 8509 - 4177 - A26D - 407505E737  13 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.10 DeleteFlowCategory

You can call this operation to delete a workflow category.

Request parameters

Name	Type	Required	Example	Description
Id	String	Yes	FC-075AB9477DAE9AAC	The ID of the category.

Name	Type	Required	Example	Description
ProjectId	String	Yes	FP-ABD24A6163D31274	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.

Response parameters

Name	Type	Example	Description
RequestId	String	243D5A48-96A5-4C0C-8966-93CBF65635ED	The ID of the request.
Data	Boolean	true	Indicates whether the workflow category is deleted.

Examples

- Sample requests

```
/?  Action = DeleteFlow  Category
& Id = FC - 075AB9477D  AE9AAC
& ProjectId = FP - ABD24A6163  D31274
& RegionId = region_id
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " Data ":" true ",
 " RequestId ":" 2670BCFB - 925D - 4C3E - 9994 - 8D12F7A9F5  38 "
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Project   does   not   exist  [ FP - ABD24A6163
 D31274 ]",
 " requestId ":" 11BAFBD8 - 8509 - 4177 - A26D - 407505E737  13 ",
 " successRes  ponse ": false
```

```
}
```

Error codes

View error codes.

5.11 DeleteFlowJob

You can call this operation to delete a job.

Request parameters

Name	Type	Required	Example	Description
Id	String	Yes	FJ-BBCAE48B90CCB37B	The ID of the job.
ProjectId	String	Yes	FP-257A173659F59685	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.

Response parameters

Name	Type	Example	Description
RequestId	String	549175a-6d14-4c8a-89f9-5e28300f6d7e	The ID of the request.
Data	Boolean	true	Indicates whether the job is deleted.

Examples

- Sample requests

```
/?  Action = DeleteFlow  Job
& Id = FJ - BBCAE48B90  CCB37B
& ProjectId = FP - 257A173659  F59685
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " Data ": true ,
 " RequestId ":" ECC2D0D1 - B6D5 - 468D - B698 - 30E8805EB5  74 "
```

```
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Flow   Job   does   not   exist  [ FJ - C71FB9F107
 5C7D62A ]",
 " requestId ":" 243D5A48 - 96A5 - 4C0C - 8966 - 93CBF65635  ED ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.12 DeleteFlowProject

You can call this operation to delete a project.

Request parameters

Name	Type	Required	Example	Description
ProjectId	String	Yes	FP-257A173659 F59685	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.

Response parameters

Name	Type	Example	Description
RequestId	String	2670BCFB-925D -4C3E-9994- 8D12F7A9F538	The ID of the request.
Data	Boolean	true	Indicates whether the project is deleted.

Examples

- Sample requests

```
/?  Action = DeleteFlow  Project
& ProjectId = FP - 257A173659  F59685
& RegionId = cn - hangzhou
```

```
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " Data ":" true ",
 " RequestId ":" 2670BCFB - 925D - 4C3E - 9994 - 8D12F7A9F5  38 "
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" project   not   exist ",
 " requestId ":" 11BAFBD8 - 8509 - 4177 - A26D - 407505E737  13 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.13 DeleteFlowProjectClusterSetting

You can call this operation to delete the cluster settings for a project.

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-F32FB31D82954C64	The ID of the cluster.
ProjectId	String	Yes	FP-E3F1523F8FC1D2E6	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.

Response parameters

Name	Type	Example	Description
RequestId	String	ECC2D0D1-B6D5-468D-B698-30E8805EB574	The ID of the request.

Name	Type	Example	Description
Data	Boolean	true	Indicates whether the cluster settings are deleted.

Examples

- Sample requests

```
/?  Action = DeleteFlow  ProjectClu  sterSettin  g
& ClusterId = C - F32FB31D82  954C64
& ProjectId = FP - E3F1523F8F  C1D2E6
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " Data ": true ,
 " RequestId ":" ECC2D0D1 - B6D5 - 468D - B698 - 30E8805EB5  74 "
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Project   does   not   exist  [ FP - E3F1523F8F
 C1D2E6 ]",
 " requestId ":" 11BAFBD8 - 8509 - 4177 - A26D - 407505E737  13 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.14 DeleteFlowProjectUser

You can call this operation to delete a project user.

Request parameters

Name	Type	Required	Example	Description
UserName	String	Yes	subuser1	The RAM user.

Name	Type	Required	Example	Description
ProjectId	String	Yes	FP-257A173659 F59685	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.

Response parameters

Name	Type	Example	Description
RequestId	String	243D5A48-96A5 -4C0C-8966- 93CBF65635ED	The ID of the request.
Data	Boolean	true	Indicates whether the user is deleted.

Examples

- Sample requests

```
/?  Action = DeleteFlow  ProjectUse  r
& ProjectId = FP - 257A173659  F59685
& RegionId = cn - hangzhou
& UserName = subuser1
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " Data ":" true ",
 " RequestId ":" 2670BCFB - 925D - 4C3E - 9994 - 8D12F7A9F5  38 "
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Invalid   type  [ INVALID_TY  PE ]",
 " requestId ":" 11BAFBD8 - 8509 - 4177 - A26D - 407505E737  13 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.15 DescribeFlow

You can call this operation to view the detail of a workflow.

Request parameters

Name	Type	Required	Example	Description
Id	String	Yes	F-7A39731FE7196358	The ID of the workflow.
ProjectId	String	Yes	FP-257A173659F59685	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.

Response parameters

Name	Type	Example	Description
RequestId	String	243D5A48-96A5-4C0C-8966-93CBF65635ED	The ID of the request.
Id	String	F-7A39731FE7196358	The ID of the workflow.
GmtCreate	Long	1538017814000	The creation time.
GmtModified	Long	1538017814000	The modification time.
Name	String	my_flow_demo	The name of the workflow.
Description	String	"This is a workflow description."	The description of the workflow.
Type	String	EMR	Valid value: EMR.
Status	String	STOP_SCHEDULE	The status of the workflow . Valid values: STOP_SCHEDULE and UNDER_SCHEDULE.
Periodic	Boolean	true	Indicates whether the workflow is run periodically.

Name	Type	Example	Description
StartSchedule	Long	1538017814000	The start time of the schedule.
EndSchedule	Long	1538018814000	The end time of the schedule.
CronExpr	String	0 0 0-23/1 * * ?	The cron expression of the schedule.
CreateCluster	Boolean	false	Indicates whether a cluster is to be created. A value of true indicates that a cluster is created using the cluster template. The format of the ClusterID value is CT-XXXXXX. A value of false indicates an existing cluster is used. The format of the ClusterID value is C-XXXXXX.
ClusterId	String	C-A23BD131A862F184	The ID of the cluster or the cluster template.
HostName	String	emr-header-1.cluster-123456	The information of the host on which the workflow is run.

Name	Type	Example	Description
Graph	String	{"nodes":[{"id":"48d474ea","index":0,"spmAnchorId":"0.0.0.i0.766645eb2cmNtQ","attribute":{"type":"START"},"shape":"startControlNode","type":"node","y":250,"size":"80*34","x":500},{"id":"7ba480b3","index":1,"spmAnchorId":"5176.8250060.0.i19.771e28d0IPNQGE","attribute":{"jobType":"SHELL","jobId":"FJ-7BE1062897B19D25","type":"JOB"},"config":{"hostName":""},"label":"fail_job","shape":"shellJobNode","type":"node","y":398.5,"size":"170*34","x":470.5},{"id":"33202d60","index":2,"spmAnchorId":"5176.8250060.0.i23.771e28d0IPNQGE","attribute":{"type":"END"},"shape":"endControlNode","type":"node","y":562.5,"size":"80*34","x":430.5}],"edges":[{"id":"28167ea0","index":3,"source":"48d474ea","sourceAnchor":0,"target":"7ba480b3","targetAnchor":0},{"id":"e8d5ff52","index":4,"source":"7ba480b3","sourceAnchor":1,"target":"33202d60","	The graphical information of the workflow.

Name	Type	Example	Description
CategoryId	String	FC-F2495319DA05CEE5	The ID of the workflow category.
AlertConf	String	{"items":[{"enable":true,"eventId":"EMR-210401001","alertUserGroupIdList":["AUG-b79bb29bb6e14ddd89674a242623851b"],"alertDingDingGroupList":["ADG-af1f9689d6194e2dbd89927d5c515172"]},{"enable":true,"eventId":"EMR-110401015","alertUserGroupIdList":["AUG-b79bb29bb6e14ddd89674a242623851b"],"alertDingDingGroupList":["ADG-af1f9689d6194e2dbd89927d5c515172"]},{"enable":true,"eventId":"EMR-110401002","alertUserGroupIdList":["AUG-b79bb29bb6e14ddd89674a242623851b"],"alertDingDingGroupList":["ADG-af1f9689d6194e2dbd89927d5c515172"]}]}	The configurations of the alerts and notifications. Valid values of the eventId property include EMR-210401001 (workflow failure), EMR-110401002 (workflow success), and EMR-110401015 (workflow node failure).

Name	Type	Example	Description
AlertUserGroupBizId	String	ADG-0a00d00abb7743ff9f812f1a997f3d87	The ID of the user group to send alerts.
AlertDingDingGroupBizId	String	AUG-c917bbfaf6494bbfacdee69c8284967c	The ID of the DingTalk group to send alerts.
Application	String	{"nodeDefMap":{":start:":{"name":":start:","type":":start:","transitions":["cluster"]},"cluster":{"id":"CT-0C74281682CF03B4","name":"cluster","type":":Cluster:","transitions":["job1"]},"job1":{"jobId":"FJ-242AB240DBAF4195","name":"job1","type":":action:","transitions":["end"]},"end":{"name":"end","type":":end:"}}}	The structure of the workflow. Valid values of the type property include :start (start), :Cluster (create an on-demand cluster), :action (action), and :end (end). Values of the transitions property are the downstream nodes, separated by commas.
ParentFlowList			The list of the parent workflows.
ParentFlowId	String	F-123456	The ID of the parent workflow.
ParentFlowName	String	parent_flow	The name of the parent workflow.
ProjectId	String	FP-257A173659F59685	The ID of the project.
ProjectName	String	my_project	Project Name

Examples

- Sample requests

```
/?  Action = DescribeFl  ow
& Id = F - 7A39731FE7  196358
```

```
& ProjectId = FP - 257A173659  F59685
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
 " CategoryId ":" FC - 020BA6E39B  F0DF35 ",
 " ClusterId ":" C - 23D6879E9B  BE1D65 ",
 " CreateClus  ter ": false ,
 " Descriptio  n ":" flow ",
 " GmtCreate ": 1533294723  000 ,
 " GmtModifie  d ": 1535449545  000 ,
 " Graph ":{
  " edges ":[
   {
    " id ":" af91f6b1 ",
    " index ": 2 ,
    " source ":" 48d474ea ",
    " sourceAnch  or ": 0 ,
    " target ":" f2764af5 ",
    " targetAnch  or ": 0
   },
   {
    " id ":" 3022d5b9 ",
    " index ": 4 ,
    " source ":" 48d474ea ",
    " sourceAnch  or ": 0 ,
    " target ":" ee4ee659 ",
    " targetAnch  or ": 0
   },
   {
    " id ":" cfa94eec ",
    " index ": 6 ,
    " source ":" f2764af5 ",
    " sourceAnch  or ": 1 ,
    " target ":" 75ba7979 ",
    " targetAnch  or ": 0
   },
   {
    " id ":" 00cd608a ",
    " index ": 7 ,
    " source ":" ee4ee659 ",
    " sourceAnch  or ": 1 ,
    " target ":" 75ba7979 ",
    " targetAnch  or ": 0
   },
   {
    " id ":" c53a4788 ",
    " index ": 9 ,
    " source ":" 75ba7979 ",
    " sourceAnch  or ": 1 ,
    " target ":" ea5b3e8f ",
    " targetAnch  or ": 0
   }
  ],
  " nodes ":[
   {
    " attribute ":{
     " jobId ":" FJ - D9595F5B79  ADBAD4 ",
     " jobType ":" SHELL ",
```

```
     " type ":" JOB "
    },
    " config ":{
     " clusterId ":" C - E2544BF486  038F9A "
    },
    " id ":" f2764af5 ",
    " index ": 0 ,
    " label ":" echo ",
    " shape ":" shellJobNo  de ",
    " size ":" 170 * 34 ",
    " spmAnchorI  d ":" 5176 . 8250060 . 0 . i158 . 771e28d0IP  NQGE
",
    " type ":" node ",
    " x ": 321 . 25 ,
    " y ": 394 . 5
   },
   {
    " attribute ":{
     " type ":" START "
    },
    " id ":" 48d474ea ",
    " index ": 1 ,
    " shape ":" startContr  olNode ",
    " size ":" 80 * 34 ",
    " spmAnchorI  d ":" 0 . 0 . 0 . i0 . 766645eb2c  mNtQ ",
    " type ":" node ",
    " x ": 500 ,
    " y ": 262
   },
   {
    " attribute ":{
     " jobId ":" FJ - 7BE1062897  B19D25 ",
     " jobType ":" SHELL ",
     " type ":" JOB "
    },
    " config ":{
     " hostName ":""
    },
    " id ":" ee4ee659 ",
    " index ": 3 ,
    " label ":" fail_job ",
    " shape ":" shellJobNo  de ",
    " size ":" 170 * 34 ",
    " spmAnchorI  d ":" 5176 . 8250060 . 0 . i11 . 6bb528d0eM  BmZQ
",
    " type ":" node ",
    " x ": 518 . 125 ,
    " y ": 456 . 5
   },
   {
    " attribute ":{
     " jobId ":" FJ - D9595F5B79  ADBAD4 ",
     " jobType ":" SHELL ",
     " type ":" JOB "
    },
    " config ":{
     " clusterId ":" C - 7CE7BC1027  6E24BE ",
     " hostName ":" emr - header - 1 . cluster - 71886 "
    },
    " id ":" 75ba7979 ",
    " index ": 5 ,
    " label ":" echo ",
    " shape ":" shellJobNo  de ",
    " size ":" 170 * 34 ",
```

```
    " spmAnchorI  d ":" 5176 . 8250060 . 0 . i11 . 6bb528d0eM  BmZQ
 ",
    " type ":" node ",
    " x ": 250 . 125 ,
    " y ": 585 . 5
   },
   {
    " attribute ":{
     " type ":" END "
    },
    " id ":" ea5b3e8f ",
    " index ": 8 ,
    " shape ":" endControl  Node ",
    " size ":" 80 * 34 ",
    " spmAnchorI  d ":" 5176 . 8250060 . 0 . i19 . 6bb528d0eM  BmZQ
 ",
    " type ":" node ",
    " x ": 239 . 125 ,
    " y ": 700 . 5
   }
  ]
 },
 " HostName ":"",
 " Id ":" F - 7A39731FE7  196358 ",
 " Name ":" flow ",
 " ParentFlow  List ":{
  " ParentFlow ":[]
 },
 " Periodic ": false ,
 " RequestId ":" E909BE04 - 1989 - 4751 - 93E6 - 1327FFC71E  C0 ",
 " Status ":" STOP_SCHED  ULE ",
 " Type ":" EMR ",
 " alertDingD  ingGroupBi  zId ":"",
 " alertUserG  roupBizId ":""
}
```


- **Error response examples**

  JSON format


```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Flow  does  not  exist  [ F - ACB9F1075C  7D62A
 ]",
 " requestId ":" 243D5A48 - 96A5 - 4C0C - 8966 - 93CBF65635  ED ",
 " successRes  ponse ": false
}
```


Error codes

View error codes.

5.16 DescribeFlowCategory

You can call this operation to view the detail of a category.

Request parameters

Name	Type	Required	Example	Description
Id	String	Yes	FC-075AB9477DAE9AAC	The ID of the category.
ProjectId	String	Yes	FP-ABD24A6163D31274	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.

Response parameters

Name	Type	Example	Description
RequestId	String	BCEDC663-43F1-4202-9C49-9D3D66EA93D7	The ID of the request.
Id	String	FC-075AB9477DAE9AAC	The ID of the category.
GmtCreate	Long	1542783867503	The creation time.
GmtModified	Long	1542783867503	The modification time.
Name	String	my_category	The name of the category.
ParentId	String	FC-3A749C1F5D12BAAC	The ID of the parent category.
Type	String	FLOW	The type. Valid values: FLOW, JOB, and ADHOC.
CategoryType	String	FILE	The type of the category. Valid values: FOLDER and FILE.

Name	Type	Example	Description
ObjectType	String	FLOW	The type of the object. Valid values: FLOW, MR, SPARK, HIVE_SQL, HIVE, PIG, SQOOP, SPARK_SQL, SPARK_STREAMING, and SHELL.
ObjectId	String	String	The ID of the object (workflow or job).
ProjectId	String	FP-E3F1523F8FC1D2E6	The ID of the project.

Examples

- Sample requests

```
/?  Action = DescribeFl  owCategory
& Id = FC - 075AB9477D  AE9AAC
& ProjectId = FP - ABD24A6163  D31274
& RegionId = region   location   id
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " code ":" 200 ",
 " data ":{
  " CategoryTy  pe ":" FILE ",
  " GmtCreate ": 1541858202  000 ,
  " GmtModifie  d ": 1541858767  000 ,
  " Id ":" FC - 3A749C1F5D  12BAAC ",
  " Name ":" myFlow ",
  " ObjectId ":" F - 33FA7CD5E1  957945 ",
  " ObjectType ":" FLOW ",
  " ParentId ":" FC - 198D4E3ACA  4F75B3 ",
  " ProjectId ":" FP - E3F1523F8F  C1D2E6 ",
  " RequestId ":" BBEB8FD9 - 3AA8 - 4D53 - 831C - 037D9C5334  8E ",
  " Type ":" FLOW "
 },
 " requestId ":" BBEB8FD9 - 3AA8 - 4D53 - 831C - 037D9C5334  8E ",
 " successRes  ponse ": true
```

```
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Project   does   not   exist  [ FP - E3F1523F8F
 C1D2E ]",
 " requestId ":" 5C5E4A6F - 5140 - 4627 - AB81 - F3E0D06C5C  36 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.17 DescribeFlowCategoryTree

You can call this operation to view the category tree.

Request parameters

Name	Type	Required	Example	Description
Type	String	Yes	FLOW	The type of the category . Valid values : FLOW, JOB, and ADHOC.
ProjectId	String	Yes	FP-ABD24A6163D31274	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.

Response parameters

Name	Type	Example	Description
RequestId	String	5C5E4A6F-5140-4627-AB81-F3E0D06C5C36	The ID of the request.

Name	Type	Example	Description
Data	String	{"node":{"categoryType":"FOLDER","gmtModified":1540344706000,"name":"FLOW","id":"FC-6B5B5BDAD3EFAB67","gmtCreate":1540344706000,"type":"FLOW","projectId":"FP-7A1018ADE9179EE1","parentId":"root_parent"},"children":[{"node":{"categoryType":"FILE","gmtModified":1542855766000,"name":"flow2","id":"FC-D30AC9A7795F03A1","gmtCreate":1542855766000,"type":"FLOW","projectId":"FP-7A1018ADE9179EE1","parentId":"FC-6B5B5BDAD3EFAB67","objectId":"F-E9DC5533695C989B","objectType":"FLOW"},"children":[],"childrenMap":{}},{"node":{"categoryType":"FILE","gmtModified":1540796206000,"name":"flow-hive","id":"FC-296E3BB9491E39F2","gmtCreate":1540796206000,"type":"FLOW","projectId":"FP-7A1018ADE9179EE1","parentId":"FC-6B5B5BDAD3EFAB67","objectId	The tree structure consisting of the node property and the children property.

Examples

- **Sample requests**

```
/?  Action = DescribeFl  owCategory  Tree
& ProjectId = FP - ABD24A6163  D31274
& RegionId = cn - hangzhou
& Type = FLOW
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
 " code ":" 200 ",
 " data ":{
  " children ":[
   {
    " children ":[],
    " childrenMa  p ":{},
    " node ":{
     " categoryTy  pe ":" FILE ",
     " gmtCreate ": 1542855766  000 ,
     " gmtModifie  d ": 1542855766  000 ,
     " id ":" FC - D30AC9A779  5F03A1 ",
     " name ":" flow2 ",
     " objectId ":" F - E9DC553369  5C989B ",
     " objectType ":" FLOW ",
     " parentId ":" FC - 6B5B5BDAD3  EFAB67 ",
     " projectId ":" FP - 7A1018ADE9  179EE1 ",
     " type ":" FLOW "
    }
   },
   {
    " children ":[],
    " childrenMa  p ":{},
    " node ":{
     " categoryTy  pe ":" FILE ",
     " gmtCreate ": 1540796206  000 ,
     " gmtModifie  d ": 1540796206  000 ,
     " id ":" FC - 296E3BB949  1E39F2 ",
     " name ":" flow - hive ",
     " objectId ":" F - 35683D0E45  734E34 ",
     " objectType ":" FLOW ",
     " parentId ":" FC - 6B5B5BDAD3  EFAB67 ",
     " projectId ":" FP - 7A1018ADE9  179EE1 ",
     " type ":" FLOW "
    }
   }
  ],
  " childrenMa  p ":{
   " FC - 296E3BB949  1E39F2 ":{
    " children ":[],
    " childrenMa  p ":{},
    " node ":{
     " categoryTy  pe ":" FILE ",
     " gmtCreate ": 1540796206  000 ,
     " gmtModifie  d ": 1540796206  000 ,
     " id ":" FC - 296E3BB949  1E39F2 ",
     " name ":" flow - hive ",
```

```
      " objectId ":" F - 35683D0E45  734E34 ",
      " objectType ":" FLOW ",
      " parentId ":" FC - 6B5B5BDAD3  EFAB67 ",
      " projectId ":" FP - 7A1018ADE9  179EE1 ",
      " type ":" FLOW "
     }
    },
    " FC - D30AC9A779  5F03A1 ":{
     " children ":[],
     " childrenMa  p ":{},
     " node ":{
      " categoryTy  pe ":" FILE ",
      " gmtCreate ": 1542855766  000 ,
      " gmtModifie  d ": 1542855766  000 ,
      " id ":" FC - D30AC9A779  5F03A1 ",
      " name ":" flow2 ",
      " objectId ":" F - E9DC553369  5C989B ",
      " objectType ":" FLOW ",
      " parentId ":" FC - 6B5B5BDAD3  EFAB67 ",
      " projectId ":" FP - 7A1018ADE9  179EE1 ",
      " type ":" FLOW "
     }
    }
   },
   " node ":{
    " categoryTy  pe ":" FOLDER ",
    " gmtCreate ": 1540344706  000 ,
    " gmtModifie  d ": 1540344706  000 ,
    " id ":" FC - 6B5B5BDAD3  EFAB67 ",
    " name ":" FLOW ",
    " parentId ":" root_paren  t ",
    " projectId ":" FP - 7A1018ADE9  179EE1 ",
    " type ":" FLOW "
   }
  },
  " requestId ":" B12F5D42 - 52C2 - 47F2 - 8A2F - 4D0D68E64E  44 ",
  " successRes  ponse ": true
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" MissingTyp  e ",
 " message ":" Type  is  mandatory  for  this  action .",
 " requestId ":" F5672ABC - 43C3 - 4A82 - A0B4 - 8484BC6A16  91 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.18 DescribeFlowInstance

You can call this operation to view the details of a workflow instance.

