

Alibaba Cloud E-MapReduce

API Reference

Issue: 20190611

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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 information, 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 <code>cd / d C :/ windows</code> command to enter the Windows system folder.
<i>Italics</i>	It is used for parameters and variables.	<code>bae log list --instanceid Instance_ID</code>
[] or [a b]	It indicates that it is an optional value, and only one item can be selected.	<code>ipconfig [-all -t]</code>

Style	Description	Example
<code>{}</code> or <code>{a b}</code>	It indicates that it is a required value, and only one item can be selected.	<code>switch {stand slave}</code>

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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 percentEncode ( String value )
throws UnsupportedOperationException {
    return value != null ? URLEncoder . encode ( value ,
    ENCODING ). replace ( "+", "% 20 "). replace ( "*", "% 2A ").
    replace ( "% 7E ", "~") : null ;
}
```

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

```
StringToSign =
  HTTPMethod + "&" +
  percentEncode ("/") + "&" +
  percentEncode ( CanonicalizedQueryString )
```

In this formulation,

- HTTPMethod is the HTTP method (such as GET) used for request submission.
 - percentEncode ("/") is the encoded value (%2F) for the character “/” according to the URL encoding rules described in 1.ii.
 - percentEncode (CanonicalizedQueryString) 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&AccessKeyId=testid&Action=DescribeRegions&SignatureMethod=HMAC-SHA1&SignatureNonce=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 8YG0juE .
```

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 8YG0juE
% 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 = Pc5WB8gokVn0xfeu%2FZV%2BiNM1dgI%3D
& SignatureMethod = HMAC-SHA1
& SignatureNonce = 15215528852396
& SignatureVersion = 1.0
& AccessKeyId = 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 ",
  "successResponse ": 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. .HostGroupN ame	String	Yes	Master Instance Group	The name of the instance group.
HostGroup.N. .HostGroupT ype	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 whether 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-D7958B72E59BAB88	The ID of the cluster.

Examples

• Sample requests

```

/? ClusterType = HADOOP
& EmrVer = EMR - 3 . 15 . 0
& Name = bi_hadoop
& RegionId = cn - hangzhou
& AccessKeyId = LTAI8ljWyu 7y ****
& AutoRenew = false
& ChargeType = PostPaid
& DepositType = HALF_MANAGED
& HighAvailabilityEnabled = true
& InstanceGeneration = ecs - 3
& IoOptimized = true
& IsOpenPublicIp = true
& KeyPairName =
& LogPath = oss // bucketname / path
& MachineType = ECS
& MasterPwd = pwd
& NetType = vpc
& OptionSoftwareList . 1 =[" ZOOKEEPER "," LIVY "]
& Period = 30
& SecurityGroupIds = sg - bp1id7ajv8 3kmqwq ****
& SecurityGroupName = emr - sg
& SshEnable =
& UseLocalMetadata =
& UserDefinedEmrEcsRole = AliyunEmrEcsDefaultRole
& VpcId = vpc - bp1l4urd87 xlh7i4b ****
& VSwitchId = vsw - bp10tvjyc7 7psy0z5 ****
& ZoneId = cn - hangzhou - e
& BootstrapAction . 1 . Arg =-- a = b
& BootstrapAction . 1 . Name = name
& BootstrapAction . 1 . Path = oss :// bucket / path
& Config . 1 . ConfigKey =
& Config . 1 . ConfigValue =
& Config . 1 . Encrypt =
& Config . 1 . FileName =
& Config . 1 . Replace =
& Config . 1 . ServiceName =
& HostGroup . 1 . AutoRenew = false
& HostGroup . 1 . ChargeType = PostPaid
& HostGroup . 1 . ClusterId =
& HostGroup . 1 . Comment =
& HostGroup . 1 . CreateType =
& HostGroup . 1 . DiskCapacity = 80
& HostGroup . 1 . DiskCount = 4
& HostGroup . 1 . DiskType = CLOUD_SSD
& HostGroup . 1 . GpuDriver =
& HostGroup . 1 . HostGroupId =
& HostGroup . 1 . HostGroupName = Master Instance Group
& HostGroup . 1 . HostGroupType = MASTER
& HostGroup . 1 . InstanceType = ecs . mn4 . 2xlarge
& HostGroup . 1 . InstanceCount = 1
& HostGroup . 1 . Period = 30
& HostGroup . 1 . SysDiskCapacity = 80