Request parameters

Name	Type	Required	Example	Description
Type	String	Yes	FLOW	The type of the category . Valid values : FLOW, JOB, and ADHOC.
ProjectId	String	Yes	FP-ABD24A6163D31274	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.

Response parameters

Name	Type	Example	Description
RequestId	String	EDF99BA3-F7AF-49B2-ABA1-36430A31F482	The ID of the request.
Id	String	F-String	The ID of the workflow instance.
GmtCreate	Long	1540796248000	The creation time.
GmtModified	Long	1540796248000	The modification time.
FlowId	String	F-35683D0E45734E34	The ID of the workflow.
FlowName	String	flow-hive	The name of the workflow.
ProjectId	String	FP-7A1018ADE9179EE1	The ID of the project.

Name	Type	Example	Description
Status	String	SUCCEEDED	The status of the workflow instance . Valid values: PREP, RUNNING , SUCCEEDED, FAILED, KILLED, and SUSPENDED.
ClusterId	String	C-F32FB31D82954C64	The ID of the cluster.
StartTime	Long	1540796236000	The time when the workflow instance starts running.
EndTime	Long	1540796248000	The time when the workflow instance ends running.
Duration	Long	12,000	The running duration. Unit: milliseconds.

Name	Type	Example	Description
Graph	String	{"nodes":[{"shape":"startControlNode","size":"80*34","spmAnchorId":"0.0.0.i0.766645eb2cmNtQ","x":500,"y":250,"index":0,"id":"48d474ea","attribute":{"type":"START"},"type":"node"},{"shape":"hiveSQLJobNode","size":"170*34","spmAnchorId":"5176.8250060.0.i11.499128d0KWdQvq","x":515,"y":334.5,"index":1,"id":"2f089966","label":"hive-test","attribute":{"jobId":"FJ-C6C794219DE652B9","type":"JOB","jobType":"HIVE_SQL"},"type":"node","config":{"hostName":"","clusterId":""}},{"shape":"endControlNode","size":"80*34","spmAnchorId":"5176.8250060.0.i15.499128d0KWdQvq","x":532,"y":453.5,"index":2,"id":"ac092a54","attribute":{"type":"END"},"type":"node"}],"edges":[{"sourceAnchor":0,"targetAnchor":0,"index":3,"source":"48d474ea","id":"77e6117c","target":"2f089966"},{"sourceAnchor":1,"targetAnchor":0	The graphical information of the workflow.

Name	Type	Example	Description
NodeInstance			The node instances of the workflow instance.
Id	String	FNI-9D14A7CCF2687B84	The ID of the node instance.
GmtCreate	Long	1540796236000	The creation time.
GmtModified	Long	1540796247000	The modification time.
Type	String	JOB	The type of the node. Valid values : JOB, CLUSTER, START, and END.
Status	String	OK	The status of the workflow instance. Valid values: PREP , SUBMITTING , RUNNING, DONE, OK, FAILED, KILLED, KILL_FAILED, and START_RETRY.
JobId	String	FJ-C6C794219DE652B9	The ID of the corresponding job.
JobName	String	hive-test	The name of the corresponding job.
JobType	String	HIVE_SQL	The type of the corresponding job.
FailAct	String	STOP	The action to take after failure. Valid values: STOP and CONTINUE.
MaxRetry	String	0	The maximum number of retries.
RetryInterval	String	15	The interval between retries. Unit: seconds.

Name	Type	Example	Description
NodeName	String	2f089966	The name of the node.
ClusterId	String	C-F32FB31D82954C64	The ID of the cluster.
HostName	String	emr-header-1.cluster-12345	The hostname of the host on which the workflow node instance runs. Only master nodes and gateways are supported. You can use the hostname command to view the hostname of the host that you want for running the workflow node instance.
ProjectId	String	FP-7A1018ADE9179EE1	The ID of the project.
Pending	Boolean	true	Indicates whether the workflow instance is terminated.
StartTime	Long	1540796237000	The time when the workflow instance starts running.
EndTime	Long	1540796248000	The time when the workflow instance ends running.
Duration	Long	11,000	The running duration.
Retries	Integer	0	The number of retries.
ExternalId	String	application_1540362938289_1858	The external ID. For example, the application ID of the launcher.

Name	Type	Example	Description
ExternalStatus	String	SUCCESS	The external status. Valid values : SUBMITTED , RUNNING, SUCCESS, FAIL, KILL_FAIL, and KILL_SUCCESS.
ExternalInfo	String	empty	The external information. For example, the diagnostic information of a job running error.

Examples

- Sample requests

```
/?  Action = DescribeFl  owInstance
& Id = FI - 7CAF9709CD  328EBE
& ProjectId = FP - 7A1018ADE9  179EE1
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " code ":" 200 ",
 " data ":{
  " ClusterId ":" C - F32FB31D82  954C64 ",
  " Duration ": 12000 ,
  " EndTime ": 1540796248  000 ,
  " FlowId ":" F - 35683D0E45  734E34 ",
  " FlowName ":" flow - hive ",
  " GmtCreate ": 1540796235  000 ,
  " GmtModifie  d ": 1540796247  000 ,
  " Graph ":{
   " edges ":[
    {
     " id ":" 77e6117c ",
     " index ": 3 ,
     " source ":" 48d474ea ",
     " sourceAnch  or ": 0 ,
     " target ":" 2f089966 ",
     " targetAnch  or ": 0
    },
    {
     " id ":" 95ba3716 ",
     " index ": 4 ,
     " source ":" 2f089966 ",
```

```
      " sourceAnch  or ": 1 ,
      " target ":" ac092a54 ",
      " targetAnch  or ": 0
     }
    ],
    " nodes ":[
     {
      " attribute ":{
       " type ":" START "
      },
      " id ":" 48d474ea ",
      " index ": 0 ,
      " shape ":" startContr  olNode ",
      " size ":" 80 * 34 ",
      " spmAnchorI  d ":" 0 . 0 . 0 . i0 . 766645eb2c  mNtQ ",
      " type ":" node ",
      " x ": 500 ,
      " y ": 250
     },
     {
      " attribute ":{
       " jobId ":" FJ - C6C794219D  E652B9 ",
       " jobType ":" HIVE_SQL ",
       " type ":" JOB "
      },
      " config ":{
       " clusterId ":"",
       " hostName ":""
      },
      " id ":" 2f089966 ",
      " index ": 1 ,
      " label ":" hive - test ",
      " shape ":" hiveSQLJob  Node ",
      " size ":" 170 * 34 ",
      " spmAnchorI  d ":" 5176 . 8250060 . 0 . i11 . 499128d0KW  dQvq
",
      " type ":" node ",
      " x ": 515 ,
      " y ": 334 . 5
     },
     {
      " attribute ":{
       " type ":" END "
      },
      " id ":" ac092a54 ",
      " index ": 2 ,
      " shape ":" endControl  Node ",
      " size ":" 80 * 34 ",
      " spmAnchorI  d ":" 5176 . 8250060 . 0 . i15 . 499128d0KW  dQvq
",
      " type ":" node ",
      " x ": 532 ,
      " y ": 453 . 5
     }
    ]
   },
   " Id ":" FI - 7CAF9709CD  328EBE ",
   " NodeInstan  ce ":{
    " NodeInstan  ce ":[
     {
      " ClusterId ":" C - F32FB31D82  954C64 ",
      " Duration ": 0 ,
      " EndTime ": 1540796236  000 ,
      " FailAct ":" STOP ",
```

```
      " GmtCreate ": 1540796236  000 ,
      " GmtModifie  d ": 1540796236  000 ,
      " HostName ":"",
      " Id ":" FNI - 1286C1ED46  C4577A ",
      " MaxRetry ":" 0 ",
      " NodeName ":": start :",
      " Pending ": false ,
      " ProjectId ":" FP - 7A1018ADE9  179EE1 ",
      " Retries ": 0 ,
      " StartTime ": 1540796236  000 ,
      " Status ":" OK ",
      " Type ":" START "
    },
    {
      " ClusterId ":" C - F32FB31D82  954C64 ",
      " Duration ": 11000 ,
      " EndTime ": 1540796248  000 ,
      " ExternalId ":" applicatio  n_15403629  38289_1858 ",
      " ExternalIn  fo ":"",
      " ExternalSt  atus ":" SUCCESS ",
      " FailAct ":" STOP ",
      " GmtCreate ": 1540796236  000 ,
      " GmtModifie  d ": 1540796247  000 ,
      " HostName ":" emr - header - 1 . cluster - 500159692 ",
      " Id ":" FNI - 9D14A7CCF2  687B84 ",
      " JobId ":" FJ - C6C794219D  E652B9 ",
      " JobName ":" hive - test ",
      " JobType ":" HIVE_SQL ",
      " MaxRetry ":" 0 ",
      " NodeName ":" 2f089966 ",
      " Pending ": false ,
      " ProjectId ":" FP - 7A1018ADE9  179EE1 ",
      " Retries ": 0 ,
      " RetryInter  val ":" 15 ",
      " StartTime ": 1540796237  000 ,
      " Status ":" OK ",
      " Type ":" JOB "
    },
    {
      " ClusterId ":" C - F32FB31D82  954C64 ",
      " Duration ": 0 ,
      " EndTime ": 1540796248  000 ,
      " FailAct ":" STOP ",
      " GmtCreate ": 1540796247  000 ,
      " GmtModifie  d ": 1540796247  000 ,
      " HostName ":"",
      " Id ":" FNI - 14C14E312A  F94FB8 ",
      " MaxRetry ":" 0 ",
      " NodeName ":" ac092a54 ",
      " Pending ": false ,
      " ProjectId ":" FP - 7A1018ADE9  179EE1 ",
      " Retries ": 0 ,
      " StartTime ": 1540796248  000 ,
      " Status ":" OK ",
      " Type ":" END "
    }
   ]
  },
  " ProjectId ":" FP - 7A1018ADE9  179EE1 ",
  " RequestId ":" EDF99BA3 - F7AF - 49B2 - ABA1 - 36430A31F4  82 ",
  " StartTime ": 1540796236  000 ,
  " Status ":" SUCCEEDED "
},
" requestId ":" EDF99BA3 - F7AF - 49B2 - ABA1 - 36430A31F4  82 ",
```

```
 " successRes  ponse ": true
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" flow  instance  does  not  exist  [ FI -
 7CAF9709CD  328EB ]",
 " requestId ":" 9AEDC439 - 1F63 - 491D - B8C6 - 9737C372BF  3A ",
 " successRes  ponse ": false
}
```

Error codes.

View error codes.

5.19 DescribeFlowJob

You can call this operation to view the details of a job.

Request parameters

Name	Type	Required	Example	Description
Id	String	Yes	FJ-BCCAE48B90CCB37B	The ID of the job.
ProjectId	String	Yes	FP-257A173659F59685	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.

Response parameters

Name	Type	Example	Description
RequestId	String	1549175a-6d14-4c8a-89f9-5e28300f6d7e	The ID of the request.
Id	String	FJ-BCCAE48B90CCB37B	The ID of the job.
GmtCreate	Long	1538017814000	The creation time.
GmtModified	Long	1538017814000	The modification time.
Name	String	Name	The name of the job.

Name	Type	Example	Description
Type	String	SHELL	The type of the job . Valid values: MR, SPARK, HIVE_SQL, HIVE, PIG, SQOOP , SPARK_SQL, SPARK_STRE AMING, and SHELL .
Description	String	"This is a job description."	The description of the job.
FailAct	String	CONTINUE	The action to take after failure. Valid values: STOP and CONTINUE.
MaxRetry	Integer	5	The maximum number of retries. Valid values: 0 to 5.
RetryInterval	Long	200	The interval between retries. Valid values: 0 to 300. Unit: seconds.
Params	String	ls -l	The content of the job.
ParamConf	String	{"date":"${yyyy-MM -dd}"}	The configurations of the parameters.
EnvConf	String	{"key":"value"}	The configurations of the environment variables.

Name	Type	Example	Description
RunConf	String	{"priority":1,"userName":"hadoop","memory":2048,"cores":1}	The run configurations. priority: The priority to run the instance. userName: The Linux user that submits the instance. memory: The size of the allocated memory for running the instance. Unit: megabytes. cores: The number of allocated vCPUs for running the instance.
MonitorConf	String	{"inputs":[{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic","consumer.group":"kafka_consumer_group"}],"outputs":[{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic"}]}	The monitoring configurations. Only jobs of the SPARK_STREAMING type are supported.
CategoryId	String	FC-5BD9575E34623940	The category ID of the job.
mode	String	YARN	The mode of the model. Valid values: YARN and LOCAL.
LastInstanceId	String	FJI-ACCAE48B90CCB37B	The ID of the last instance that is run.
Adhoc	String	true	Indicates whether the instance is an ad-hoc query.
ResourceList			The list of the resources.

Name	Type	Example	Description
Path	String	oss://path/demo.jar	The path of the resource.
Alias	String	demo.jar	The alias of the resource.

Examples

- Sample requests

```
/?  Id = FJ - BCCAE48B90  CCB37B
& ProjectId = FP - 257A173659  F59685
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " CategoryId ":" FC - F2495319DA  05CEE5 ",
 " Descriptio  n ":" shell ",
 " FailAct ":" STOP ",
 " GmtCreate ": 1538017814  000 ,
 " GmtModifie  d ": 1538017814  000 ,
 " Id ":" FJ - C7FB9F1075  C7D62A ",
 " MaxRetry ": 0 ,
 " Name ":" shell_copy ",
 " Params ":" ls  - l ",
 " RequestId ":" 7D2B1B2E - 8D89 - 49C1 - 8D31 - 097C83879D  20 ",
 " ResourceLi  st ":{
  " Resource ":[]
 },
 " RetryInter  val ": 15 ,
 " Type ":" SHELL "
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Flow   Job   does   not   exist  [ FJ - A10DB75C7D
 62A ]",
 " requestId ":" 243D5A48 - 96A5 - 4C0C - 8966 - 93CBF65635  ED ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.20 DescribeFlowNodeInstance

You can call this operation to view the details of a workflow node instance or a job instance.

Request parameters

Name	Type	Required	Example	Description
Id	String	Yes	FNI-FE4BD156E939CF1F	The ID of the workflow node instance or the job instance.
ProjectId	String	Yes	FP-7A1018ADE9179EE1	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.

Response parameters

Name	Type	Example	Description
RequestId	String	1549175a-6d14-4c8a-89f9-5e28300f6d7e	The ID of the request.
Id	String	FNI-9D14A7CCF2687B84	The ID of the workflow node instance or the job instance.
GmtCreate	Long	1540796236000	The creation time.
GmtModified	Long	1540796247000	The modification time.
Type	String	JOB	Thet type of the workflow node. Valid values: JOB, CLUSTER, START, and END.

Name	Type	Example	Description
Status	String	OK	The status of the workflow node instance. Valid values: PREP, SUBMITTING, RUNNING, DONE, OK, FAILED, KILLED, KILL_FAILED, and START_RETRY.
JobId	String	FJ-A23BD131A862F184	The ID of the job.
JobName	String	myJob	The name of the job.
JobType	String	HIVE_SQL	The type of the job.
JobParams	String	ls -l	The content of the job.
FailAct	String	STOP	The action to take after failure. Valid values: STOP and CONTINUE.
MaxRetry	String	0	The maximum number of retries.
RetryInterval	String	15	The interval between retries. Unit: seconds.
NodeName	String	The name of the workflow node.	The name of the workflow node.
FlowId	String	F-35683D0E45734E34	The ID of the workflow.
FlowInstanceId	String	FI-7CAF9709CD328EBE	The ID of the workflow instance.
ClusterId	String	C-A6C9F4F1E9EC88D9	The ID of the cluster.

Name	Type	Example	Description
HostName	String	emr-header-1.cluster-12345	The hostname of the host on which the workflow node instance runs. Only master nodes and gateways are supported. You can use the hostname command to view the hostname of the host that you want for running the workflow node instance.
ProjectId	String	FP-7A1018ADE9179EE1	The ID of the project.
Pending	Boolean	true	Indicates whether the instance is running.
StartTime	Long	1540796237000	The time when the instance starts running.
EndTime	Long	1540796248000	The time when the instance ends running.
Duration	Long	200	The run time duration of the instance.
Retries	Integer	0	The number of the retries.
ExternalId	String	application_1541559535023_34027	The ID of the launcher application.
ExternalSubId	String	container_1541559535023_34027_01_000001	The container ID of the launcher.

Name	Type	Example	Description
ExternalChildIds	String	application_1541559535023_34028	The application list of the jobs.
ExternalStatus	String	SUCCESS	The external status. Valid values: SUBMITTED, RUNNING, SUCCESS, FAIL, KILL_FAIL, and KILL_SUCCESS.
ExternalInfo	String	empty	The external information. For example, the diagnostic information of a job running error.
ParamConf	String	{"date":"${yyyy-MM-dd}"}	The configurations of the parameters.
EnvConf	String	{"key":"value"}	The environment variables.
RunConf	String	{"priority":1,"userName":"hadoop","memory":2048,"cores":1}	The run configurations. priority: The priority to run the instance. userName: The Linux user that submits the instance. memory: The size of the allocated memory for running the instance. Unit: megabytes. cores: The number of allocated vCPUs for running the instance.
Adhoc	Boolean	true	Indicates whether the instance is an ad-hoc query.

Name	Type	Example	Description
MonitorConf	String	{"inputs":[{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic","consumer.group":"kafka_consumer_group"}],"outputs":[{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic"}]}	The monitoring configurations. Only jobs of the SPARK_STREAMING type are supported.
Mode	String	YARN	The mode of the model. Valid values: YARN and LOCAL. YARN: The job is submitted to and runs on YARN as a launcher. LOCAL: The job runs on the local machine as a process.
ClusterName	String	myCluster	The name of the cluster.

Examples

- Sample requests

```
/?  Action = DescribeFl  owNodeInst  ance
& Id = node_insta  nce_id
& ProjectId = FP - 7A1018ADE9  179EE1
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " code ":" 200 ",
 " data ":{
  " ClusterId ":" C - F32FB31D82  954C64 ",
  " ClusterNam  e ":" mingbo - v199v1 ",
  " Duration ": 74000 ,
  " EndTime ": 1542884476  000 ,
```

```
  " ExternalId ":" applicatio  n_15415595  35023_3402  7 ",
  " ExternalIn  fo ":"",
  " ExternalSt  atus ":" SUCCESS ",
  " ExternalSu  bId ":" container_  1541559535  023_34027_
 01_000001 ",
  " FailAct ":" STOP ",
  " FlowId ":" F - 60C9B1257A  804624 ",
  " FlowInstan  ceId ":" FI - C112BB938D  2C5FBF ",
  " GmtCreate ": 1542884401  000 ,
  " GmtModifie  d ": 1542884475  000 ,
  " HostName ":" emr - header - 1 . cluster - 500159692 ",
  " Id ":" FNI - E548777B9D  CD2237 ",
  " JobId ":" FJ - EE3AF471B2  E69785 ",
  " JobName ":" success ",
  " JobParams ":" sleep   10 ;\ nexit   0 ;",
  " JobType ":" SHELL ",
  " MaxRetry ":" 0 ",
  " NodeName ":" 812589f5 ",
  " ParamConf ":{
   " cyctime ":" 2018 - 11 - 22   19 : 00 : 00 "
  },
  " Pending ": false ,
  " ProjectId ":" FP - 3535FE0BE5  224A47 ",
  " RequestId ":" F5540D8F - 06E8 - 4E3C - B47A - D75CED72A7  95 ",
  " Retries ": 0 ,
  " RetryInter  val ":" 15 ",
  " StartTime ": 1542884402  000 ,
  " Status ":" OK ",
  " Type ":" JOB "
 },
 " requestId ":" F5540D8F - 06E8 - 4E3C - B47A - D75CED72A7  95 ",
 " successRes  ponse ": true
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Project   does   not   exist  [ FP - 3535FE0BE5
 224A4 ]",
 " requestId ":" 83B256D4 - 4E95 - 454B - AD08 - 799DF31D55  56 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.21 DescribeFlowNodeInstanceContainerLog

You can call this operation to view the logs of a node instance container.

Request parameters

Name	Type	Required	Example	Description
AppId	String	Yes	application_1542620905989_0010	The ID of the application.
ContainerId	String	Yes	container_1542620905989_0010_01_000001	The ID of the container.
LogName	String	Yes	stderr	The type of the log. Valid values: stderr, syslog, and stdout.
NodeInstanceId	String	Yes	FNI-0D2534B3AB675B63	The ID of the node instance.
ProjectId	String	Yes	FP-BECB9D35CB121F32	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.
Length	Integer	No	200	The length of the log. Length constraints: Maximum length of 1,000.
Offset	Integer	No	0	The offset.

Response parameters

Name	Type	Example	Description
RequestId	String	4E216C44-F828-4D59-B398-253DCF86F23C	The ID of the request.

Name	Type	Example	Description
LogEnd	Boolean	true	Indicates whether all logs are shown.
LogEntrys			The entry of the log .
Content	String	2018-11-19 17: 55:11,792 INFO [RMCommunic ator Allocator] org.apache. hadoop.yarn.util .RackResolver : Resolved emr-worker-1.cluster -500160492 to / default-rack	The content of the log.

Examples

- Sample requests

```
/?  Action = DescribeFl  owNodeInst  anceContai  nerLog
& AppId = applicatio  n_15426209  05989_0010
& ContainerI  d = container_  1542620905  989_0010_0  1_000001
& LogName = stderr
& NodeInstan  ceId = FNI - 0D2534B3AB  675B63
& ProjectId = FP - BECB9D35CB  121F32
& RegionId = cn - hangzhou
& Length = 200
& Offset = 0
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " code ":" 200 ",
 " data ":{
  " LogEnd ": false ,
  " LogEntrys ":{
   " LogEntry ":[
    {
     " Content ":" 2018 - 11 - 19   17 : 55 : 11 , 792   INFO  [
 RMCommunic  ator   Allocator ]  org . apache . hadoop . yarn .
 util . RackResolv  er :  Resolved   emr - worker - 1 . cluster -
 500160492   to  / default - rack "
    },
    {
     " Content ":" 2018 - 11 - 19   17 : 55 : 11 , 793   INFO  [
 RMCommunic  ator   Allocator ]  org . apache . hadoop . yarn .
```

```
 util . RackResolv  er :  Resolved   emr - worker - 2 . cluster -
 500160492   to  / default - rack "
    }
   ]
  },
  " RequestId ":" 4E216C44 - F828 - 4D59 - B398 - 253DCF86F2  3C "
 },
 " requestId ":" 4E216C44 - F828 - 4D59 - B398 - 253DCF86F2  3C ",
 " successRes  ponse ": true
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" flow   node   instance   does   not   exist  [ FNI -
 0D2534B3AB  675B6 ]",
 " requestId ":" D737D945 - 7F58 - 4E9D - 8E19 - E720556C46  D5 ",
 " successRes  ponse ":  true
}
```

Error codes

View error codes.

5.22 DescribeFlowNodeInstanceLauncherLog

You can call this operation to view the logs of a node instance launcher.

Request parameters

Parameter	Type	Required	Example	Description
NodeInstanceId	String	Yes	FNI-0D2534B3AB675B63	The ID of the node instance.
ProjectId	String	Yes	FP-BECB9D35CB121F32	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.
EndTime	Long	No	1540796248000	The start time of the query.
Length	Integer	No	100	This is a legacy parameter.

Parameter	Type	Required	Example	Description
Lines	Integer	No	100	The length of the log. Length constraints : Maximum length of 1,000.
Offset	Integer	No	200	This is a legacy parameter.
Reverse	Boolean	No	true	Indicates whether the logs are shown in reverse order.
Start	Integer	No	200	The initial offset.
StartTime	Long	No	1540796236000	The start time of the query.

Response parameters

Name	Type	Example	Description
RequestId	String	4E216C44-F828-4D59-B398-253DCF86F23C	The ID of the request.
LogEnd	Boolean	false	Indicates whether all logs are shown.
LogEntrys			The entry of the log .
Content	String	2018-11-19 17:55:11,792 INFO [RMCommunicator Allocator] org.apache.hadoop.yarn.util.RackResolver : Resolved emr-worker-1.cluster-500160492 to /default-rack	The content of the log.

Examples

- **Sample requests**

```
/?  Action = DescribeFl  owNodeInst  anceLaunch  erLog
& NodeInstan  ceId = FNI - 0D2534B3AB  675B63
& ProjectId = FP - BECB9D35CB  121F32
& RegionId = cn - hangzhou
& EndTime = 1540796248  000
& Lines = 100
& Reverse = true
& Start = 200
& StartTime = 1540796236  000
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
 " code ":" 200 ",
 " data ":{
  " LogEnd ": false ,
  " LogEntrys ":{
   " LogEntry ":[
    {
     " Content ":" Fri   Nov   16   09 : 56 : 00   CST   2018  [
 LocalJobLa  uncherAM ]  INFO   Starting   emr   flow   launcher
 am  ..."
    },
    {
     " Content ":"==  System   Properties  ============"
    },
    {
     " Content ":"   java . runtime . name = OpenJDK   Runtime
 Environmen  t "
    }
   ]
  },
  " RequestId ":" F4BBBCEF - 20B9 - 4AD2 - 99EF - E1BA8D72B2  C3 "
 },
 " requestId ":" F4BBBCEF - 20B9 - 4AD2 - 99EF - E1BA8D72B2  C3 ",
 " successRes  ponse ": true
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" flow   instance   does   not   exist  [ FNI -
 2DC5BBC3D4  7FE45 ]",
 " requestId ":" 2D695EEA - DB91 - 498B - B974 - 464BCED329  3B ",
 " successRes  ponse ": false
```

```
}
```

Error codes

View error codes.

5.23 DescribeFlowProject

You can call this operation to view the details of a project.

Request parameters

Parameter	Type	Required	Example	Description
ProjectId	String	Yes	FP-5D55DA9DEDF22ED3	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The region location ID.

Response parameters

Name	Type	Example	Description
RequestId	String	ACD3A7A5-CD6E-48DA-823B-ACE5B01DA43D	The ID of the request.
Id	String	FP-5D55DA9DEDF22ED3	The ID of the project.
GmtCreate	Long	1542934807000	The creation time.
GmtModified	Long	1542934807000	The modification time.
UserId	String	123456789	The ID of the Alibaba Cloud account.
Name	String	project_name_demo	The name of the project.
Description	String	project description demo	Description

Examples

- **Sample requests**

```
/?  Action = DescribeFl  owProject
& ProjectId = FP - 5D55DA9DED  F22ED3
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
 " code ":" 200 ",
 " data ":{
  " Descriptio  n ":" integratio  n_test_pro  ject ",
  " GmtCreate ": 1542934807  000 ,
  " GmtModifie  d ": 1542934807  000 ,
  " Id ":" FP - 5D55DA9DED  F22ED3 ",
  " Name ":" integratio  n_test_pro  ject ",
  " RequestId ":" ACD3A7A5 - CD6E - 48DA - 823B - ACE5B01DA4  3D ",
  " UserId ":" 123456789 "
 },
 " requestId ":" ACD3A7A5 - CD6E - 48DA - 823B - ACE5B01DA4  3D ",
 " successRes  ponse ": true
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Project   does   not   exist  [ FP - 3535FE0BE5
 224A4 ]",
 " requestId ":" 93F6F3CF - B2AE - 411A - 948F - 0F7293058C  F5 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.24 DescribeFlowProjectClusterSetting

You can call this operation to view the cluster settings for a project.

Request parameters

Parameter	Type	Required	Example	Description
ClusterId	String	Yes	C-DCEE11B49C8F42B4	The ID of the cluster.

Parameter	Type	Required	Example	Description
ProjectId	String	Yes	FP-ED2F3E844F E383AA	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The region location ID.

Response parameters

Name	Type	Example	Description
RequestId	String	F2168FB7-8E60 -44EE-A946- DA887297D3D1	The ID of the request.
GmtCreate	Long	1541561123000	The creation time.
GmtModified	Long	1541561123000	The modification time.
ProjectId	String	String	The ID of the project.
ClusterId	String	C-DCEE11B49C 8F42B4	The ID of the cluster.
DefaultUser	String	hadoop	The default Linux user to submit jobs.
DefaultQueue	String	default	The default queue for job submission.
UserList	String	"User": ["hadoop"]	The whitelist of Linux users for job submission.
QueueList	String	"Queue": ["default"]	The whitelist of queues for job submission.
HostList	String	"Host":["emr-header-1.cluster-500159692"	The whitelist of hosts for job submission.

Examples

- Sample requests

```
/?  Action = DescribeFl  owProjectC  lusterSett  ing
& ClusterId = C - DCEE11B49C  8F42B4
& ProjectId = FP - ED2F3E844F  E383AA
```

```
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
 " code ":" 200 ",
 " data ":{
  " ClusterId ":" C - F32FB31D82  954C64 ",
  " DefaultQue  ue ":" undefined ",
  " DefaultUse  r ":" hadoop ",
  " GmtCreate ": 1541561123  000 ,
  " GmtModifie  d ": 1542948908  000 ,
  " HostList ":{
   " Host ":[" emr - header - 1 . cluster - 500159692 "]
  },
  " ProjectId ":" FP - 3535FE0BE5  224A47 ",
  " QueueList ":{
   " Queue ":[]
  },
  " RequestId ":" 80F270E8 - 27BD - 4F24 - BB2A - CD3FBCC450  DA ",
  " UserList ":{
   " User ":[]
  }
 },
 " requestId ":" 80F270E8 - 27BD - 4F24 - BB2A - CD3FBCC450  DA ",
 " successRes  ponse ": true
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Project   does   not   exist  [ FP - 3535FE0BE5
 224A4 ]",
 " requestId ":" 93F6F3CF - B2AE - 411A - 948F - 0F7293058C  F5 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.25 KillFlowJob

You can call this operation to terminate a job instance.

Request parameters

Parameter	Type	Required	Example	Description
JobInstanceId	String	Yes	FJI-9DDAAA3ADA5F6FA2	The ID of the node instance.
ProjectId	String	Yes	FP-3535FE0BE5224A47	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The region location ID.

Response parameters

Name	Type	Example	Description
RequestId	String	B46F8A2A-B46B-415C-8A9C-B01B99B775A2	The ID of the request.
Data	Boolean	true	Indicates whether the job instance is terminated.

Examples

- Sample requests

```
/?  Action = KillFlowJo  b
& JobInstanc  eId = FJI - 9DDAAA3ADA  5F6FA2
& ProjectId = FP - 3535FE0BE5  224A47
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " Data ": true ,
 " RequestId ":" B46F8A2A - B46B - 415C - 8A9C - B01B99B775  A2 "
```

```
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" project   not   exist ",
 " requestId ":" 11BAFBD8 - 8509 - 4177 - A26D - 407505E737  13 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.26 ListFlow

You can call this operation to view the list of workflows.

Request parameters

Parameter	Type	Required	Example	Description
ClusterId	String	No	C-F32FB31D82954C64	The ID of the cluster.
Id	String	No	F-A32FB31D82954C64	The ID of the workflow.
RegionId	String	Yes	cn-hangzhou	The region location ID.
JobId	String	No	FJ-F32FB31D82954C64	The ID of the job.
Name	String	No	my_flow	The name of the workflow.
PageNumber	Integer	No	1	The page number to request.
PageSize	Integer	No	20	The number of records requested to shown on each page.

Parameter	Type	Required	Example	Description
Periodic	Boolean	No	true	Indicates whether the workflows are scheduled periodically.
ProjectId	String	No	FP-3535FE0BE5224A47	The ID of the project.
Status	String	No	STOP_SCHEDULE	The status of the workflows. Valid values: STOP_SCHEDULE and UNDER_SCHEDULE.

Response parameters

Name	Type	Example	Description
RequestId	String	7DDFF4C7-3AE3-485F-BFA1-BAE0AA3689DD	The ID of the request.
PageNumber	Integer	1	The page number.
PageSize	Integer	20	The number of records on each page.
Total	Integer	1	The total number of records.
Flow			The list of the workflows.
Id	String	7A39731FE7196358	The ID of the workflow.
GmtCreate	Long	1541561048000	The creation time.
GmtModified	Long	1542902401000	The modification time.
Name	String	my_flow_demo	The name of the workflow.
Description	String	my flow demo	The description of the workflow.

Name	Type	Example	Description
Type	String	EMR	Valid value: EMR.
Status	String	UNDER_SCHEDULE	The status of the workflow . Valid values: STOP_SCHEDULE and UNDER_SCHEDULE.
Periodic	Boolean	true	Indicates whether the workflow is scheduled periodically.
StartSchedule	Long	1541561443000	The start time of the schedule.
EndSchedule	Long	4102416001000	The
The end time of the schedule.	String	0 0 0 * * ?	The cron expression of the schedule.
CreateCluster	Boolean	false	Indicates whether the cluster is created using a cluster template.
ClusterId	String	C-F32FB31D82954C64	The ID of the cluster.
ProjectId	String	FP-3535FE0BE5224A47	The ID of the project.
HostName	String	emr-header-1.cluster-123456	The information of the host on which the workflow is run.

Name	Type	Example	Description
Graph	String	{"nodes":[{"id":"48d474ea","index":0,"spmAnchorId":"0.0.0.i0.766645eb2cmNtQ","attribute":{"type":"START"},"shape":"startControlNode","type":"node","y":250,"size":"80*34","x":500},{"id":"7ba480b3","index":1,"spmAnchorId":"5176.8250060.0.i19.771e28d0IPNQGE","attribute":{"jobType":"SHELL","jobId":"FJ-7BE1062897B19D25","type":"JOB"},"config":{"hostName":""},"label":"fail_job","shape":"shellJobNode","type":"node","y":398.5,"size":"170*34","x":470.5},{"id":"33202d60","index":2,"spmAnchorId":"5176.8250060.0.i23.771e28d0IPNQGE","attribute":{"type":"END"},"shape":"endControlNode","type":"node","y":562.5,"size":"80*34","x":430.5}],"edges":[{"id":"28167ea0","index":3,"source":"48d474ea","sourceAnchor":0,"target":"7ba480b3","targetAnchor":0},{"id":"e8d5ff52","index":4,"source":"7ba480b3","sourceAnchor":1,"target":"33202d60","	The graphical information of the workflow.

Name	Type	Example	Description
AlertUserGroupBizId	String	Expired	The ID of the user group to send alerts.
AlertDingDingGroupBizId	String	Expired	The ID of the DingTalk group to send alerts.
CategoryId	String	FC-2CF58396A18923B6	The ID of the category.

Examples

- Sample requests

```
/?  Action = ListFlow
& RegionId = cn - hangzhou
& ClusterId = C - F32FB31D82  954C64
& Id = F - A32FB31D82  954C64
& JobId = FJ - F32FB31D82  954C64
& Name = my_flow
& PageNumber = 1
& PageSize = 20
& Periodic = true
& ProjectId = FP - 3535FE0BE5  224A47
& Status = STOP_SCHED  ULE
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " Flow ":{
  " Flow ":[{
   " CategoryId ":" FC - 2CF58396A1  8923B6 ",
   " ClusterId ":" C - F32FB31D82  954C64 ",
   " CreateClus  ter ": false ,
   " CronExpr ":" 0   0   0  * * ?",
   " Descriptio  n ":" daily_0 ",
   " EndSchedul  e ": 4102416001  000 ,
   " GmtCreate ": 1541561048  000 ,
   " GmtModifie  d ": 1542902401  000 ,
   " HostName ":"",
   " Id ":" F - D156B45E06  F1CA8E ",
   " Name ":" daily_0 ",
   " Periodic ": true ,
   " ProjectId ":" FP - 3535FE0BE5  224A47 ",
   " StartSched  ule ": 1541561443  000 ,
   " Status ":" UNDER_SCHE  DULE ",
   " Type ":" EMR "
  }]
 },
 " PageNumber ": 1 ,
 " PageSize ": 500 ,
```

```
 " RequestId ":" 7DDFF4C7 - 3AE3 - 485F - BFA1 - BAE0AA3689  DD ",
 " Total ": 1
}
&< Common   request   parameters >
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Project   does   not   exist  [ FP - 3535FE0BE5
 224A4 ]",
 " requestId ":" 93F6F3CF - B2AE - 411A - 948F - 0F7293058C  F5 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.27 ListFlowCluster

You can call this operation to view the list of the project clusters that are available for data development.

Request parameters

Parameter	Type	Required	Example	Description
ProjectId	String	Yes	FP-5D55DA9DEDF22ED3	The ID of the project.
PageNumber	Integer	No	1	The number of the page to request.
RegionId	String	Yes	cn-hangzhou	The ID of the region.
PageSize	Integer	No	20	The number of records to show on each page.

Response parameters

Name	Type	Example	Description
RequestId	String	0d18b019-00ab-455f-b60c-2891bf02f538	The ID of the request.

Name	Type	Example	Description
TotalCount	Integer	42	The total number of records.
PageNumber	Integer	1	The page number to request.
PageSize	Integer	20	The number of records to show on each page.
Clusters			The list of the clusters.
Id	String	C-2E6ABBD39BD09F97	The ID of the cluster.
Name	String	String	The name of the cluster.
Type	String	HADOOP	The type of the cluster.
CreateTime	Long	1542953603000	The creation time.
RunningTime	Integer	200	The running time. Unit: seconds.
Description	String	my flow demo	The description of the workflow.
Status	String	SUCCESS	Status
ChargeType	String	PostPaid	The billing method.
ExpiredTime	Long	1542953603000	The time when the cluster expires.
Period	Integer	1	The length of subscription.
HasUncompletedOrder	Boolean	false	Indicates whether uncompleted orders exist.
OrderList	String	1,2	Order List
CreateResource	String	ECM_EMR	The resources.
OrderTaskInfo			The information of the order task.
TargetCount	Integer	2	The target number.

Name	Type	Example	Description
CurrentCount	Integer	2	The current number.
OrderIdList	String	1,2	The list of orders.
FailReason			The causes of failure.
Error code	String	123	Error codes
ErrorMsg	String	failed	The cause of the error.
RequestId	String	0d18b019-00ab-455f-b60c-2891bf02f538	The ID of the request.

Examples

- Sample requests

```
/?  ProjectId = FP - 5D55DA9DED  F22ED3
& RegionId = cn - hangzhou
& PageNumber = 1
& PageSize = 20
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
    " Clusters ":{
        " ClusterInf  o ":[
            {
                " ChargeType ":" PostPaid ",
                " CreateReso  urce ":" ECM_EMR ",
                " CreateTime ": 1542953603  000 ,
                " FailReason ":{},
                " HasUncompl  etedOrder ": false ,
                " Id ":" C - 4042079DFF  01A3F5 ",
                " Name ":" zx - presto - 1 ",
                " OrderTaskI  nfo ":{},
                " RunningTim  e ": 1322 ,
                " Status ":" IDLE ",
                " Type ":" HADOOP "
            },
            {
                " ChargeType ":" PostPaid ",
                " CreateReso  urce ":" ECM_EMR ",
                " CreateTime ": 1542950611  000 ,
                " FailReason ":{},
                " HasUncompl  etedOrder ": false ,
                " Id ":" C - 3D0B532535  95DBB0 ",
                " Name ":" zx - presto - 213 ",
                " OrderTaskI  nfo ":{},
```

```
                " RunningTim  e ": 4314 ,
                " Status ":" IDLE ",
                " Type ":" HADOOP "
            }
        ]
    },
    " PageNumber ": 1 ,
    " PageSize ": 10 ,
    " TotalCount ": 2
}
```

- **Error response examples**

  JSON format

```
{
    " Clusters ":{
        " ClusterInf  o ":[
            {
                " ChargeType ":" PostPaid ",
                " CreateReso  urce ":" ECM_EMR ",
                " CreateTime ": 1542953603  000 ,
                " FailReason ":{},
                " HasUncompl  etedOrder ": false ,
                " Id ":" C - 4042079DFF  01A3F5 ",
                " Name ":" zx - presto - 1 ",
                " OrderTaskI  nfo ":{},
                " RunningTim  e ": 1322 ,
                " Status ":" IDLE ",
                " Type ":" HADOOP "
            },
            {
                " ChargeType ":" PostPaid ",
                " CreateReso  urce ":" ECM_EMR ",
                " CreateTime ": 1542950611  000 ,
                " FailReason ":{},
                " HasUncompl  etedOrder ": false ,
                " Id ":" C - 3D0B532535  95DBB0 ",
                " Name ":" zx - presto - 213 ",
                " OrderTaskI  nfo ":{},
                " RunningTim  e ": 4314 ,
                " Status ":" IDLE ",
                " Type ":" HADOOP "
            }
        ]
    },
    " PageNumber ": 1 ,
    " PageSize ": 10 ,
    " TotalCount ": 2
}
```

Error codes

View error codes.

5.28 ListFlowClusterAll

You can call this operation to view the list of the clusters that are available for data development.

Request parameters

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-hangzhou	The ID of the region.

Response parameters

Name	Type	Example	Description
RequestId	String	0d18b019-00ab-455f-b60c-2891bf02f538	The ID of the request.
TotalCount	Integer	42	The total number of records.
PageNumber	Integer	1	The page number to request.
PageSize	Integer	20	The number of records to show on each page.
Clusters			The list of the clusters.
Id	String	C-2E6ABBD39BD09F97	The ID of the cluster.
Name	String	String	The name of the cluster.
Type	String	HADOOP	The type of the cluster.
CreateTime	Long	1542953603000	The creation time.
RunningTime	Integer	200	The running time. Unit: seconds.
Status	String	SUCCESS	The status of the cluster.
ChargeType	String	PostPaid	The billing method.