```

```
& HostGroup . 1 . SysDiskType = CLOUD_SSD
& HostGroup . 1 . VSwitchId = vsw - bp10tvjyc7 7psy0z5 ****
& UserInfo . 1 . Password = pwd
& UserInfo . 1 . UserId = 12345
& UserInfo . 1 . UserName =
& AuthorizeContent =
& Configurations =
& EasEnable = false
& InitCustomHiveMetaDB =
& RelatedClusterId =
& UseCustomHiveMetaDB =
& WhiteListType =
&< 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 ",
  " successResponse ": 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	<code>[{"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"}}]</code>	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-bp1l4urd87x1h7i4b****	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

```

/? ClusterType = HADOOP
& EmrVer = EMR - 3 . 15 . 0
& RegionId = cn - hangzhou
& TemplateName = templateName me2
& AccessKeyId = LTAI8ljWyu 7y ****
& AutoRenew = false
& Configurations = [{"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"}}]
& DepositType = HALF_MANAGED
& EasEnable = true
& HighAvailabilityEnabled = true
& InitCustomHiveMetaDb =
& InstanceGeneration =
& IoOptimized = true
& IsOpenPublicIp = true
& LogPath = oss :// bucket / path
& MachineType =
& MasterPwd = pwd
& NetType = vpc
& OptionSoftwareList . 1 =["HBASE ","FLINK "]
& Period = 36
& SecurityGroupId = sg - bp1id7ajv8 3kmqwq ****
& SecurityGroupName = sg - name
& SshEnable = true
& UseCustomHiveMetaDb = false
& UseLocalMetaDb = false
& UserDefinedEmrEcsRole = AliyunEmrEcsDefaultRole
& VpcId = vpc - bp1l4urd87 xlh7i4b ****
& VSwitchId = vsw - bp10tvjyc7 7psy0z5 ****
& ZoneId = cn - hangzhou - b
& BootstrapAction . 1 . Arg =
& BootstrapAction . 1 . Name =
& BootstrapAction . 1 . Path =
& Config . 1 . ConfigKey =
& Config . 1 . ConfigValue =
& Config . 1 . Encrypt =
& Config . 1 . FileName =
& Config . 1 . Replace =
& Config . 1 . ServiceName =
& HostGroup . 1 . AutoRenew = false
& HostGroup . 1 . ChargeType = PostPaid
& HostGroup . 1 . ClusterId =
& HostGroup . 1 . Comment =
& HostGroup . 1 . CreateType =
& HostGroup . 1 . DiskCapacity = 80
& HostGroup . 1 . DiskCount = 1
& HostGroup . 1 . DiskType = CLOUD_EFFICIENCY
& HostGroup . 1 . HostGroupId =
& HostGroup . 1 . HostGroupName = Master Instance Group
& HostGroup . 1 . HostGroupType = MASTER
& HostGroup . 1 . InstanceType = ecs . g5 . xlarge
& HostGroup . 1 . MultiInstanceTypes =
& HostGroup . 1 . NodeCount = 2
& HostGroup . 1 . Period = 30
& HostGroup . 1 . SysDiskCapacity = 80
& HostGroup . 1 . SysDiskType = 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-35498C56B3 F12002	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-35498C56B3 F12002	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
& AccessKeyId = 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 ",
  "successResponse ": 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	<pre>{ "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" } } }</pre>	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 configurat ion item.
ConfigKey	String	fs.trash.interval	The key of the custom configurat ion item.
ConfigValue	String	60	The value of the custom configurat ion 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  
& AccessKeyId = LTAI8ljWyu 7y *****  
&< Common request parameters >
```

- Successful response examples

JSON format