Name	Type	Example	Description
ExpiredTime	Long	1542953603000	The time when the cluster expires.
Period	Integer	1	The length of subscription.
HasUncompl etedOrder	Boolean	false	Indicates whether unpaid orders exist.
OrderList	String	1 and 2	The list of the orders.
CreateResource	String	ECM_EMR	The resources.
OrderTaskInfo			The information of the order task.
TargetCount	Integer	2	The target number.
CurrentCount	Integer	2	The current number.
OrderIdList	String	1,2	The list of the orders.
FailReason			The causes of failure.
Error code	String	123	Error codes
ErrorMsg	String	failed	The cause of the error.
RequestId	String	0d18b019-00ab-455f -b60c-2891bf02f538	The ID of the request.

Examples

- Sample requests

```
/?  Action = ListFlowCl  usterAll
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " Clusters ":{
  " ClusterInf  o ":[
   {
    " ChargeType ":" PostPaid ",
```

```
      " CreateReso  urce ":" ECM_EMR ",
      " CreateTime ": 1542953603  000 ,
      " FailReason ":{},
      " HasUncompl  etedOrder ": false ,
      " Id ":" C - 4042079DFF  01A3F5 ",
      " Name ":" zx - presto - 1 ",
      " OrderTaskI  nfo ":{},
      " RunningTim  e ": 1322 ,
      " Status ":" IDLE ",
      " Type ":" HADOOP "
    },
    {
      " ChargeType ":" PostPaid ",
      " CreateReso  urce ":" ECM_EMR ",
      " CreateTime ": 1542950611  000 ,
      " FailReason ":{},
      " HasUncompl  etedOrder ": false ,
      " Id ":" C - 3D0B532535  95DBB0 ",
      " Name ":" zx - presto - 213 ",
      " OrderTaskI  nfo ":{},
      " RunningTim  e ": 4314 ,
      " Status ":" IDLE ",
      " Type ":" HADOOP "
    }
  ]
 },
 " PageNumber ": 1 ,
 " PageSize ": 10 ,
 " TotalCount ": 2
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Project   does   not   exist  [ FP - 3535FE0BE5
 224A4 ]",
 " requestId ":" 93F6F3CF - B2AE - 411A - 948F - 0F7293058C  F5 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.29 ListFlowClusterAllHosts

You can call this operation to list all cluster hosts that can be added to the whitelist of a project. Currently, only master nodes and gateways are supported.

Request parameters

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-hangzhou	The ID of the region.
ClusterId	String	Yes	C-F32FB31D82954C64	The ID of the cluster.
ProjectId	String	Yes	FP-3535FE0BE5224A47	The ID of the project.

Response parameters

Name	Type	Example	Description
RequestId	String	2E429517-6A50-4082-9A30-47755CE9F9A5	The ID of the request.
HostList			The list of the hosts.
HostId	String	119555	The ID of the host.
HostName	String	emr-header-1.cluster-500159692	The name of the host.
PublicIp	String	192.0.0.1	The public IP address.
PrivateIp	String	127.0.0.1	The private IP address.
Role	String	CORE	The role of the node.
InstanceType	String	ecs.n4.xlarge	The instance type.
Cpu	Integer	4	The number of vCPUs.
Memory	Integer	8	The size of the memory. Unit: gigabytes.

Name	Type	Example	Description
Status	String	STARTING	The status of the host.
Type	String	VM	Type
HostInstanceId	String	i-bp1agi4417 dx08sig82j	The ID of the host instance.
SerialNumber	String	6dc097b0-5e92-4e08 -a49e-37c26c78cf9f	The serial number of the host instance .

Examples

- Sample requests

```
/?  ClusterId = C - F32FB31D82  954C64
& ProjectId = FP - 3535FE0BE5  224A47
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " HostList ":{
  " Host ":[{
   " Cpu ": 4 ,
   " HostId ":" 119555 ",
   " HostInstan  ceId ":" i - bp1agi4417  dx08sig82j ",
   " HostName ":" emr - header - 1 . cluster - 500159692 ",
   " Memory ": 8 ,
   " PrivateIp ":" 192 . 168 . 100 . 251 ",
   " PublicIp ":" 47 . 99 . 183 . 218 ",
   " Role ":" MASTER ",
   " SerialNumb  er ":" 738d0af9 - 6ca3 - 46dd - a973 - bab70da4bf
 74 ",
   " Status ":" STARTING "
  }]
 },
 " RequestId ":" 2E429517 - 6A50 - 4082 - 9A30 - 47755CE9F9  A5 "
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Project   does   not   exist  [ FP - 3535FE0BE5
 224A4 ]",
 " requestId ":" 93F6F3CF - B2AE - 411A - 948F - 0F7293058C  F5 ",
 " successRes  ponse ": false
```

```
}
```

Error codes

View error codes.

5.30 ListFlowClusterHost

You can call this operation to view the list of the cluster hosts that can submit jobs.

Request parameters

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-hangzhou	The ID of the region.
ClusterId	String	Yes	C-F32FB31D82954C64	The ID of the cluster.
ProjectId	String	Yes	FP-3535FE0BE5224A47	The ID of the project.

Response parameters

Name	Type	Example	Description
RequestId	String	2E429517-6A50-4082-9A30-47755CE9F9A5	The ID of the request.
HostList			The list of the hosts.
HostId	String	119555	The ID of the host.
HostName	String	emr-header-1.cluster-500159692	The name of the host.
PublicIp	String	192.0.0.1	The public IP address.
PrivateIp	String	127.0.0.1	The private IP address.
Role	String	CORE	The role of the node.
InstanceType	String	ecs.n4.xlarge	The instance type.
Cpu	Integer	4	The number of vCPUs.

Name	Type	Example	Description
Memory	Integer	8	The size of the memory. Unit: gigabytes.
Status	String	STARTING	The status of the host.
Type	String	VM	The type of the host .
HostInstanceId	String	i-bp1agi4417 dx08sig82j	The ID of the host instance.
SerialNumber	String	6dc097b0-5e92-4e08 -a49e-37c26c78cf9f	The serial number of the host instance .

Examples

- Sample requests

```
/?  ClusterId = C - F32FB31D82  954C64
& ProjectId = FP - 3535FE0BE5  224A47
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " HostList ":{
  " Host ":[{
   " Cpu ": 4 ,
   " HostId ":" 119555 ",
   " HostInstan  ceId ":" i - bp1agi4417  dx08sig82j ",
   " HostName ":" emr - header - 1 . cluster - 500159692 ",
   " Memory ": 8 ,
   " PrivateIp ":" 192 . 168 . 100 . 251 ",
   " PublicIp ":" 47 . 99 . 183 . 218 ",
   " Role ":" MASTER ",
   " SerialNumb  er ":" 738d0af9 - 6ca3 - 46dd - a973 - bab70da4bf
 74 ",
   " Status ":" STARTING "
  }]
 },
 " RequestId ":" 2E429517 - 6A50 - 4082 - 9A30 - 47755CE9F9  A5 "
```

```
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Project   does   not   exist  [ FP - 3535FE0BE5
 224A4 ]",
 " requestId ":" 93F6F3CF - B2AE - 411A - 948F - 0F7293058C  F5 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.31 ListFlowInstance

You can call this operation to view a list of the workflow instances.

Request parameters

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-hangzhou	Region ID
ProjectId	String	Yes	FP-3535FE0BE5224A47	The ID of the project.
FlowId	String	No	F-1B4018ADE9179EE1	The ID of the workflow.
FlowName	String	No	my_flow	The name of the workflow.
Id	String	No	FI-7CAF9709CD328EBE	The ID of the workflow instance.
PageNumber	Integer	No	1	The page number to request.
PageSize	Integer	No	20	The number of records to show on each page.
StatusList.N	RepeatList	No	RUNNING	The list of status.

Response parameters

Name	Type	Example	Description
RequestId	String	EDF99BA3-F7AF-49B2-ABA1-36430A31F482	The ID of the request.
PageNumber	Integer	1	The page number to request.
PageSize	Integer	20	The number of records to show on each page.
Total	Integer	42	The total number of records.
FlowInstances			The list of workflow instances.
Id	String	FI-7CAF9709CD328EBE	The ID of the workflow instance.
GmtCreate	Long	1540796248000	The creation time.
GmtModified	Long	1540796248000	The modification time.
FlowId	String	F-35683D0E45734E34	The ID of the workflow.
FlowName	String	flow-hive	The name of the workflow.
ProjectId	String	FP-7A1018ADE9179EE1	The ID of the project.
Status	String	SUCCEEDED	The status of the workflow instance. Valid values: PREP, RUNNING, SUCCEEDED, FAILED, KILLED, and SUSPENDED.
ClusterId	String	C-F32FB31D82954C64	The ID of the cluster.
StartTime	Long	1540796236000	The time when the workflow instance starts running.

Name	Type	Example	Description
EndTime	Long	1540796248000	The time when the workflow instance ends running.
Duration	Long	12,000	The running duration. Unit: milliseconds.

Examples

- Sample requests

```
/?  Action = ListFlowIn  stance
& ProjectId = FP - 7A1018ADE9  179EE1
& RegionId = cn - hangzhou
& FlowId = F - 1B4018ADE9  179EE1
& FlowName = my_flow
& Id = FI - 7CAF9709CD  328EBE
& PageNumber = 1
& PageSize = 20
& StatusList .  1 = RUNNING
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " FlowInstan  ces ":{
  " FlowInstan  ce ":[
   {
    " ClusterId ":" C - A6C9F4F1E9  EC88D9 ",
    " Duration ": 32000 ,
    " EndTime ": 1542963033  000 ,
    " FlowId ":" F - 9C8D2BEC4D  3803BC ",
    " FlowName ":" success + fail ",
    " GmtCreate ": 1542963000  000 ,
    " GmtModifie  d ": 1542963033  000 ,
    " Id ":" FI - 03F019530C  B8D327 ",
    " Owner ":" 1250460021  754461 ",
    " ProjectId ":" FP - 17AB3389E1  AD9A34 ",
    " StartTime ": 1542963001  000 ,
    " Status ":" FAILED "
   },
   {
    " ClusterId ":" C - A6C9F4F1E9  EC88D9 ",
    " Duration ": 15000 ,
    " EndTime ": 1542963015  000 ,
    " FlowId ":" F - FECA99A4AE  794199 ",
    " FlowName ":" success ",
    " GmtCreate ": 1542963000  000 ,
    " GmtModifie  d ": 1542963015  000 ,
    " Id ":" FI - 60B9DBFA5A  D2432B ",
    " Owner ":" 2053890389  83463961 ",
    " ProjectId ":" FP - 17AB3389E1  AD9A34 ",
    " StartTime ": 1542963000  000 ,
```

```
    " Status ":" SUCCEEDED "
   }
  ]
 },
 " PageNumber ": 1 ,
 " PageSize ": 2 ,
 " RequestId ":" 780BB15A - 9038 - 4330 - BE6C - 0A47FE5A1B  BF ",
 " Total ": 50
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Project   does   not   exist  [ FP - 117AB3389E
 1AD9A34 ]",
 " requestId ":" 63D6A3AD - 8060 - 4E31 - A926 - 36F2A23888  C0 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.32 ListFlowJob

You can call this operation to view a list of jobs.

Request parameters

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-hangzhou	The ID of the region.
ProjectId	String	Yes	FP-257A173659 F59685	The ID of the project.
Id	String	No	FJ-BCCAE48B90 CCB37B	The ID of the job.
Name	String	No	my_shell_job	The name of the job.
PageNumber	Integer	No	1	The page number to request.
PageSize	Integer	No	20	The number of records to show on each page.

Parameter	Type	Required	Example	Description
Type	String	No	SHELL	The type of the job. Valid values : MR, SPARK , HIVE_SQL , HIVE, PIG , SQOOP, SPARK_SQL, SPARK_STREAMING, and SHELL.

Response parameters

Name	Type	Example	Description
RequestId	String	7D2B1B2E-8D89-49C1-8D31-097C83879D20	The ID of the request.
PageNumber	Integer	1	The page number to request.
PageSize	Integer	20	The number of records to show on each page.
Total	Integer	42	The total number of records.
JobList			The list of jobs.
Id	String	FJ-BCCAE48B90CCB37B	The ID of the job.
GmtCreate	Long	1540796248000	The creation time.
GmtModified	Long	1540796248000	The modification time.
Name	String	my_shell_job	The name of the job .

Name	Type	Example	Description
Type	String	SHELL	The type of the job . Valid values: MR, SPARK, HIVE_SQL, HIVE, PIG, SQOOP , SPARK_SQL, SPARK_STRE AMING, and SHELL .
Description	String	"This is a job description."	The description
FailAct	String	STOP	The action to take after failure. Valid values: STOP and CONTINUE.
MaxRetry	Integer	5	The maximum number of retries.
RetryInterval	Long	200	The interval between retries. Valid values: 0 to 300. Unit: seconds.
Params	String	ls -l	The content of the job.
ParamConf	String	{"date":"${yyyy-MM -dd}"}	The configurations of the parameters.
EnvConf	String	{"key":"value"}	The configurations of the environment variables.
RunConf	String	{"priority":1," userName":"hadoop ","memory":2048," cores":1}	The run configurat ions.

Name	Type	Example	Description
MonitorConf	String	{"inputs":[{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic","consumer.group":"kafka_consumer_group"}],"outputs":[{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic"}]}	The monitoring configurations. Only jobs of the SPARK_STREAMING type are supported.
CategoryId	String	FC-5BD9575E34623940	The ID of the category.
mode	String	YARN	The mode of the model. Valid values : YARN and LOCAL.
ResourceList			The list of the resources.
Path	String	oss://path/demo.jar	The path of the resource.
Alias	String	demo.jar	The alias of the resource.

Examples

- Sample requests

```
/?  Action = ListFlowJo  b
& ProjectId = FP - 257A173659  F59685
& RegionId = cn - hangzhou
& Id = FJ - BCCAE48B90  CCB37B
& Name = my_shell_j  ob
& PageNumber = 1
& PageSize = 20
& Type = SHELL
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " JobList ":{
  " Job ":[
```

```
    {
     " Adhoc ": false ,
     " CategoryId ":" FC - BF013F34DE  395AFC ",
     " Descriptio  n ":" success ",
     " FailAct ":" STOP ",
     " GmtCreate ": 1542957478  000 ,
     " GmtModifie  d ": 1542957519  000 ,
     " Id ":" FJ - 31BD66C7BC  502815 ",
     " MaxRetry ": 0 ,
     " Name ":" success ",
     " Params ":" sleep   10 ;\ nexit   0 ;",
     " ResourceLi  st ":{
      " Resource ":[]
     },
     " RetryInter  val ": 15 ,
     " Type ":" SHELL "
    },
    {
     " Adhoc ": false ,
     " CategoryId ":" FC - 54C10B1194  42DC0C ",
     " Descriptio  n ":" fail ",
     " FailAct ":" STOP ",
     " GmtCreate ": 1542957560  000 ,
     " GmtModifie  d ": 1542958715  000 ,
     " Id ":" FJ - A200F16108  CA9047 ",
     " MaxRetry ": 0 ,
     " Name ":" fail ",
     " Params ":" sleep   10 ;\ nexit   1 ;",
     " ResourceLi  st ":{
      " Resource ":[]
     },
     " RetryInter  val ": 15 ,
     " Type ":" SHELL "
    }
   ]
  },
  " PageNumber ": 1 ,
  " PageSize ": 2 ,
  " RequestId ":" B83F5335 - C8BF - 47E9 - 9DE2 - AC1C5E1B3D  39 ",
  " Total ": 6
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Project   does   not   exist  [ FP - 17AB3389E1
 AD9A3 ]",
 " requestId ":" 73DE8742 - 4D15 - 4C95 - 81EA - 3F5D1C7738  BC ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.33 ListFlowJobHistory

You can call this operation to view a list of job instances.

Request parameters

Parameter	Type	Required	Example	Description
Id	String	Yes	FJ-BCCAE48B90CCB37B	The ID of the job.
ProjectId	String	Yes	FP-257A173659F59685	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.
PageNumber	Integer	No	1	The page number to request.
PageSize	Integer	No	20	The number of records to show on each page.

Response parameters

Name	Type	Example	Description
RequestId	String	F5540D8F-06E8-4E3C-B47A-D75CED72A795	The ID of the request.
PageNumber	Integer	1	The page number to request.
PageSize	Integer	20	The number of records to show on each page.
Total	Integer	12	The total number of records.
NodeInstances			The list of job instances.
Id	String	FNI-9D14A7CCF2687B84	The ID of the job instance.
GmtCreate	Long	1540796248000	The creation time.

Name	Type	Example	Description
GmtModified	Long	1540796248000	The modification name.
Type	String	JOB	The type of the node. Valid values : JOB, CLUSTER, START, and END.
Status	String	OK	The status of the job instance. Valid values: PREP , SUBMITTING , RUNNING, DONE, OK, FAILED, KILLED, KILL_FAILED, and START_RETRY.
JobId	String	FJ-A23BD131A8 62F184	The ID of the job.
JobName	String	myJob	The name of the job .
JobType	String	HIVE_SQL	The type of the job.
JobParams	String	ls -l	The content of the job.
FailAct	String	STOP	The action to take after failure. Valid values: STOP and CONTINUE.
MaxRetry	Integer	0	The maximum number of retries.
RetryInterval	Long	200	The number of retries.
NodeName	String	[DO NOT TRANSLATE]	The name of the node.
ClusterId	String	C-A6C9F4F1E9 EC88D9	The ID of the cluster.

Name	Type	Example	Description
HostName	String	emr-header-1.cluster-12345	The hostname of the host on which the workflow node instance runs. Only master nodes and gateways are supported. You can use the hostname command to view the hostname of the host that you want for running the workflow node instance.
ProjectId	String	FP-3535FE0BE5224A47	The ID of the project.
StartTime	Long	1540796237000	The time when the job instance starts running.
EndTime	Long	1540796248000	The time when the job instance ends running.
pending	Boolean	false	Indicates whether the job instance is terminated.
Retries	Integer	0	The number of retries.
ExternalId	String	application_1541559535023_34027	The application ID of the launcher.
ExternalStatus	String	SUCCESS	The external status. Valid values: SUBMITTED, RUNNING, SUCCESS, FAIL, KILL_FAIL, and KILL_SUCCESS.

Name	Type	Example	Description
ExternalInfo	String	empty	The external information. For example, the diagnostic information of a job running error.
ParamConf	String	{"date":"${yyyy-MM-dd}"}	The configurations of the parameters.
EnvConf	String	{"key":"value"}	The configurations of the environment variables.
RunConf	String	{"priority":1,"userName":"hadoop","memory":2048,"cores":1}	The run configurations. priority: The priority to run the instance. userName: The Linux user that submits the instance. memory: The size of the allocated memory for running the instance. Unit: megabytes. cores: The number of allocated vCPUs for running the instance.

Examples

- Sample requests

```
/?  Id = FJ - BCCAE48B90  CCB37B
& ProjectId = FP - 257A173659  F59685
& RegionId = cn - hangzhou
& PageNumber = 1
& PageSize = 20
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " NodeInstan  ces ":{
```

```
  " NodeInstan  ce ":[{
   " ClusterId ":" C - A6C9F4F1E9  EC88D9 ",
   " EndTime ": 1542957514  000 ,
   " ExternalId ":" applicatio  n_15429556  85866_0003 ",
   " ExternalIn  fo ":"",
   " ExternalSt  atus ":" SUCCESS ",
   " FailAct ":" STOP ",
   " GmtCreate ": 1542957499  000 ,
   " GmtModifie  d ": 1542957514  000 ,
   " HostName ":" emr - header - 2 . cluster - 500160670 ",
   " Id ":" FJI - F4FC53D720  7E4BEF ",
   " JobId ":" FJ - 31BD66C7BC  502815 ",
   " JobName ":" success ",
   " JobType ":" SHELL ",
   " MaxRetry ": 0 ,
   " ParamConf ":"{\" cyctime \":\" 2018 - 11 - 23   15 : 18 : 19
 \"}",
   " ProjectId ":" FP - 17AB3389E1  AD9A34 ",
   " Retries ": 0 ,
   " RetryInter  val ": 0 ,
   " StartTime ": 1542957499  000 ,
   " Status ":" OK ",
   " pending ": false
  }]
 },
 " PageNumber ": 1 ,
 " PageSize ": 10 ,
 " RequestId ":" BCF52B64 - 007F - 4883 - BAEA - 0499106D07  C2 ",
 " Total ": 1
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Project   does   not   exist  [ FP - 3535FE0BE5
 224A4 ]",
 " requestId ":" 83B256D4 - 4E95 - 454B - AD08 - 799DF31D55  56 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.34 ListFlowNodeInstance

You can call this operation to query workflow node instances.

Debugging

Alibaba Cloud provides OpenAPI Explorer to simplify API usage. You can use OpenAPI Explorer to search for APIs, call APIs, and dynamically generate SDK example code.

Request parameters

Parameter	Type	Required	Example	Description
`Action`	String	Yes	ListFlowNodeInstance	The operation that you want to perform. Set this parameter to ListFlowNodeInstance.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region.
`OrderBy`	String	No	start_time	The sort field.
`OrderType`	String	No	desc	The sort direction.
`PageNumber`	Integer	No	1	The number of the page to return.
`PageSize`	Integer	No	20	The number of entries to return on each page.
`ProjectId`	String	No	FP-257A173659F5****	The ID of the project.
`StartTime`	Long	No	1540796248000	The beginning of the time range where workflow node instances are queried.
`StatusList.N`	RepeatList	No	FAILED	The status list of workflow node instances.

Response parameters

Parameter	Type	Example	Description
FlowNodeInstances			The list of workflow node instances.
ClusterId	String	C-A6C9F4F1E9E****	The ID of the cluster.
Duration	Long	200	The running duration, in milliseconds.

Parameter	Type	Example	Description
EndTime	Long	1540796248000	The time when the workflow node instance stopped.
ExternalChildIds	String	application_1541559535023_34028	The application list of the tasks of the job.
ExternalId	String	application_1541559535023_34027	The application ID of the launcher.
ExternalInfo	String	empty	The external information, such as error diagnosis information of job running.
ExternalStatus	String	SUCCESS	The external status. Valid values: · SUBMITTED: submitted · RUNNING: running · SUCCESS: execution succeeded · FAIL: execution failed · KILL_FAIL: termination failed · KILL_SUCCESS: termination succeeded
ExternalSubId	String	container_1541559535023_34027_01_000001	The container ID of the launcher.
FailAct	String	STOP	The action to take when the workflow node instance failed. Valid values: · STOP: Terminate the workflow. · CONTINUE: Skip the failed workflow node instance.
FlowId	String	F-35683D0E45734E34	The ID of the workflow.
FlowInstanceId	String	FI-7CAF9709CD328EBE	The ID of the workflow instance.

Parameter	Type	Example	Description
GmtCreate	Long	1540796236000	The time when the workflow node instance was created.
GmtModified	Long	1540796247000	The time when the workflow node instance was modified.
HostName	String	emr-header-1.cluster-12345	The name of the host where the workflow node instance is running. The host can be a master node or gateway node. The format of the hostname is emr-header-1.cluster-12345. You can log on to the host and run the hostname command to check the hostname.
Id	String	FNI-9D14A7CCF2687B84	The ID of the workflow node instance.
JobId	String	FJ-A23BD131A862F184	The ID of the job.
JobName	String	myJob	The name of the job.
JobParams	String	ls -l	The content of the job.
JobType	String	HIVE_SQL	The type of the job.
MaxRetry	String	0	The maximum number of times the job can be retried.
NodeName	String	node	The name of the node.
Pending	Boolean	false	Indicates whether the workflow node instance was completed.
ProjectId	String	FP-7A1018ADE917****	The ID of the project.

Parameter	Type	Example	Description
Retries	Integer	0	The consecutive number of times the job has been retried.
RetryInterval	String	200	The retry interval, in milliseconds.
StartTime	Long	1540796237000	The time when the job started.
Status	String	OK	The status of the job. Valid values: PREP (waiting for running), SUBMITTING (being submitted), RUNNING (running), DONE (completed), OK (execution succeeded), FAILED (execution failed), KILLED (terminated), KILL_FAILED (termination failed), and START_RETRY (retry started).
Type	String	JOB	The type of the node.
PageNumber	Integer	1	The number of the page returned.
PageSize	Integer	20	The number of entries returned on each page.
RequestId	String	83B256D4-4E95-454B-AD08-799DF31D5556	The ID of the request.
Total	Integer	12	The total number of instances.

Examples

Sample request

```
 http ( s )://[ Endpoint ]/?  Action = ListFlowNo  deInstance
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

Sample success response

`XML` format

```
< ListFlowNo  deInstance  Response >
  < PageSize > 10 </ PageSize >
   < RequestId > BCF52B64 - 007F - 4883 - BAEA - 0499106D07  C2 </
 RequestId >
   < PageNumber > 1 </ PageNumber >
   < Total > 1 </ Total >
   < NodeInstan  ces >
      < NodeInstan  ce >
         < FailAct > STOP </ FailAct >
         < Status > OK </ Status >
         < EndTime > 1542957514  000 </ EndTime >
         < ClusterId > C - A6C9F4F1E9  EC ****</ ClusterId >
         < ExternalId > applicatio  n_15429556  85866_0003 </
 ExternalId >
         < pending > false </ pending >
         < JobName > success </ JobName >
         < GmtModifie  d > 1542957514  000 </ GmtModifie  d >
         < StartTime > 1542957499  000 </ StartTime >
         < ProjectId > FP - 17AB3389E1  AD9A34 </ ProjectId >
         < MaxRetry > 0 </ MaxRetry >
         < ParamConf >{" cyctime ":" 2018 - 11 - 23   15 : 18 : 19
 "}</ ParamConf >
         < ExternalSt  atus > SUCCESS </ ExternalSt  atus >
         < GmtCreate > 1542957499  000 </ GmtCreate >
         < JobType > SHELL </ JobType >
         < ExternalIn  fo ></ ExternalIn  fo >
         < Retries > 0 </ Retries >
         < RetryInter  val > 0 </ RetryInter  val >
         < Id > FJI - F4FC53D720  7E4BEF </ Id >
         < HostName > emr - header - 2 . cluster - 500160670 </
 HostName >
         < JobId > FJ - 31BD66C7BC  502815 </ JobId >
      </ NodeInstan  ce >
   </ NodeInstan  ces >
 </ ListFlowNo  deInstance  Response >
```

`JSON` format

```
{
 " PageNumber ": 1 ,
 " PageSize ": 10 ,
 " NodeInstan  ces ":{
  " NodeInstan  ce ":[
   {
    " FailAct ":" STOP ",
    " Retries ": 0 ,
    " ExternalId ":" applicatio  n_15429556  85866_0003 ",
    " JobName ":" success ",
    " GmtCreate ": 1542957499  000 ,
    " GmtModifie  d ": 1542957514  000 ,
    " HostName ":" emr - header - 2 . cluster - 500160670 ",
    " JobType ":" SHELL ",
    " Status ":" OK ",
    " MaxRetry ": 0 ,
    " RetryInter  val ": 0 ,
    " ClusterId ":" C - A6C9F4F1E9  EC ****",
    " JobId ":" FJ - 31BD66C7BC  502815 ",
    " pending ": false ,
    " ParamConf ":"{\" cyctime \":\" 2018 - 11 - 23   15 : 18 : 19
 \"}",
```

```
    " Id ":" FJI - F4FC53D720  7E4BEF ",
    " EndTime ": 1542957514  000 ,
    " ExternalIn  fo ":"",
    " StartTime ": 1542957499  000 ,
    " ExternalSt  atus ":" SUCCESS ",
    " ProjectId ":" FP - 17AB3389E1  AD9A34 "
   }
  ]
 },
 " RequestId ":" BCF52B64 - 007F - 4883 - BAEA - 0499106D07  C2 ",
 " Total ": 1
}
```

Error codes

For more information about error codes, see API Error Center.

5.35 ListFlowNodeInstanceContainerStatus

You can call this operation to view the container status of a node instance.

Request parameters

Parameter	Type	Required	Example	Description
NodeInstanceId	String	Yes	FNI-FE4BD156E939CF1F	The ID of the node instance.
ProjectId	String	Yes	7A1018ADE9179EE1	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.
PageNumber	Integer	No	1	The page number to request.
PageSize	Integer	No	20	The number of records to show on each page.

Response parameters

Name	Type	Example	Description
RequestId	String	E82E504E-F1A8-4D05-AA8F-360BD9DF423A	The ID of the request.
PageNumber	Integer	1	The page number to request.

Name	Type	Example	Description
PageSize	Integer	20	The number of records to show on each page.
Total	Integer	1	The total number of records.
ContainerStatusList			The list of container status.
ApplicationId	String	application_1542333181298_0016	Application ID
ContainerId	String	container_1542333181298_0016_01_000015	Container ID
HostName	String	192.168.128.53	The IP address of the host.
Status	String	KILLED	The status of the container.

Examples

- Sample requests

```
/?  Action = ListFlowNo  deInstance  ContainerS  tatus
& NodeInstan  ceId = FNI - FE4BD156E9  39CF1F
& ProjectId = 7A1018ADE9  179EE1
& RegionId = cn - hangzhou
& PageNumber = 1
& PageSize = 20
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " ContainerS  tatusList ":{
  " ContainerS  tatus ":[{
   " Applicatio  nId ":" applicatio  n_15423331  81298_0016 ",
   " ContainerI  d ":" container_  1542333181  298_0016_0  1_000015
 ",
   " HostName ":" 192 . 168 . 128 . 53 ",
   " Status ":" KILLED "
  }]
 },
 " PageNumber ": 1 ,
```

```
 " PageSize ": 200 ,
 " RequestId ":" E82E504E - F1A8 - 4D05 - AA8F - 360BD9DF42  3A ",
 " Total ": 1
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" flow   node   instance   does   not   exist  [ FNI -
 AFF866DB3A  0BB0133 ]",
 " requestId ":" B759F5A4 - 1ABF - 42F0 - 9496 - 43286048D4  BE ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.36 ListFlowNodeSqlResult

You can call this operation to view the SQL query results of a node instance.

Request parameters

Parameter	Type	Required	Example	Description
NodeInstanceId	String	Yes	FE4BD156E939CF1F	The ID of the node instance.
ProjectId	String	Yes	FP-7A1018ADE9179EE1	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.
Length	Integer	No	100	The number of results to show.
Offset	Integer	No	0	The starting point to return results.
SqlIndex	Integer	No	0	The specified result that you want to view.

Response parameters

Name	Type	Example	Description
RequestId	String	90F14544-832D-4D81-8F8C-8F8547AE5B9D	The ID of the request.
End	Boolean	true	Indicates whether all results are shown.
RowList			The list of rows.
RowIndex	Integer	0	The number of the row.
RowItemList	String	{ "rowItem": ["1", "1", "1"] }	The content of the row.
HeaderList	String	{ "Header": ["rankings.pageurl", "rankings.pagerank", "rankings.avgduration"] }	The header row.

Examples

- Sample requests

```
/?  Action = ListFlowNo  deSqlResul  t
& NodeInstan  ceId = FE4BD156E9  39CF1F
& ProjectId = FP - 7A1018ADE9  179EE1
& RegionId = cn - hangzhou
& Length = 100
& Offset = 0
& SqlIndex = 0
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " End ": true ,
 " HeaderList ":{
  " Header ":[
   " rankings . pageurl ",
   " rankings . pagerank ",
   " rankings . avgduratio  n "
  ]
 },
 " RequestId ":" 90F14544 - 832D - 4D81 - 8F8C - 8F8547AE5B  9D ",
 " RowList ":{
  " Row ":[
```

```
    {
     " RowIndex ": 0 ,
     " RowItemLis  t ":{
      " rowItem ":[
       " 1 ",
       " 1 ",
       " 1 "
      ]
     }
    },
    {
     " RowIndex ": 1 ,
     " RowItemLis  t ":{
      " rowItem ":[
       " 1 ",
       " 1 ",
       " 1 "
      ]
     }
    }
   ]
  }
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Job   instance   does   not   exist  [ FJI -
 38BA0B2424  5155A ]",
 " requestId ":" 67C4D5F0 - E8E1 - 408C - 9BD0 - 4268A721EC  3A ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.37 ListFlowProject

You can call this operation to view a list of projects.

Request parameters

Parameter	Type	Required	Example	Description
NodeInstanceId	String	Yes	FE4BD156E939CF1F	The ID of the node instance.
Name	String	No	my_project	The name of the project.

Parameter	Type	Required	Example	Description
PageNumber	Integer	No	1	The page number to request.
PageSize	Integer	No	20	The number of records to show on each page.
ProjectId	String	No	FP-7A1018ADE9179EE1	Project ID

Response parameters

Field	Type	Example	Description
RequestId	String	83B256D4-4E95-454B-AD08-799DF31D5556	The ID of the request.
PageNumber	Integer	1	The page number to request.
PageSize	Integer	20	The number of records to show on each page.
Total	Integer	1	The total number of records.
Projects			The list of projects.
Id	String	7A1018ADE9179EE1	The ID of the project.
GmtCreate	Long	1540796236000	The creation time.
GmtModified	Long	1540796236000	The modification time.
UserId	String	123456	The ID of the Alibaba Cloud account.
Name	String	my_project	The name of the project.
Description	String	my project description	The description of the project.

Examples

- **Sample requests**

```
/?  Action = ListFlowPr  oject
& RegionId = cn - hangzhou
& Name = my_project
& PageNumber = 1
& PageSize = 20
& ProjectId = FP - 7A1018ADE9  179EE1
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
 " PageNumber ": 1 ,
 " PageSize ": 1 ,
 " projects ": [
  " Project ":[{
   " Descriptio  n ":" gh - alert_enha  nce_11 ",
   " GmtCreate ": 1542957424  000 ,
   " GmtModifie  d ": 1542964674  000 ,
   " Id ":" FP - 17AB3389E1  AD9A34 ",
   " Name ":" gh - alert_enha  nce ",
   " UserId ":" 1250460021  754461 "
  }]
 },
 " RequestId ":" 3177EF07 - 34F5 - 48D0 - 9BFD - 3C33E70EB2  60 ",
 " Total ": 34
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Invalid   Param [ pageSize   should   less   than
 250 ]",
 " requestId ":" 5E866FC1 - 7BBD - 4965 - AC6B - 4689A121FC  88 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.38 ListFlowProjectClusterSetting

You can call this operation to view the cluster settings of a project.

Request parameters

Name	Type	Required	Example	Description
ProjectId	String	Yes	FP-ED2F3E844FE383AA	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.
PageNumber	Integer	No	1	The page number to request.
PageSize	Integer	No	20	The number of records to show on each page.

Response parameters

Name	Type	Example	Description
RequestId	String	93F6F3CF-B2AE-411A-948F-0F7293058CF5	The ID of the request.
PageNumber	Integer	1	The page number to request.
PageSize	Integer	20	The number of records to show on each page.
Total	Integer	1	The total number of records.
ClusterSettings			The settings of the cluster.
GmtCreate	Long	1540796236000	The creation time.
GmtModified	Long	1540796236000	The modification time.
ProjectId	String	FP-3535FE0BE5224A47	The ID of the project.

Name	Type	Example	Description
ClusterId	String	C-DCEE11B49C 8F42B4	The ID of the cluster.
ClusterName	String	my_cluster	The name of the cluster.
DefaultUser	String	hadoop	The default user to submit jobs.
DefaultQueue	String	default	The default queue for job submission.
UserList	String	"User": ["hadoop"]	The whitelist of Linux users for job submission.
QueueList	String	"Queue": ["default"]	The whitelist of queues for job submission.
HostList	String	"Host":["emr-header-1.cluster-500159692"	The whitelist of hosts for job submission.

Examples

- Sample requests

```
/?  Action = ListFlowPr  ojectClust  erSetting
& ProjectId = FP - ED2F3E844F  E383AA
& RegionId = cn - hangzhou
& PageNumber = 1
& PageSize = 20
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " ClusterSet  tings ":{
  " ClusterSet  ting ":[{
   " ClusterId ":" C - F32FB31D82  954C64 ",
   " ClusterNam  e ":" mingbo - v199v1 ",
   " DefaultUse  r ":" hadoop ",
   " GmtCreate ": 1540811745  000 ,
   " GmtModifie  d ": 1540811745  000 ,
   " HostList ":{
    " Host ":[]
   },
   " ProjectId ":" FP - F958DB9A2B  AE31AB ",
   " QueueList ":{
    " Queue ":[]
```

```
    },
    " UserList ":{
     " User ":[]
    }
   }]
  },
  " PageNumber ": 1 ,
  " PageSize ": 10 ,
  " RequestId ":" 3DB7F949 - B592 - 49AF - 9ED9 - 9D5CF8DA5A  FE ",
  " Total ": 1
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Invalid   Param [ pageSize   should   less   than
 500 ]",
 " requestId ":" 3793FD17 - FD93 - 4850 - 90DD - E649B76267  EE ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.39 ListFlowProjectUser

You can call this operation to view the users of a project.

Request parameters

Name	Type	Required	Example	Description
ProjectId	String	Yes	FP-3535FE0BE5224A47	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.
PageNumber	Integer	No	1	The page number to request.
PageSize	Integer	No	20	The number of records to show on each page.

Response parameters

Name	Type	Example	Description
RequestId	String	80F270E8-27BD-4F24-BB2A-CD3FBCC450DA	The ID of the request.
PageNumber	Integer	1	The page number to request.
PageSize	Integer	20	The number of records to show on each page.
Total	Integer	1	The total number of records.
Users			The list of users.
GmtCreate	Long	1540796236000	The creation time.
GmtModified	Long	1540796236000	The modification time.
ProjectId	String	FP-3535FE0BE5224A47	The ID of the project.
OwnerId	String	123456	The ID of the Alibaba Cloud account.
UserName	String	testUser	The name of the RAM user.

Examples

- Sample requests

```
/?  Action = ListFlowPr  ojectUser
& ProjectId = FP - 3535FE0BE5  224A47
& RegionId = cn - hangzhou
& PageNumber = 1
& PageSize = 20
&< Common   request   parameters >
[ DO   NOT   TRANSLATE ]
```

- Successful response examples

  JSON format

```
{
 " PageNumber ": 1 ,
 " PageSize ": 10 ,
 " RequestId ":" E2253FD1 - 33E7 - 4299 - B58F - 02BB65338E  01 ",
```

```
" Total ": 1 ,
" Users ":{
 " User ":[{
  " OwnerId ":" 1250460021  754461 ",
  " ProjectId ":" FP - E3F1523F8F  C1D2E6 ",
  " UserName ":" mingbo - flow "
 }]
}
}
```

- Error response examples

  JSON format

```
{
" code ":" FLOW_API_F  AILED ",
" message ":" Project   does   not   exist  [ FP - E3F1523F8F
C1D2E ]",
" requestId ":" D6EFD75D - 4C9A - 4729 - B4CD - E89C1D9719  71 ",
" successRes  ponse ": false
}
```

Error codes

View error codes.

5.40 ModifyFlow

You can call this operation to modify a workflow.

Debugging

Alibaba Cloud provides OpenAPI Explorer to simplify API usage. You can use OpenAPI Explorer to search for APIs, call APIs, and dynamically generate SDK example code.

Request parameters

Parameter	Type	Required	Example	Description
`Action`	String	Yes	ModifyFlow	The operation that you want to perform. Set this parameter to ModifyFlow.
`Id`	String	Yes	F-7A39731FE719****	The ID of the workflow.
`ProjectId`	String	Yes	FP-3535FE0BE522****	The ID of the project.

Parameter	Type	Required	Example	Description
`RegionId`	String	Yes	cn-hangzhou	The ID of the region.

Parameter	Type	Required	Example	Description
`AlertConf`	String	No	{"items":[{"enable":true,"eventId":"EMR-210401001","alertUserGroupIdList":["AUG-b79bb29bb6e14ddd89674a242623851b"],"alertDingDingGroupList":["ADG-af1f9689d6194e2dbd89927d5c515172"]},{"enable":true,"eventId":"EMR-110401015","alertUserGroupIdList":["AUG-b79bb29bb6e14ddd89674a242623851b"],"alertDingDingGroupList":["ADG-af1f9689d6194e2dbd89927d5c515172"]},{"enable":true,"eventId":"EMR-110401002","alertUserGroupIdList":["AUG-b79bb29bb6e14ddd89674a242623851b"],"alertDingDingGroupList":["ADG-af1f9689d6194e2dbd89	The alert configuration. Currently, the eventId parameter has the following values: · EMR-210401001: indicates the alert sent when the workflow failed. · EMR-110401002: indicates the notification sent when the workflow was successful. · EMR-110401015: indicates the alert sent when the workflow node failed.

Parameter	Type	Required	Example	Description
`AlertDingDingGroupBizId`	String	No	Deprecated	The deprecated field.
`AlertUserGroupBizId`	String	No	Deprecated	The deprecated field.
`Application`	String	No	{"nodeDefMap":{":start:":{"name":":start:","type":":start:","transitions":["cluster"]},"cluster":{"id":"CT-0C74281682CF03B4","name":"cluster","type":":Cluster:","transitions":["job1"]},"job1":{"jobId":"FJ-242AB240DBAF4195","name":"job1","type":":action:","transitions":["end"]},"end":{"name":"end","type":":end:"}}}	The construction information, represented by a nodeDefMap, of the workflow. The nodeDefMap consists of a group of nodes. The type and transitions parameters in a node are described as follows: · type: indicates the type of the node. Valid values: :start: (indicating a start node), :Cluster: (indicating a node for building an on-demand cluster), :action: (indicating an action node), and :end: (indicating an end node). · transitions: indicates the descendant node of the node. Separate multiple nodes with commas (,).
`ClusterId`	String	No	C-F32FB31D8295****	The ID of the cluster.

Parameter	Type	Required	Example	Description
`CreateCluster`	Boolean	No	false	Specifies whether to use a cluster template to create the cluster. If this parameter is set to true, a cluster template is used to create the cluster. In this case, set the ClusterId parameter to the ID (CT-xxx) of the cluster template. If this parameter is set to false, set the ClusterId parameter to the ID (C-xxx) of the existing cluster.
`CronExpr`	String	No	0 0 0-23/1 * * ?	The Cron expression used for configuring periodic scheduling. For more information, see Cron expression.
`Description`	String	No	my flow description	The description of the workflow. The description can be up to 156 characters in length.
`EndSchedule`	Long	No	1542783967503	The end time of the schedule. The value is a timestamp of the Long type. You can run the System.currentTimeMillis() method to obtain the time.

Parameter	Type	Required	Example	Description
`HostName`	String	No	emr-header-1.cluster-12345	The name of the host where the workflow is running. The host can be a master node or gateway node. The format of the hostname is emr-header-1.cluster-12345. You can log on to the host and run the hostname command to check the hostname.
`Name`	String	No	my_flow	The name of the workflow . The name can be up to 64 characters in length and must be unique in a project.
`ParentCategory`	String	No	FC-FC396F988E07C06F	The ID of the parent directory. If this parameter is left empty, the root directory is used.
`ParentFlowList`	String	No	F-62ECFC6E1BF6EAD2,F-1E6528634E67B615,F-7E0A84332E9D9A89	The ID list of ancestor workflows on which the workflow depends. Separate multiple IDs with commas (,).
`Periodic`	Boolean	No	true	Specifies whether to enable periodic scheduling.

Parameter	Type	Required	Example	Description
`StartSchedule`	Long	No	1542783867503	The start time of the schedule. The value is a timestamp of the Long type. You can run the System.currentTimeMillis() method to obtain the time. This parameter must meet the following requirements: · The value of this parameter must be smaller than that of the EndSchedule parameter. · This parameter is required if the CronExpr parameter is not left empty.
`Status`	String	No	UNDER_SCHEDULE	The status of the workflow.