```
{
```

```

" requestId ":" 29A1D3B7 - 661C - 4FCD - 8577 - DE93C8F6CA 55 ",
" templateInfo ":{
  " bootstrapActionList ":[],
  " clusterType ":" HADOOP ",
  " configList ":[],
  " createSource ":" 2 ",
  " depositType ":" HALF_MANAGED ",
  " easEnable ": false ,
  " emrVer ":" EMR - 3 . 16 . 0 ",
  " gmtCreate ": 1543765033 000 ,
  " gmtModified ": 1543765033 000 ,
  " highAvailabilityEnabled ": false ,
  " hostGroupList ":[
    {
      " chargeType ":" PostPaid ",
      " diskCapacity ": 80 ,
      " diskCount ": 1 ,
      " diskType ":" CLOUD_EFFICIENCY ",
      " hostGroupId ":"",
      " hostGroupName ":" Master instance group ",
      " hostGroupType ":" MASTER ",
      " instanceType ":" ecs . n4 . xlarge ",
      " nodeCount ": 1
    },
    {
      " chargeType ":" PostPaid ",
      " diskCapacity ": 80 ,
      " diskCount ": 4 ,
      " diskType ":" CLOUD_EFFICIENCY ",
      " hostGroupId ":"",
      " hostGroupName ":" Core instance group ",
      " hostGroupType ":" CORE ",
      " instanceType ":" ecs . n4 . xlarge ",
      " nodeCount ": 2
    }
  ],
  " id ":" CT - 35498C56B3 F12002 ",
  " ioOptimized ": true ,
  " isOpenPublicIp ": true ,
  " logEnable ": false ,
  " machineType ":" ECS ",
  " masterNodeTotal ": 0 ,
  " netType ":" vpc ",
  " securityGroupId ":" sg - bp1id7ajv8 3kmqwq2isx ",
  " securityGroupName ":" emxxx ",
  " softwareInstallList ":[
    " FLUME ",
    " FLINK "
  ],
  " sshEnable ": false ,
  " templateName ":" template_name_2 ",
  " useLocalMetaDb ": true ,
  " userDefinedEmrEcsRole ":" AliyunEmrEcsDefaultRole ",
  " 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 ",
  "successResponse ": 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-E331B8AC12 BF5DB4	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-E331B8AC12 BF5DB4	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.
MasterNodeInService	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.
ShowSoftwareInterface	Boolean	true	Indicates whether the quick link page is displayed.
CreateResource	String	ECM_EMR	The label of the cluster.
VpcId	String	vpc-bp1l4urd87xlh7i4bju4h	The ID of the VPC.
VSwitchId	String	vsw-bp1l4qjbyggil4pow064fg	The ID of the VSwitch.
NetType	String	vpc	The network type of the cluster.
UserDefinedEmrEcsRole	String	AliyunEmrEcsDefaultRole	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 billing 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 information of the cluster associated by the Gateway.
ClusterId	String	C-D7958B72E59BAB88	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
& AccessKeyId = LTAI8ljWyu 7y ****
&< Commin request parameters >
```

• Successful response examples

JSON format

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

```

" AutoScalingSpotWithLimitAllowed ": true ,
" BootstrapActionList ":{
  " BootstrapAction ":[]
},
" BootstrapFailed ": false ,
" ChargeType ":" PostPaid ",
" Configurations ":"",
" CoreNodeInService ": 2 ,
" CoreNodeTotal ": 2 ,
" CreateResource ":" ECM_EMR ",
" CreateType ":" MANUAL ",
" EasEnable ": true ,
" GatewayClusterInfoList ":{
  " GatewayClusterInfo ":[]
},
" HighAvailabilityEnabled ": true ,
" HostGroupList ":{
  " HostGroup ":[
    {
      " ChargeType ":" PostPaid ",
      " CpuCore ": 8 ,
      " DiskCapacity ": 80 ,
      " DiskCount ": 1 ,
      " DiskType ":" CLOUD_SSD ",
      " HostGroupId ":" G - 79AA94922D FBE2E2 ",
      " HostGroupName ":" Master instance group ",
      " HostGroupType ":" MASTER ",
      " InstanceType ":" ecs . n4 . 2xlarge ",
      " MemoryCapacity ": 16 ,
      " NodeCount ": 2 ,
      " Nodes ":{
        " Node ":[
          {
            " CreateTime ":" 1543804242 000 ",
            " DaemonInfos ":{
              " 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 "
                }
              ]
            },
            " EmrExpiredTime ":" null ",
            " ExpiredTime ":" 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 ",
            " DaemonInfos ":{

```