Response parameters

Parameter	Type	Example	Description
Data	Boolean	true	The modification result. The value true indicates that the modification was successful, and false indicates that the modification failed.
RequestId	String	ECC2D0D1-B6D5-468D-B698-30E8805EB574	The ID of the request.

Examples

Sample request

```
 http ( s )://[ Endpoint ]/?  Action = ModifyFlow
& Id = F - 7A39731FE7  19 ****
& ProjectId = FP - 3535FE0BE5  22 ****
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

Sample success response

`XML` format

```
< ModifyFlow  Response >
   < RequestId > ECC2D0D1 - B6D5 - 468D - B698 - 30E8805EB5  74 </
 RequestId >
   < Data > true </ Data >
</ ModifyFlow  Response >
```

`JSON` format

```
{
 " Data ": true ,
 " RequestId ":" ECC2D0D1 - B6D5 - 468D - B698 - 30E8805EB5  74 "
}
```

Error codes

For more information about error codes, see API Error Center.

5.41 ListFlowCategory

You can call this operation to query workflow directories.

Debugging

Alibaba Cloud provides OpenAPI Explorer to simplify API usage. You can use OpenAPI Explorer to search for APIs, call APIs, and dynamically generate SDK example code.

Request parameters

Parameter	Type	Required	Example	Description
`Action`	String	Yes	ListFlowCategory	The operation that you want to perform. Set this parameter to ListFlowCategory.
`ProjectId`	String	Yes	FP-6E8E198E6C79****	The ID of the project.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region.
`PageNumber`	Integer	No	1	The number of the page to return.

Parameter	Type	Required	Example	Description
`PageSize`	Integer	No	10	The number of entries to return on each page.
`ParentId`	String	No	FC-6E8E198E6C79179C	The ID of the parent directory.
`Root`	Boolean	No	false	Specifies whether to use the root directory.

Response parameters

Parameter	Type	Example	Description
Categories			The list of directories.
CategoryType	String	FILE	The node type of the directory. Valid values: · FILE: file · FOLDER: folder
GmtCreate	Long	1563848015000	The time when the directory was created.
GmtModified	Long	1563848015000	The time when the directory was modified.
Id	String	FC-DF781BBF3F2E8317	The ID of the directory.
Name	String	Test	The name of the directory.
ObjectId	String	F-0B30759C146EA1E7	The ID of the associated entity, for example, job or workflow.
ObjectType	String	FLOW	The type of the associated entity. Valid values: · FLOW: workflow · JOB: job

Parameter	Type	Example	Description
ParentId	String	FC-DF781BBF3F2E8318	The ID of the parent directory.
ProjectId	String	FP-179332E88F52****	The ID of the project.
Type	String	FLOW	The type of the directory. Valid values: · FLOW: workflow · JOB: job
PageNumber	Integer	1	The number of the page returned.
PageSize	Integer	10	The number of entries returned on each page.
RequestId	String	5ECD6EA1-838E-4BDF-96C8-AEAA40F04F48	The ID of the request.
Total	Integer	100	The total number of directories.

Examples

Sample request

```
 http ( s )://[ Endpoint ]/?  Action = ListFlowCa  tegory
& ProjectId = FP - 6E8E198E6C  79 ****
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

Sample success response

`XML` format

```
< ListFlowCa  tegoryResp  onse >
  < PageSize > 10 </ PageSize >
   < RequestId > BCF52B64 - 007F - 4883 - BAEA - 0499106D07  C2 </
 RequestId >
   < PageNumber > 1 </ PageNumber >
   < Total > 1 </ Total >
   < Categories >
      < categoryTy  pe > FOLDER </ categoryTy  pe >
      < gmtModifie  d > 1563848002  000 </ gmtModifie  d >
      < name > FLOW </ name >
      < id > FC - D566F13A20  A00D18 </ id >
      < gmtCreate > 1563848002  000 </ gmtCreate >
      < type > FLOW </ type >
```

```
      < projectId > FP - 179332E88F  52 ****</ projectId >
      < parentId > root_paren  t </ parentId >
   </ Categories >
</ ListFlowCa  tegoryResp  onse >
```

`JSON` format

```
{
 " PageNumber ": 1 ,
 " PageSize ": 10 ,
 " RequestId ":" BCF52B64 - 007F - 4883 - BAEA - 0499106D07  C2 ",
 " Categories ":[
  {
   " id ":" FC - D566F13A20  A00D18 ",
   " gmtModifie  d ": 1563848002  000 ,
   " parentId ":" root_paren  t ",
   " gmtCreate ": 1563848002  000 ,
   " name ":" FLOW ",
   " categoryTy  pe ":" FOLDER ",
   " projectId ":" FP - 179332E88F  52 ****",
   " type ":" FLOW "
  }
 ],
 " Total ": 1
}
```

Error codes

For more information about error codes, see API Error Center.

5.42 ModifyFlowProjectClusterSetting

You can call this operation to modify the settings of a cluster associated with a project.

Debugging

Alibaba Cloud provides OpenAPI Explorer to simplify API usage. You can use OpenAPI Explorer to search for APIs, call APIs, and dynamically generate SDK example code.

Request parameters

Parameter	Type	Required	Example	Description
`Action`	String	Yes	ModifyFlowProjectClusterSetting	The operation that you want to perform. Set this parameter to ModifyFlowProjectClusterSetting.

Parameter	Type	Required	Example	Description
`ClusterId`	String	Yes	C-FDB726F71863****	The ID of the cluster.
`ProjectId`	String	Yes	FP-179332E88F52****	The ID of the project.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region.
`DefaultQueue`	String	No	default	The default queue to which the request is submitted.
`DefaultUser`	String	No	hadoop	The default user who submits the request.
`HostList.N`	RepeatLis	No	emr-header-1	The whitelist of hosts from which the request can be submitted.
`QueueList.N`	RepeatLis	No	queue1	The whitelist of queues to which the request can be submitted.
`UserList.N`	RepeatLis	No	user1	The whitelist of users who can submit the request.

Response parameters

Parameter	Type	Example	Description
Data	Boolean	true	The modification result. The value true indicates that the modification was successful, and false indicates that the modification failed.
RequestId	String	5ECD6EA1-838E-4BDF-96C8-AEAA40F04F48	The ID of the request.

Examples

Sample request

```
 http ( s )://[ Endpoint ]/?  Action = ModifyFlow  ProjectClu
 sterSettin  g
& ClusterId = C - FDB726F718  63 ****
& ProjectId = FP - 179332E88F  52 ****
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

Sample success response

`XML` format

```
< ModifyFlow  ProjectClu  sterSettin  gResponse >
  < code > 200 </ code >
   < data >
      < RequestId > 5ECD6EA1 - 838E - 4BDF - 96C8 - AEAA40F04F  48 </
 RequestId >
      < Data > true </ Data >
   </ data >
   < requestId > 5ECD6EA1 - 838E - 4BDF - 96C8 - AEAA40F04F  48 </
 requestId >
   < successRes  ponse > true </ successRes  ponse >
</ ModifyFlow  ProjectClu  sterSettin  gResponse >
```

`JSON` format

```
{
 " successRes  ponse ": true ,
 " requestId ":" 5ECD6EA1 - 838E - 4BDF - 96C8 - AEAA40F04F  48 ",
 " data ":{
  " Data ": true ,
  " RequestId ":" 5ECD6EA1 - 838E - 4BDF - 96C8 - AEAA40F04F  48 "
 },
 " code ":" 200 "
}
```

Error codes

For more information about error codes, see API Error Center.

5.43 ModifyFlowCategory

You can call this operation to rename a directory.

Debugging

Alibaba Cloud provides OpenAPI Explorer to simplify API usage. You can use OpenAPI Explorer to search for APIs, call APIs, and dynamically generate SDK example code.

Request parameters

Parameter	Type	Required	Example	Description
`Action`	String	Yes	ModifyFlowCategory	The operation that you want to perform. Set this parameter to ModifyFlowCategory.
`Id`	String	Yes	FC-ABCDEFGHI****	The ID of the directory.
`ProjectId`	String	Yes	FP-ABCDEFGHI****	The ID of the project.
`RegionId`	String	Yes	cn-hangzhou	The ID of the region.
`Name`	String	No	Test	The new name of the directory.
`ParentId`	String	No	FC-ABCDEFGHI****	The ID of the parent directory.

Response parameters

Parameter	Type	Example	Description
Data	Boolean	true	The modification result. The value true indicates that the modification was successful, and false indicates that the modification failed.
RequestId	String	CEA9AFD2-B340-41F4-A661-8916CBF07C32	The ID of the request.

Examples

Sample request

```
 http ( s )://[ Endpoint ]/?  Action = ModifyFlow  Category
& Id = FC - ABCDEFGHI ****
& ProjectId = FP - ABCDEFGHI ****
& RegionId = cn - hangzhou
```

```
&< Common   request   parameters >
```

Sample success response

`XML` format

```
< ModifyFlow  CategoryRe  sponse >
  < code > 200 </ code >
   < data >
      < RequestId > CEA9AFD2 - B340 - 41F4 - A661 - 8916CBF07C  32 </
 RequestId >
      < Data > true </ Data >
   </ data >
   < requestId > CEA9AFD2 - B340 - 41F4 - A661 - 8916CBF07C  32 </
 requestId >
   < successRes  ponse > true </ successRes  ponse >
</ ModifyFlow  CategoryRe  sponse >
```

`JSON` format

```
{
 " successRes  ponse ": true ,
 " requestId ":" CEA9AFD2 - B340 - 41F4 - A661 - 8916CBF07C  32 ",
 " data ":{
  " Data ": true ,
  " RequestId ":" CEA9AFD2 - B340 - 41F4 - A661 - 8916CBF07C  32 "
 },
 " code ":" 200 "
}
```

Error codes

For more information about error codes, see API Error Center.

5.44 ModifyFlowForWeb

You can call this operation to modify the graphical information of a workflow.

Request parameters

Name	Type	Required	Example	Description
Id	String	Yes	F-7A39731FE7196358	The ID of the workflow.
ProjectId	String	Yes	FP-3535FE0BE5224A47	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.

Name	Type	Required	Example	Description
AlertConf	String	No	{"items":[{"enable":true,"eventId":"EMR-210401001","alertUserGroupIdList":["AUG-b79bb29bb6e14ddd89674a242623851b"],"alertDingDingGroupList":["ADG-af1f9689d6194e2dbd89927d5c515172"]},{"enable":true,"eventId":"EMR-110401015","alertUserGroupIdList":["AUG-b79bb29bb6e14ddd89674a242623851b"],"alertDingDingGroupList":["ADG-af1f9689d6194e2dbd89927d5c515172"]},{"enable":true,"eventId":"EMR-110401002","alertUserGroupIdList":["AUG-b79bb29bb6e14ddd89674a242623851b"],"alertDingDingGroupList":["ADG-af1f9689d6194e2dbd89	The configurations of the alerts and notifications. Valid values of the eventId property include EMR-210401001 (workflow failure), EMR-110401002 (workflow success), and EMR-110401015 (workflow node failure).

Name	Type	Required	Example	Description
AlertDingDingGroupBizId	String	No	This is a legacy parameter.	The ID of the DingTalk group to send alerts.
AlertUserGroupBizId	String	No	This is a legacy parameter.	The ID of the user group to send alerts.
ClusterId	String	No	A23BD131A862F184	The ID of the cluster.
CreateCluster	Boolean	No	false	Indicates whether the cluster is created using a cluster template. A value of true indicates that the cluster is created using a cluster template. The format of the cluster ID is CT-xxx. A value of false indicates that an existing cluster is used. The format of the cluster ID is C-xxx.
CronExpr	String	No	0 0 0-23/1 * * ?	The cron expression of the periodic schedule. See A Cron Expressions.

Name	Type	Required	Example	Description
Description	String	No	This is a workflow description.	The descriptio n of the workflow . Length constraints : Maximum length of 256.
EndSchedule	Long	No	1538018814000	The end time of the schedule (long timestamp). For example , the return value of the System. currentTim eMillis() method.

Name	Type	Required	Example	Description
Graph	String	No	{"nodes":[{"id":"48d474ea","index":0,"spmAnchorId":"0.0.0.i0.766645eb2cmNtQ","attribute":{"type":"START"},"shape":"startControlNode","type":"node","y":250,"size":"80*34","x":500},{"id":"7ba480b3","index":1,"spmAnchorId":"5176.8250060.0.i19.771e28d0IPNQGE","attribute":{"jobType":"SHELL","jobId":"FJ-7BE1062897B19D25","type":"JOB"},"config":{"hostName":""},"label":"fail_job","shape":"shellJobNode","type":"node","y":398.5,"size":"170*34","x":470.5},{"id":"33202d60","index":2,"spmAnchorId":"5176.8250060.0.i23.771e28d0IPNQGE","attribute":{"type":"END"},"shape":"	The graphical information of the workflow.

Name	Type	Required	Example	Description
HostName	String	No	emr-header-1.cluster-123456	The information of the host on which the workflow is run.
Name	String	No	my_flow	The name of the workflow. Length constraints: Maximum length of 64. A workflow name is required to be unique for each project.
ParentCategory	String	No	FC-F2495319DA05CEE5	The ID of the parent category.
ParentFlowList	String	No	[F-123456]	The list of the parent workflows.
Periodic	Boolean	No	true	Indicates whether the workflow is scheduled periodically.

Name	Type	Required	Example	Description
StartSchedule	Long	No	1538017814000	The start time of the schedule (long timestamp). For example, the return value of the System.currentTimeMillis() method. 1. The value of StartSchedule is required to be smaller than the value of EndSchedule. This parameter is required to be specified when the value of CronExpr is not null.
Status	String	No	STOP_SCHEDULE	The status of the workflow. Valid values: STOP_SCHEDULE and UNDER_SCHEDULE.

Response parameters

Name	Type	Example	Description
RequestId	String	243D5A48-96A5-4C0C-8966-93CBF65635ED	The ID of the request.
Data	Boolean	true	Indicates whether the workflow is modified.

Examples

- **Sample requests**

```
/?  Id = F - 7A39731FE7  196358
& ProjectId = FP - 257A173659  F59685
& RegionId = cn - hangzhou
& AlertConf ={" items ":[{" enable ": true ," eventId ":" EMR
 - 210401001 "," alertUserG  roupIdList ":[" AUG - b79bb29bb6
 e14ddd8967  4a24262385  1b "]," alertDingD  ingGroupLi  st ":[" ADG
 - af1f9689d6  194e2dbd89  927d5c5151  72 "]},{" enable ": true ,"
 eventId ":" EMR - 110401015 "," alertUserG  roupIdList ":[" AUG -
 b79bb29bb6  e14ddd8967  4a24262385  1b "]," alertDingD  ingGroupLi
 st ":[" ADG - af1f9689d6  194e2dbd89  927d5c5151  72 "]},{" enable
 ": true ," eventId ":" EMR - 110401002 "," alertUserG  roupIdList
 ":[" AUG - b79bb29bb6  e14ddd8967  4a24262385  1b "]," alertDingD
 ingGroupLi  st ":[" ADG - af1f9689d6  194e2dbd89  927d5c5151  72
 "]}]}
& ClusterId = A23BD131A8  62F184
& CreateClus  ter = false
& CronExpr = 0   0   0 - 23 / 1  * * ?
& Descriptio  n =" This   is   a   workflow   descriptio  n ."
& EndSchedul  e = 1538018814  000
& Graph ={" nodes ":[{" id ":" 48d474ea "," index ": 0 ,"
 spmAnchorI  d ":" 0 . 0 . 0 . i0 . 766645eb2c  mNtQ "," attribute
 ":{" type ":" START "}," shape ":" startContr  olNode "," type
 ":" node "," y ": 250 ," size ":" 80 * 34 "," x ": 500 },{" id ":"
 7ba480b3 "," index ": 1 ," spmAnchorI  d ":" 5176 . 8250060 . 0
 . i19 . 771e28d0IP  NQGE "," attribute ":{" jobType ":" SHELL ","
 jobId ":" FJ - 7BE1062897  B19D25 "," type ":" JOB "}," config ":
{" hostName ":""}," label ":" fail_job "," shape ":" shellJobNo  de
 "," type ":" node "," y ": 398 . 5 ," size ":" 170 * 34 "," x ":
 470 . 5 },{" id ":" 33202d60 "," index ": 2 ," spmAnchorI  d ":"
 5176 . 8250060 . 0 . i23 . 771e28d0IP  NQGE "," attribute ":{" type
 ":" END "}," shape ":" endControl  Node "," type ":" node "," y ":
 562 . 5 ," size ":" 80 * 34 "," x ": 430 . 5 }]," edges ":[{" id
 ":" 28167ea0 "," index ": 3 ," source ":" 48d474ea "," sourceAnch
 or ": 0 ," target ":" 7ba480b3 "," targetAnch  or ": 0 },{" id ":"
 e8d5ff52 "," index ": 4 ," source ":" 7ba480b3 "," sourceAnch  or
 ": 1 ," target ":" 33202d60 "," targetAnch  or ": 0 }]}
& HostName = emr - header - 1 . cluster - 123456
& Name = my_flow
& ParentCate  gory = FC - F2495319DA  05CEE5
& ParentFlow  List =[ F - 123456 ]
& Periodic = true
& StartSched  ule = 1538017814  000
& Status = STOP_SCHED  ULE
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
 " Data ": true ,
 " RequestId ":" ECC2D0D1 - B6D5 - 468D - B698 - 30E8805EB5  74 "
```

```
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Invalid   type  [ INVALID_TY  PE ]",
 " requestId ":" 11BAFBD8 - 8509 - 4177 - A26D - 407505E737  13 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.45 ModifyFlowProject

You can call this operation to modify a project.

Request parameters

Name	Type	Required	Example	Description
ProjectId	String	Yes	FP-257A173659F59685	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.
Description	String	No	my_flow_description	The description of the project.
Name	String	No	my_project	The name of the project.

Response parameters

Name	Type	Example	Description
RequestId	String	11BAFBD8-8509-4177-A26D-407505E73713	The ID of the request.
Data	Boolean	true	Indicates whether the project is modified.

Examples

- Sample requests

```
/?  ProjectId = FP - 257A173659  F59685
& RegionId = cn - hangzhou
& Descriptio  n =" my   flow   descriptio  n "
& Name = my_project
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " Data ":  true ,
 " RequestId ":" ECC2D0D1 - B6D5 - 468D - B698 - 30E8805EB5  74 "
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" project   not   exist ",
 " requestId ":" 11BAFBD8 - 8509 - 4177 - A26D - 407505E737  13 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.46 ModifyFlowJob

You can call this operation to modify a job.

Request parameters

Name	Type	Required	Example	Description
Id	String	Yes	FJ-BCCAE48B90CCB37B	The ID of the job.
ProjectId	String	Yes	FP-257A173659F59685	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.
ClusterId	String	No	C-A23BD131A862F184	The ID of the cluster.

Name	Type	Required	Example	Description
Description	String	No	This is a job description.	The description of the job.
EnvConf	String	No	{"key":"value"}	The configurations of the environment variables.
FailAct	String	No	CONTINUE	The action to take after failure. Valid values: STOP and CONTINUE.
MaxRetry	Integer	No	5	The maximum number of retries. Valid values: 0 to 5.
Mode	String	No	YARN	The mode of the model. Valid values: YARN and LOCAL. YARN: The job is submitted to and runs on YARN as a launcher. LOCAL: The job runs on the local machine as a process.

Name	Type	Required	Example	Description
MonitorConf	String	No	{"inputs":[{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic","consumer.group":"kafka_consumer_group"}],"outputs":[{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic"}]}	The monitoring configurations. Only jobs of the SPARK_STREAMING type are supported.
Name	String	No	my_shell_job	The name of the job.
ParamConf	String	No	{"date":"${yyyy-MM-dd}"}	The parameter configurations.
Params	String	No	ls -l	The content of the job.
ResourceList.N.Alias	String	No	demo.jar	The alias of the job.
ResourceList.N.Path	String	No	oss://path/demo.jar	The path of the resource. OSS and HDFS are supported.
RetryInterval	Long	No	200	The interval between retries. Valid values: 0 to 300. Unit: seconds.

Name	Type	Required	Example	Description
RunConf	String	No	{"priority":1,"userName":"hadoop","memory":2048,"cores":1}	The run configurations. priority: The priority to run the instance. userName: The Linux user that submits the instance. memory: The size of the allocated memory for running the instance. Unit: megabytes. cores: The number of allocated vCPUs for running the instance.

Response parameters

Name	Type	Example	Description
RequestId	String	549175a-6d14-4c8a-89f9-5e28300f6d7e	The ID of the request.
Data	Boolean	true	Indicates whether the job is modified.

Examples

- Sample requests

```
/?  Action = ModifyFlow  Job
& Id = FJ - BBCAE48B90  CCB37B
& ProjectId = FP - 257A173659  F59685
& RegionId = cn - hangzhou
& ClusterId = C - A23BD131A8  62F184
& Descriptio  n =" This   is   a   job   descriptio  n ."
& EnvConf ={" key ":" value "}
& FailAct = CONTINUE
& MaxRetry = 5
& Mode = YARN
```

```
& MonitorCon  f ={" inputs ":[{" type ":" KAFKA "," clusterId ":"
 C - 1234567 "," topics ":" kafka_topi  c "," consumer . group
 ":" kafka_cons  umer_group "}]," outputs ":[{" type ":" KAFKA ","
 clusterId ":" C - 1234567 "," topics ":" kafka_topi  c "}]}
& Name = my_shell_j  ob
& ParamConf ={" date ":"${ yyyy - MM - dd }"}
& Params = ls  - l
& ResourceLi  st .  1 .  Alias = demo . jar
& ResourceLi  st .  1 .  Path = oss :// path / demo . jar
& RetryInter  val = 200
& RunConf ={" priority ": 1 ," userName ":" hadoop "," memory ":
 2048 ," cores ": 1 }
&< Common   request   parameters >
```

- **Successful response examples**

  JSON format

```
{
 " Data ": true ,
 " RequestId ":" ECC2D0D1 - B6D5 - 468D - B698 - 30E8805EB5  74 "
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" Invalid   job   type  [ INVALID_TY  PE ]",
 " requestId ":" 11BAFBD8 - 8509 - 4177 - A26D - 407505E737  13 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.47 RerunFlow

You can call this operation to rerun a workflow instance.

Request parameters

Name	Type	Required	Example	Description
FlowInstanceId	String	Yes	FI-9DDAAA3ADA5F6FA2	The ID of the workflow instance.
ProjectId	String	Yes	FP-3535FE0BE5224A47	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.

Name	Type	Required	Example	Description
ReRunFail	Boolean	No	true	Indicates whether only the failed workflow nodes are rerun.

Response parameters

Name	Type	Example	Description
RequestId	String	B46F8A2A-B46B-415C-8A9C-B01B99B775A2	The ID of the request.
Data	Boolean	true	Indicates whether the workflow is rerun.

Examples

- Sample requests

```
/?  Action = RerunFlow
& FlowInstan  ceId = FI - 9DDAAA3ADA  5F6FA2
& ProjectId = FP - 3535FE0BE5  224A47
& RegionId = cn - hangzhou
& ReRunFail = true
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " Data ": true ,
 " RequestId ":" B46F8A2A - B46B - 415C - 8A9C - B01B99B775  A2 "
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" project   not   exist ",
 " requestId ":" 11BAFBD8 - 8509 - 4177 - A26D - 407505E737  13 ",
 " successRes  ponse ": false
```

```
}
```

Error codes

View error codes.

5.48 ResumeFlow

You can call this operation to resume a workflow.

Request parameters

Name	Type	Required	Example	Description
FlowInstanceId	String	Yes	FI-9DDAAA3ADA5F6FA2	The ID of the workflow instance.
ProjectId	String	Yes	FP-3535FE0BE5224A47	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.

Response parameters

Name	Type	Example	Description
RequestId	String	B46F8A2A-B46B-415C-8A9C-B01B99B775A2	The ID of the request.
Data	Boolean	true	Indicates whether the workflow is resumed.

Examples

- Sample requests

```
/?  Action = ResumeFlow
& FlowInstan  ceId = FI - 9DDAAA3ADA  5F6FA2
& ProjectId = FP - 3535FE0BE5  224A47
& RegionId = cn - hangzhou
&< Common   request   parameters >>
```

- Successful response examples

  JSON format

```
{
```

```
 " Data ": true ,
 " RequestId ":" B46F8A2A - B46B - 415C - 8A9C - B01B99B775  A2 "
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" project   not   exist ",
 " requestId ":" 11BAFBD8 - 8509 - 4177 - A26D - 407505E737  13 ",
 " successRes  ponse ":  true
}
```

Error codes

View error codes.

5.49 SubmitFlow

You can call this operation to submit a workflow.

Request parameters

Name	Type	Required	Example	Description
FlowId	String	Yes	F-7A39731FE7196358	The ID of the workflow.
ProjectId	String	Yes	257A173659F59685	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.
Conf	String	No	{"cyctime":"1542783967503"}	The configurations of parameters. cyctime: The duration of the schedule (long timestamp).

Response parameters

Name	Type	Example	Description
RequestId	String	243D5A48-96A5-4C0C-8966-93CBF65635ED	The ID of the request.

Name	Type	Example	Description
Id	String	FI-7A39731FE7 196358	The ID of the workflow instance.

Examples

- Sample requests

```
/?  FlowId = F - 7A39731FE7  196358
& ProjectId = 257A173659  F59685
& RegionId = cn - hangzhou
& Conf ={" cyctime ":" 1542783967  503 "}
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " Id ":" FI - 7A39731FE7  196358 ",
 " RequestId ":" 2670BCFB - 925D - 4C3E - 9994 - 8D12F7A9F5  38 "
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" project   not   exist ",
 " requestId ":" 11BAFBD8 - 8509 - 4177 - A26D - 407505E737  13 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.50 SubmitFlowJob

You can call this operation to submit a job. Job instances are not allowed to be running at the same time.

Request parameters

Name	Type	Required	Example	Description
ClusterId	String	Yes	C-F32FB31D82 954C64	The ID of the cluster.

Name	Type	Required	Example	Description
JobId	String	Yes	FJ-1A2FB31D82954C64	The ID of the job.
ProjectId	String	Yes	FP-3535FE0BE5224A47	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.
Conf	String	No	{"key":"value"}	The configurations of parameters. When the key is params, the corresponding value overwrites the run parameter value in the job.
HostName	String	No	emr-header-1.cluster-12345	The hostname of the host on which the workflow runs. Only master nodes and gateways are supported. You can use the hostname command to view the hostname of the host that you want for running the workflow.

Response parameters

Name	Type	Example	Description
RequestId	String	B46F8A2A-B46B-415C-8A9C-B01B99B775A2	The ID of the request.

Name	Type	Example	Description
Id	String	FJI-9DDAAA3ADA 5F6FA2	The ID of the job instance.

Examples

- Sample requests

```
/?  Action = SubmitFlow  Job
& ClusterId = C - F32FB31D82  954C64
& JobId = FJ - 1A2FB31D82  954C64
& ProjectId = FP - 3535FE0BE5  224A47
& RegionId = cn - hangzhou
& Conf ={" key ":" value "}
& HostName = emr - header - 1 . cluster - 12345
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " Id ":" FJI - 9DDAAA3ADA  5F6FA2 ",
 " RequestId ":" B46F8A2A - B46B - 415C - 8A9C - B01B99B775  A2 "
}
```

- Error response examples

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" project   not   exist ",
 " requestId ":" 11BAFBD8 - 8509 - 4177 - A26D - 407505E737  13 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

5.51 SuspendFlow

You can call this operation to suspend a workflow.

Request parameters

Parameter	Type	Required	Example	Description
FlowInstanceId	String	Yes	FI-9DDAAA3ADA5F6FA2	FI-9DDAAA3ADA5F6FA2
ProjectId	String	Yes	FP-3535FE0BE5224A47	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The region location ID.

Response parameters

Parameter	Type	Example	Description
RequestId	String	B46F8A2A-B46B-415C-8A9C-B01B99B775A2	The ID of the request.
Data	Boolean	true	Indicates whether the workflow is suspended.

Examples

- Sample requests

```
/?  Action = SuspendFlo  w
& FlowInstan  ceId = FI - 9DDAAA3ADA  5F6FA2
& ProjectId = FP - 3535FE0BE5  224A47
& RegionId = cn - hangzhou
&< Common   request   parameters >
```

- Successful response examples

  JSON format

```
{
 " Data ": true ,
 " RequestId ":" B46F8A2A - B46B - 415C - 8A9C - B01B99B775  A2 "
```

```
}
```

- **Error response examples**

  JSON format

```
{
 " code ":" FLOW_API_F  AILED ",
 " message ":" project   not   exist ",
 " requestId ":" 11BAFBD8 - 8509 - 4177 - A26D - 407505E737  13 ",
 " successRes  ponse ": false
}
```

Error codes

View error codes.

6 Old EMR Scheduling

6.1 Execution plan

6.1.1 CreateExecutionPlan

You can call this operation to create an execution plan.

Request parameters

Field	Type	Required	Default value	Description
RegionId	String	Yes	None	The ID of the region.
Name	String	Yes	None	The name of the execution plan.
Strategy	String	Yes	None	The running policy of the execution plan. RUN_MANUALLY: Manual execution. Run the execution plan only when triggered by users. SCHEDULE: Periodic scheduling. Run the execution plan on the set interval.

Field	Type	Required	Default value	Description
StartTime	Long	No. It is required if Strategy== SCHEDULE.	None	The start time of the periodic scheduling . Unit: millisecond. The format is TIMESTAMP (UTC). For example, 1497516900000.
TimeUnit	String	No. It is required if Strategy== SCHEDULE.	None	The time interval for periodic scheduling: DAY: The unit is the day. HOUR: The unit is the hour.
TimeInterval	Integer	No. It is required if Strategy== SCHEDULE.	None	The time interval. If the unit is the day , set the value to 1. If the unit is the hour, set the value to a number in the range from 1 to 23.
JobIdList	Array	Yes	None	The array of the job IDs. For example, [“J -90D5FC26DA 8C7CA7” ,” J -A5B1F50375 2DE01F”].
CreateClus terOnDemand	Boolean	No	false	Specifies whether to create a cluster on demand dynamically.

Field	Type	Required	Default value	Description
ClusterId	String	No. It is required if CreateClusterOnDemand=false.	None	The ID of the existing cluster.
When you set CreateClusterOnDemand to true, the cluster is created on demand according to the settings of the following parameters.				
ClusterName	Boolean	Yes	None	The name of the newly created cluster.
ZoneId	String	No	None	The zone location ID. For example, cn-hangzhou-b.
LogEnable	Boolean	Yes	None	Specifies whether to enable storing logs. Before using this function, make sure you have activated OSS.
LogPath	String	Required only when LogEnable==true	None	The location of the log that is stored in OSS. The format is: oss://bucketname/dir

Field	Type	Required	Default value	Description
SecurityGroupId	String	Yes	None	The ID of a security group. You can create a security group in the ECS console and use it. Note: If you are using an existing security group, the default security group policy is applied to this security group: Only port 22 is open at the inbound and all ports are open at the outbound.
IsOpenPublicIp	Boolean	No	true	Specifies whether to enable the public network IP address. The default bandwidth is 8 MB.
EmrVer	String	Yes	None	The product version of E-MapReduce. For example, EMR 1.0.0 and EMR 1.1.0.

Field	Type	Required	Default value	Description
ClusterType	String	Yes		The type of the cluster. Hadoop is supported. Hbase is not supported.
HighAvailabilityEnable	Boolean	No	false	Specifies whether to enable high availability. If it is enabled, a minimum of two master nodes is required.
EcsOrder	EcsOrder	Yes	None	The machine information of ECS instances contained by the cluster. The format is JSON. For example, [{"nodeCount":3, "nodeType":"MASTER", "instanceType":"ecs.n1.large", "diskType":"CLOUD_EFFICIENCY", "diskCapacity":80,diskCount":1}]

Field	Type	Required	Default value	Description
BootstrapActions	List BootstrapAction	No	None	The lists of bootstrap actions. The maximum number is 16. If the maximum is exceeded, only the first 16 lists are retained.
Configurations	String	No	None	The OSS file path. For the contents of this file, see the user manual.
VpcId	String	No	None	The VPC ID.
VSwitchId	String	No	None	The ID of VSwitch.
NetType	String	No	classic	Valid values: classic and vpc. Default value: classic.
IoOptimized	Boolean	No	true	Specifies whether to enable IO optimization. The default value is true.
InstanceGeneration	String	No	None	The generation of the ECS instance. Set the value to ecs-1 or ecs-2.

Response parameters

Field	Type	Description
Id	String	The ID of the execution plan.

Examples

- **Sample requests**

```
 https :// emr . aliyuncs . com /? Action = CreateExec  utionPlan
& ClusterNam  e = Test
& ClusterTyp  e = HADOOP
& LogEnable = false
& SecurityGr  oupId = sg - 234r6xoqe
& IsOpenPubl  icIp = true
& ZoneId = cn - hangzhou - b
& EmrVer = EMR + 1 . 1 . 0
& EcsOrder =[{" nodeCount ": 3 ," nodeType ":" master ","
 instanceTy  pe ":" ecs . n1 . large "," diskType ":" CLOUD_EFFI
 CIENCY "," diskCapaci  ty ": 80 }]
& MasterInde  x = 1
& Name = MyJobFlow
& StartTime = 1497516900  000
& TimeInterv  al = 1
& Strategy = RUN_MANUAL  LY
& CreateClus  terOnDeman  d = true
& JobIdList =% 5B % 22J - 90D5FC26DA  8C7CA7 % 22 % 2C % 22J -
 A5B1F50375  2DE01F % 22 % 5D
& RegionId = cn - hangzhou
& Common   request   parameters
```

- **Sample responses**

  JSON format

```
{
    " RequestId ": " 34B08619 - 2636 - 49F9 - AB4E - CD8D347B1E  07
 ",
    " Id ":" WF - 13A570B821  D4BAB3 "
}
```

6.1.2 DescribeExecutionPlan

You can call this operation to query the details of an execution plan.

Request parameters

Field	Type	Required	Default value	Description
Id	String	Yes	None	The ID of the execution plan.
RegionId	String	Yes	None	The ID of the region.

Response parameters

Field	Type	Description
Id	String	The ID of the execution plan.

Field	Type	Description
Name	String	The name of the execution plan.
Strategy	String	The running policy of the execution plan. RUN_MANUALLY: Manual execution. Run the execution plan only when triggered by users . SCHEDULE: Periodic scheduling. Run the execution plan on the set interval.
StartTime	Long	The start time of the periodic scheduling.
TimeUnit	String	The time interval for periodic scheduling. DAY: The unit is the day. HOUR: The unit is the hour.
TimeInterval	Integer	The time interval. If the unit is the day, set the value to 1. If the unit is the hour, set the value to a number in the range from 1 to 23.
JobInfoList	JobInfo	The list of the associated jobs.
CreateClusterOnDemand	Boolean	Indicates whether to create a dynamic cluster on demand.
ClusterId	String	The ID of the cluster. If CreateClusterOnDemand==false, this value is returned. Otherwise, no value is returned because it is a cluster created on demand.

Field	Type	Description
ClusterInfo	ClusterInfo	The detailed informatio n about the cluster. If CreateClusterOnDeman d==true, this value is returned.

Examples

- Sample requests

```
 https :// emr . aliyuncs . com //? Action = DescribeEx  ecutionPla
 n
& Id = WF - 13A570B821  D4BAB3
& RegionId = cn - hangzhou
& Common   request   parameters
```

- Sample responses

  JSON format

```
```

6.1.3 ListExecutionPlans

You can call this operation to query a list of execution plans.

Request parameters

Field	Type	Required	Default value	Description
RegionId	String	Yes	None	
PageNumber	Integer	No	1	The page number to query.
PageSize	Integer	No	10	The number of rows to display per page.

Response parameters

Field	Type	Required
ExecutionPlans	Array<ExecutionPlanInfo>	The list of the execution plans.
TotalCount	Integer	The total number of rows.
PageNumber	Integer	The current page number.

Field	Type	Required
PageSize	Integer	The number of rows to display per page.

Examples

- Sample requests

```
 https :// emr . aliyuncs . com /? Action = ListExecut  ionPlans
& PageSize = 50
& PageNumber = 1
& RegionId = cn - hangzhou
& Common   request   parameters
```

- Sample responses

  JSON format

6.1.4 ModifyExecutionPlan

You can call this operation to modify en execution plan.

Request parameters

Field	Type	Required	Default value	Description
RegionId	String	Yes	None	The ID of the region.
Id	String	Yes	None	The ID of the execution plan.
Name	String	Yes	None	The name of the execution plan.

Field	Type	Required	Default value	Description
Strategy	String	Yes	None	The running policy of the execution plan. RUN_MANUALLY: Manual execution. The execution plan runs only when triggered by users. SCHEDULE: Periodic scheduling. The execution plan runs based on the set interval.
StartTime	Long	No. It is required if Strategy==SCHEDULE.	None	The time when periodic scheduling takes effect.
TimeUnit	String	No. It is required if Strategy==SCHEDULE.	None	The time interval for periodic scheduling. DAY: The unit is the day. HOUR: The unit is the hour.
TimeInterval	Integer	No. It is required if Strategy==SCHEDULE.	None	The time interval. If the unit is the day, set the value to 1. If the unit is the hour, set the value to a number in the range from 1 to 23.

Field	Type	Required	Default value	Description
JobIdList	Array	Yes	None	The array of the job IDs. For example, [“J-24H770B821D3C56A” ,” J-8A37Y0B821D3C90R”]
CreateClusterOnDemand	Boolean	No	false	Specifies whether to create a cluster on demand dynamically.
ClusterId	String	No. It is required if CreateClusterOnDemand ==false.	None	The ID of the existing cluster .
When you set CreateClusterOnDemand to true, the cluster is created on demand according to the settings of the following parameters.				
ClusterName	Boolean	No	None	The name of the newly created cluster.
ZoneId	String	No	None	The zone location ID. For example, cn-hangzhou-b.

Field	Type	Required	Default value	Description
LogEnable	Boolean	Yes	None	Specifies whether to enable or disable storing logs. Make sure you have activated OSS before using this function.
LogPath	String	Only required when LogEnable==true	None	The location of the log that is stored in OSS. The format is: oss://bucketname/dir
SecurityGroupId	String	Yes	None	The ID of a security group. You can create a security group in the ECS console and use it. Note: If you are using an existing security group, the default security group policy is applied to this security group. Only port 22 is open at the inbound and all ports are open at the outbound.

Field	Type	Required	Default value	Description
IsOpenPublicIp	Boolean	No	true	Specifies whether to enable a public network IP address. The default bandwidth is 8 MB.
EmrVer	String	Yes	None	The product version of E-MapReduce. For example: EMR-2.4.1 or EMR-3.0.1
ClusterType	String	Yes	None	The type of the cluster. HADOOP is supported. HBASE is not supported.
HighAvailabilityEnable	Boolean	No	false	Specifies whether to enable or disable high availability. If high availability is enabled, a minimum of two master nodes is required.

Field	Type	Required	Default value	Description
EcsOrder	EcsOrder	Yes	None	The machine informatio n of the ECS instances contained by the cluster is in JSON format . For example, [{ “nodeCount ” :3, “ nodeType” :” MASTER” , “instanceTy pe” :” ecs. n1.large” , “ diskType” :” CLOUD_EFFI CIENCY” , “ diskCapacity” : 80,diskCount” : 1}]
BootstrapA ctions	List BootstrapA ction	No	None	The lists of bootstrap actions. The maximum number is 16. If the maximum is exceeded, only the first 16 lists are retained.
Configurations	String	No	None	The OSS file path. For the contents of this file, see the user manual.
VpcId	String	No	None	VPC ID
VSwitchId	String	No	None	The ID of the VSwitch.

Field	Type	Required	Default value	Description
NetType	String	No	None	Valid values: classic and vpc . Default value: classic.
IoOptimized	Boolean	No	true	Indicates whether to enable IO optimization.
InstanceGeneration	String	No	No	The generation of ECS instances. Set the value to ecs -1 or ecs-2.

Response parameters

Common response parameters

Examples

- Sample requests

```
 https :// emr . aliyuncs . com /? Action = ModifyExec  utionPlan
& Id = WF - 13A570B821  D4BAB3
& CreateClus  terOnDeman  d = false
& ClusterId = C - 358770B821  D4B293
& JobIdList =% 5B % 22J - 24H770B821  D3C56A % 22 % 2C % 22J -
 8A37Y0B821  D3C90R % 22 % 5D
& Name =% E9 % A2 % 84 % E5 % 8F % 91 % E6 % B5 % 8B % E8 % AF % 95
 % E7 % 94 % A8 % E4 % BE % 8B_SSD % E7 % 9B % 98HDFS % E5 % 86 %
 99
& StartTime = 1
& TimeInterv  al = 1
& Strategy = RUN_MANUAL  LY
& RegionId = cn - hangzhou
```

- Sample responses

JSON format

```
{
    " RequestId ": " 34B08619 - 2636 - 49F9 - AB4E - CD8D347B1E  07
 "
```

```
}
```

6.1.5 DeleteExecutionPlan

You can call this operation to delete an execution plan.

Request parameters

Field	Type	Required	Default value	Description
Id	String	Yes	None	The ID of the execution plan.
RegionId	String	Yes	None	The region in which the cluster is deployed.

Response parameters

Common response parameters

Examples

- Sample requests

```
 https :// emr . aliyuncs . com /? Action = DeleteExec  utionPlan
& Id = WF - 13A570B821  D4BAB3
& RegionId = cn - hangzhou
```

- Sample responses

  JSON format

```
{
    " RequestId ": " 34B08619 - 2636 - 49F9 - AB4E - CD8D347B1E  07
 "
}
```

6.1.6 RunExecutionPlan

You can call this operation to run an execution plan.

Request parameters

Field	Type	Required	Default value	Description
RegionId	String	Yes	None	
Id	String	Yes	None	The ID of the execution plan.

Examples

- Sample requests

```
 https :// emr . aliyuncs . com /? Action = RunExecuti  onPlan
& Id = WF - 13A570B821  D4BAB3
& RegionId = cn - hangzhou
```

- Sample responses

  JSON format

```
{
    " RequestId ": " 34B08619 - 2636 - 49F9 - AB4E - CD8D347B1E  07
 "
}
```

6.1.7 ResumeExecutionPlanScheduler

You can call this operation to start the periodic scheduling of an execution plan.

Request parameters

Field	Type	Required	Default value	Description
RegionId	String	Yes	None	
Id	String	Yes	None	The ID of the execution plan.

Response parameters

Common response parameters

Examples

- Sample requests

```
 https :// emr . aliyuncs . com /? Action = ResumeExec  utionPlanS
 cheduler
& Id = WF - 13A570B821  D4BAB3
& RegionId = cn - hangzhou
& Common   request   parameters
```

- Sample responses

  JSON format

```
{
    " RequestId ": " 34B08619 - 2636 - 49F9 - AB4E - CD8D347B1E  07
 "
```

```
}
```

6.1.8 SuspendExecutionPlanScheduler

You can call this operation to stop the periodic scheduling of an execution plan.

Request parameters

Field	Type	Required	Default value	Description
RegionId	String	Yes	None	The ID of the region.
Id	String	Yes	None	The ID of the execution plan, of which the periodic scheduling is stopped.

Response parameters

Common response parameters

Examples

- Sample requests

```
 https :// emr . aliyuncs . com /? Action = SuspendExe  cutionPlan
 Scheduler
& Id = WF - 13A570B821  D4BAB3
& RegionId = cn - hangzhou
```

- Sample responses

JSON format

```
{
    " RequestId ": " 34B08619 - 2636 - 49F9 - AB4E - CD8D347B1E  07
 "
}
```

6.1.9 ListExecutionPlanInstances

You can call this operation to query a list of execution plan instances.

Request parameters

Field	Type	Required	Default value	Description
Id	String	Yes	None	The ID of the execution plan.

Field	Type	Required	Default value	Description
RegionId	String	Yes	None	
ExecutionPlanIdList	Array<String>	Yes	None	A list of the IDs of the execution plans to query. It is a string array. For example, [“WF-5D93B00901730B5E” ,” WF-5D93B00901 73ABCD”]
OnlyLastInstance	Boolean	No	false	Returns the last running logs (instances) of all the execution plans on the list if onlyLastInstance=true. If you set the value of the onlyLastInstance parameter to true, then you do not need to specify the PageNumber parameter and the PageSize parameter, and the settings do not take effect.
PageNumber	Integer	No	1	The page number to query.
PageSize	Integer	No	10	The number of rows to display per page.

Response parameters

Field	Type	Required
ExecutionPlanInstances	Array<ExecutionPlanInstance>	The details of the execution plan instances.
TotalCount	Integer	The total number of records.
PageNumber	Integer	The current page number.
PageSize	Integer	The number of rows to display per page.

Examples

- Sample requests

```
 https :// emr . aliyuncs . com /? Action = ListExecut  ionPlanIns
 tances
& ExecutionP  lanIdList =% 5B % 22WF - 5D93B00901  730B5E % 22 % 2C
 % 22WF - 5D93B00901  73ABCD % 22 % 5D
& OnlyLastIn  stance = true
& PageNumber = 1
& PageSize = 50
& RegionId = cn - hangzhou
& Common   request   parameters
```

- Sample responses

  JSON format

```
```

6.1.10 ListJobExecutionInstances

You can call this operation to query a list of job instances.

Request parameters

Field	Type	Required	Default value	Description
RegionId	String	Yes	None	
ExecutionPlanInstanceId	String	Yes	None	The ID of the execution plan instance.
pageNumber	Integer	No	1	The page number to query.

Field	Type	Required	Default value	Description
pageSize	Integer	No	10	The number of rows to display per page.

Response parameters

Field	Type	Required
JobInstances	Array<JobInstance>	The information about the job instances.
TotalCount	Integer	The total number of rows.
PageNumber	Integer	The current page number.
PageSize	Integer	The number of rows to display per page.

Examples

- Sample requests

```
 https :// emr . aliyuncs . com /? Action = ListJobExe  cutionInst
 ances
& ExecutionP  lanInstanc  eId = 500006685
& PageSize = 100
& PageNumber = 1
& RegionId = cn - hangzhou
& Common   request   parameters
```

- Sample responses

  JSON format

```
```

6.1.11 KillExecutionJobInstance

You can call this operation to stop a job instance.

Request parameters

Field	Type	Required	Default value	Description
RegionId	String	Yes	None	
JobInstanceId	String	Yes	None	The ID of the job instance.

Response parameters

Common response parameters

Examples

- Sample requests

```
 https :// emr . aliyuncs . com /? Action = KillExecut  ionJobInst
 ance
& JobInstanc  eId = WNE - F18B014FF4  10410F
& RegionId = cn - hangzhou
& Common   request   parameters
```

- Sample responses

  JSON format

```
{
    " RequestId ": " 34B08619 - 2636 - 49F9 - AB4E - CD8D347B1E  07
 "
}
```

6.1.12 ListJobInstanceWorkers

You can call this operation to query the running nodes of a job instance.

Request parameters

Field	Type	Required	Default value	Description
RegionId	String	Yes	None	
JobInstanceId	String	Yes	None	The ID of the job instance.

Response parameters

Field	Type	Description
JobInstanceWorkers	Array<JobInstanceWorker>	The information about the running nodes of the job instance.

Examples

- Sample requests

```
 https :// emr . aliyuncs . com /? Action = ListJobIns  tanceWorke
 rs
& JobInstanc  eId = 500006685
& RegionId = cn - hangzhou
```

```
& Common   request   parameters
```

- **Sample responses**

  JSON format

```
{
    " JobInstanc  eWorkers ": {
        " JobInstanc  eWorkerInf  o ": [
            {
                " Applicatio  nId ": " applicatio  n_14587913
 67888_0002 ",
                " ContainerI  nfo ": " container_  1458791367
 888_0002_0  2_000001 ",
                " InstanceIn  fo ": " 10 . 24 . 28 . 118 "
            },
            {
                " Applicatio  nId ": " applicatio  n_14587913
 67888_0002 ",
                " ContainerI  nfo ": " container_  1458791367
 888_0002_0  1_000002 ",
                " InstanceIn  fo ": " 10 . 24 . 28 . 11 "
            },
            {
                " Applicatio  nId ": " applicatio  n_14587913
 67888_0002 ",
                " ContainerI  nfo ": " container_  1458791367
 888_0002_0  2_000002 ",
                " InstanceIn  fo ": " 10 . 24 . 28 . 11 "
            },
            {
                " Applicatio  nId ": " applicatio  n_14587913
 67888_0002 ",
                " ContainerI  nfo ": " container_  1458791367
 888_0002_0  1_000001 ",
                " InstanceIn  fo ": " 10 . 24 . 28 . 118 "
            }
        ]
    },
    " RequestId ": " 0C6F1167 - 4807 - 4503 - B63F - 8EDCB26E0B  EE
 "
}
```

6.2 Job

6.2.1 CreateJob

You can call this operation to create a job.

Request parameters

Field	Type	Required	Default value	Description
Name	String	Yes	None	The name of the job.

Field	Type	Required	Default value	Description
Type	String	Yes	None	The type of the job. Valid values : HADOOP, SPARK, HIVE , PIG, SQOOP , SPARK_SQL, and SHELL.
RunParameter	String	Yes	None	The parameter of the job.
FailAct	String	Yes	None	The action to take after failure. STOP: Stops creating the job. CONTINUE : Continues creating the subsequent jobs.
RegionId	String	Yes	None	

Response parameters

Field	Type	Description
Id	String	The ID of the job.

Examples

- Sample requests

```
 https :// emr . aliyuncs . com /? Action = CreateJob
& Name = CreateJobA  piTest - SPARK
& Type = SPARK
& EnvParam =-- class % 20org . apache . spark . examples . SparkPi %
 20 -- master % 20yarn - client % 20 % E2 % 80 % 93num - executors %
 202 % 20 -- executor - memory % 202g % 20 -- executor - cores % 202
 % 20 / opt / apps / spark - 1 . 6 . 0 - bin - hadoop2 . 6 / lib /
 spark - examples *. jar % 2010
& FailAct = STOP
& amp ; RegionId = cn - hangzhou
```

```
& Common   request   parameters
```

- Sample responses

  JSON format

```
{
    " RequestId ": " 34B08619 - 2636 - 49F9 - AB4E - CD8D347B1E  07
 ",
    " InstanceId ": " J - 13A570B821  D4BAB3 "
}
```

6.2.2 ModifyJob

You can call this operation to modify a job.

Request parameters

Field	Type	Required	Default value	Description
Id	String	Yes	None	The ID of the job.
Name	String	Yes	None	The name of the job.
Type	String	Yes	None	The type of the job. Valid values : HADOOP, HIVE, PIG, SPARK, SQOOP , SPARK_SQL, and SHELL.
RunParameter	String	Yes	None	The parameter of the job.
FailAct	String	Yes	None	The action to take after failure. STOP: Stops modifying the job. CONTINUE : Continues modifying the subsequent jobs.
RegionId	String	Yes	None	

Response parameters

Common response parameters

Examples

- Sample requests

```
 https :// emr . aliyuncs . com /? Action = ModifyJob
& Id = J - 13A570B821  D4BAB3
& Name = test
& Type = HIVE
& EnvParam =- f % 20ossref :// emr / count . sql
& FailAct = STOP
& amp ; RegionId = cn - hangzhou
& Common   request   parameters
```

- Sample responses

  JSON format

```
{
    " RequestId ": " 34B08619 - 2636 - 49F9 - AB4E - CD8D347B1E  07
 "
}
```

6.2.3 DeleteJob

You can call this operation to delete a job.

Request parameters

Field	Type	Required	Default value	Description
Id	String	Yes	None	The ID of the job.
RegionId	String	Yes	None	The ID of the region.

Response parameters

Common response parameters

Examples

- Sample requests

```
 https :// emr . aliyuncs . com /? Action = DeleteJob
& Id = J - 13A570B821  D4BAB3
& RegionId = cn - hangzhou
```

```
& Common   request   parameters
```

- Sample responses

  JSON format

```
{
    " RequestId ": " 34B08619 - 2636 - 49F9 - AB4E - CD8D347B1E  07
 ",
}
```

6.2.4 DescribeJob

You can call this operation to query the details of a job.

Request parameters

Field	Type	Required	Default value	Description
Id	String	Yes	None	The ID of the job.
RegionId	String	Yes	None	The ID of the region.

Response parameters

Field	Type	Description
Id	String	The ID of the job.
Name	String	The name of the job.
Type	String	The type of the job. Valid values: HADOOP, SPARK, HIVE, PIG, SQOOP, SPARK_SQL, and SHELL.
RunParameter	String	The parameter of the job.
FailAct	String	The action to take after failure. STOP: Stops querying the details of a job. CONTINUE: Continues querying the details of the subsequent jobs.

Examples

- Sample requests

```
 https :// emr . aliyuncs . com /? Action = DescribeJo  b
& Id = J - 13A570B821  D4BAB3
```

```
& RegionId = cn - hangzhou
& Common   request   parameters
```

- Sample responses

  JSON format

```
{
    " RequestId ": " 34B08619 - 2636 - 49F9 - AB4E - CD8D347B1E  07
 ",
    " Id ": " J - 13A570B821  D4BAB3 ",
    " Name ": " test ",
    " FailAct ": " CONTINUE ",
    " Type ": " HIVE ",
    " RunParamet  er ": "- f % 20ossref :// emr / count . sql "
}
```

6.2.5 ListJobs

You can call this operation to query a list of jobs.

Request parameters

Field	Type	Required	Default value	Description
RegionId	String	Yes	None	
PageNumber	Integer	No	1	The page number to query. The minimum value is 1.
PageSize	Integer	No	10	The number of rows to display per page.

Response parameters

Field	Type	Description
Jobs	Array<Job>	The array of the jobs.
TotalCount	Integer	The total number of rows.
PageNumber	Integer	The current page number.
PageSize	Integer	The number of rows to display per page.

Examples

- **Sample requests**

```
 https :// emr . aliyuncs . com /? Action = ListJobs
& RegionId = cn - hangzhou
& PageNumber = 1
& PageSize = 20
& Common   request   parameters
```

- **Sample responses**

  JSON format

7 Data type

7.1 ClusterInfo

Name	Type	Description
Id	String	The ID of the cluster.
RegionId	String	The region in which the cluster has been deployed.
Name	String	The name of the cluster.
CreateType	String	ON-DEMAND: A cluster that is created on demand using the execution plan. MANUAL: A cluster that is created manually.
ChargeType	String	The billing method for the cluster. PREPAID: Subscription. POSTPAID: Pay-As-You-Go.
StartTime	Long	The creation time of the cluster in TIMESTAMP format. For example, 1459236255438.
StopTime	Long	The stop time of the cluster in TIMESTAMP format. For example, 1459236255438.
LogEnable	Boolean	Specifies whether to enable storing the logs.
LogPath	String	The path of the stored log.
Status	String	The status of the cluster.
HighAvailabilityEnable	Boolean	Enables or disables high availability.
RunningTime	Integer	Running time. Unit: seconds.
MasterNodeTotal	Integer	The total number of master nodes.

Name	Type	Description
CoreNodeTotal	Integer	The total number of core nodes.
FailReason	FailReason	The cause of the failure.
SoftwareInfo	Array<SoftwareInfo>	The information about the software.
ImageId	String	The ID of the used image.
SecurityGroupId	String	The ID of the security group.
SecurityGroupName	String	The name of the security group.
EcsInstances	Array<ECSInstance>	The information of the ECS instances.
BootstrapActions	List<BootstrapAction>	The list of bootstrap actions. The maximum number is 16. If the maximum number has been exceeded, only the first 16 lists are retained.
Configurations	String	The OSS file path. For the contents of this file, see the user manual.

7.2 EcsInstance

Name	Type	Description
NodeType	Integer	The type of the node. Valid values: master and core.

Name	Type	Description
InstanceType	String	The type of the instance. The types include ecs.s3.large (4-core 8G), ecs.m1.medium (4-core 16G), ecs.m1.xlarge (8-core 32G), ecs.c1.large (8-core 16G), ecs.c2.large (16-core 32G), ecs.c2.xlarge (16-core 64G), ecs.n1.large (4-core 8G), ecs.n2.large (4-core 16G), ecs.n1.xlarge (8-core 16G), ecs.n2.xlarge (8-core 32G), ecs.n1.3xlarge (16-core 32G), and ecs.n2.3xlarge (16-core 64G).
CpuCore	Integer	The number of cores in the CPU.
MemoryCapacity	Integer	The memory capacity.
DiskType	String	The type of the disk. Valid values: CLOUD, CLOUD_EFFICIENCY, and CLOUD_SSD.
DiskCapacity	Integer	The capacity of a single disk. The range is from 40 GiB to 2,000 GiB.
BandWidth	String	The bandwidth of the network.
Nodes	Array<Node>	The details of the nodes.

- Node

Name	Type	Description
ZoneId	String	The ID of the available zone.
InstanceId	String	The ID of the instance.
Status	String	Status
PubIp	String	The public network IP address.

Name	Type	Description
InnerIp	String	The private network IP address.
DiskInfos	Array<DiskInfo>	The information of the disks.

- DiskInfo

Name	Type	Required
Device	String	The path of the device.
DiskName	String	The name of the disk.
DiskId	String	The ID of the disk.
Type	String	The type of the disk.
Size	String	The capacity of the disk.

7.3 EcsOrder

Name	Type	Description
InstanceType	String	ecs.s2.large (2-core, 4 GB), ecs.s3.large (4-core, 8 GB), ecs.m1.medium (4-core , 16 GB), ecs.m1.xlarge (8-core, 32 GB), ecs.c1.large (8-core, 32 GB), ecs.c2.large (12-core, 32 GB), ecs.c2. xlarge (16-core, 64 GB), ecs .n1.medium (2-core, 4 GB), ecs.n1.large (4-core, 8 GB), ecs.n1.xlarge (8-core , 16 GB), ecs.n1.3xlarge (16-core, 32 GB), ecs.n1. 7xlarge (32-core, 64 GB), ecs.n2.large (4-core, 16 GB), ecs.n2.xlarge (8-core , 32 GB), ecs.n2.3xlarge (16-core, 64 GB), ecs.n2. 7xlarge (32-core, 128 GB), ecs.sn1.large (4-core, 8 GB), ecs.sn1.xlarge (8-core, 16 GB), ecs.sn1.3xlarge (16-core, 32 GB), ecs.sn1. 7xlarge (32-core, 64 GB), ecs.sn2.large (4-core, 16 GB), ecs.sn2.xlarge (8-core , 32 GB), ecs.sn2.3xlarge (16-core, 64 GB), ecs.sn2. 7xlarge (32-core, 128 GB)
NodeType	String	The type of the node. Valid values: MASTER and CORE .
DiskCapacity	Integer	The capacity of a single disk. The range is from 40 GB to 2,000 GB.
DiskCount	Integer	The number of disks. The range is from one to four (an integer).

Name	Type	Description
NodeCount	Integer	Currently, the default number of the master node is one. The minimum number of core nodes is one.

7.4 BootstrapAction

Name	Type	Required	Description
Name	String	Yes	The name of the bootstrap action.
Path	String	Yes	The path of the script file in OSS.
Arg	String	No	The required argument string for the script file.

7.5 ExecutionPlanInfo

Name	Type	Description
Id	String	The ID of the execution plan.
Parameter	String	The name of the execution plan.
CreateClusterOnDemand	Boolean	Indicates whether the execution plan is created on demand automatically.
Strategy	String	The method for implementing the execution plan. RUN_MANUALLY: indicates that you can implement an execution plan manually . SCHEDULE: indicates that an execution plan is automatically implemente d at the scheduled time.

Name	Type	Description
Status	String	The status of the schedule.
StartTime	String	The start time of the effective period of the schedule.
TimeUnit	String	The unit of the time interval of the periodic schedule. Valid values: DAY and HOUR.
TimeInterval	String	The time interval. If you specify DAY for TimeUnit, the value of this parameter must be 1. If you specify HOUR for TimeUnit, the value of this parameter ranges from 1 to 23.

7.6 ExecutionPlanInstance

Name	Type	Description
Id	String	The instance ID of the execution plan.
ExecutionPlanId	String	The ID of the execution plan.
ExecutionPlanName	String	The name of the execution plan.
StartTime	Long	The start time.
RunTime	Integer	The running time. Unit: seconds.
ClusterId	String	The ID of the cluster.
ClusterName	String	The name of the cluster.
ClusterType	String	The cluster type.
Status	String	The status.

7.7 JobInfo

Name	Type	Description
Id	String	Job ID
Name	String	Job name
Type	String	Job type
RunParameter	String	Job running parameters
FailAct	String	Processing method when the job fails

7.8 JobInstance

Name	Type	Description
Id	String	The ID of the job instance.
JobName	String	The name of the job.
StartTime	Long	The start time of the job instance.
RunTime	Integer	The running time of the job instance. Unit: Seconds .
JobType	String	The type of the job.
JobId	String	The ID of the job.
ClusterId	String	The ID of the cluster.
Status	String	The status of the job instance.

7.9 JobInstanceWorker

Name	Type	Description
ApplicationId	String	The ID of the application.
InstanceInfo	String	The private network IP address of the node.
ContainerInfo	String	The ID of the container.

7.10 SoftwareInfo

Name	Type	Description
EmrVer	String	The version number of E-MapReduce.
ClusterType	String	The type of the cluster.
Softwares	Array<Software>	The information about the software.

Software

Name	Type	Description
Name	String	The name of the software.
Version	String	The version of the software .

7.11 FailReason

The cause of failure.

Name	Type	Description
Error code	String	The error code.
ErrorMsg	String	The error message.
RequestId	String	The ID of the request.

8 Enumerations

Cluster

- createType (the type of the cluster creation):

Enumerator	Description
ON-DEMAND	Creates a cluster on demand.
MANUAL	Creates a cluster manually.

- clusterType (The type of the cluster):

Enumerator	Description
HADOOP	Hadoop
KAFKA	Kafka
GATEWAY	Gateway
DRUID	Druid
Zoolokeeper	ZooKeeper
DATA_SCIENCE	Data Science

- clusterStatus (the status of the cluster):

Enumerator	Description
CREATING	The cluster is being created.
CREATE_FAILED	The cluster fails to be created.
RUNNING	The cluster is running.
IDLE	The cluster is idle.
RELEASING	The cluster is being released.
RELEASE_FAILED	The cluster fails to be released.
RELEASED	The cluster has been released.
WAIT_FOR_PAY	The cluster has not been paid.
ABNORMAL	The status of the cluster is abnormal.

- DiskType (the type of the disk):

Enumerator	Description
CLOUD	Cloud disk.

Enumerator	Description
CLOUD_EFFICIENCY	Ultra disk.
CLOUD_SSD	SSD disk.

- ecs instance status

Enumerator	Description
ABNORMAL	The status of the instance is abnormal.
NORMAL	The status of the instance is normal.
RESIZING	The instance is being resized.
INITIALIZING	The instance is being initialized.
RELEASED	The instance has been released.

Execution plan

- executionPlan Instance Status (the status of the execution plan instance):

Enumerator	Description
WF_INSTNACE_READY	The instance is not running.
WF_INSTNACE_RUNNING	The instance is running.
WF_INSTNACE_FAILED	The instance fails to run.
WF_INSTNACE_SUCCESS	The instance runs successfully.

- executionPlan status (the status of the execution plan):

Enumerator	Description
SCHEDULING	The execution plan is being scheduled.
NO_SCHEDULE	The execution plan has not been scheduled. Either the scheduling of the execution plan is paused or the execution plan is executed manually.

- Strategy

Enumerator	Description
RUN_MANUALLY	Manual execution.
SCHEDULE	Periodic scheduling.

- timeUnit (the unit of the time interval for periodic scheduling)

Enumerator	Description
DAY	The day.
HOUR	The hour.

Job

- jobType (the type of the job):

Enumerator	Description
SPARK	A Spark job.
Apache Hadoop.	A Hadoop MapReduce job.
HIVE	A Hive job.
PIG	A PIG job.

- jobFailAct (The action to take after failure):

Enumerator	Description
STOP	Stops running the job.
CONTINUE	Continues to run the subsequent jobs.

- job instance status

Enumerator	Description
JOB_INSTANCE_WAITING	The instance is waiting to run.
JOB_INSTANCE_SUBMISSION_FAILED	The instance fails to be submitted.
JOB_INSTANCE_RUNNING	Running
JOB_INSTANCE_SUCCESS	Succeeded
JOB_INSTANCE_FAILED	Failed
JOB_INSTANCE_CANCELING	The instance is being canceled.
JOB_INSTANCE_CANCELED	The instance has been canceled.
JOB_INSTANCE_CANCEL_FAILED	The instance fails to be canceled.