```

    " 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 ",
  " ExpiredTime ":" 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 ,
  " DiskCapacity ": 80 ,
  " DiskCount ": 4 ,
  " DiskType ":" CLOUD_SSD ",
  " HostGroupId ":" G - 9D08642FB8 CE8CFE ",
  " HostGroupName ":" Core instance group ",
  " HostGroupType ":" CORE ",
  " InstanceType ":" ecs . n4 . 2xlarge ",
  " MemoryCapacity ": 16 ,
  " NodeCount ": 2 ,
  " Nodes ":{
    " Node ":[
      {
        " CreateTime ":" 1543804244 000 ",
        " DaemonInfos ":{
          " 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 ",
" ExpiredTime ":" 2099 - 12 - 31T15 : 59Z ",
" InnerIp ":" 192 . 168 . 128 . 237 ",
" InstanceId ":" i - bp1gyhphkj  plgljrsw5f ",
" PubIp ":"",
" Status ":" NORMAL ",
" ZoneId ":" cn - hangzhou - b "
},
{
  " CreateTime ":" 1543804247  000 ",
  " DaemonInfos ":{
    " 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 "
      }
    ]
  }
]

```

```

    },
    "EmrExpiredTime": "null",
    "ExpiredTime": "2099-12-31T15:59Z",
    "InnerIp": "192.168.128.238",
    "InstanceId": "i-bp1ftve3lzvpm16hp7lp",
    "PubIp": "",
    "Status": "NORMAL",
    "ZoneId": "cn-hangzhou-b"
  }
}
]
},
{
  "Id": "C-E331B8AC12BF5DB4",
  "ImageId": "m-bp1l8knl07yk88y8s6cj",
  "IoOptimize": "true",
  "LocalMetaD": "true",
  "MasterNodeInService": 2,
  "MasterNodeTotal": 0,
  "Name": "df-test-safe",
  "NetType": "vpc",
  "RegionId": "cn-hangzhou",
  "ResizeDiskEnable": "true",
  "RunningTime": 1102,
  "SecurityGroup": "sg-bp1bvompzxgx7q0lg7oy",
  "SecurityGroupName": "emr-default-securitygroup",
  "ShowSoftwareInterfac": "false",
  "SoftwareInfo": {
    "ClusterType": "HADOOP",
    "EmrVer": "EMR-3.16.0_pre",
    "Softwares": {
      "Software": [
        {
          "DisplayName": "HDFS",
          "Name": "HDFS",
          "OnlyDisplay": "false",
          "StartType": 1,
          "Version": "2.7.2-1.3.2"
        },
        {
          "DisplayName": "YARN",
          "Name": "YARN",
          "OnlyDisplay": "false",
          "StartType": 1,
          "Version": "2.7.2-1.3.2"
        },
        {
          "DisplayName": "Hive",
          "Name": "HIVE",
          "OnlyDisplay": "false",
          "StartType": 1,
          "Version": "2.3.3-1.0.3"
        },
        {
          "DisplayName": "Ganglia",
          "Name": "GANGLIA",
          "OnlyDisplay": "false",
          "StartType": 1,
          "Version": "3.7.2"
        },
        {
          "DisplayName": "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 - bp1lqjbygg il4pow064f g ",
  " VpcId ":" vpc - bp1l4urd87 xlh7i4bj4 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
& AccessKeyId = LTAI8LjWyu 7y ****
& EmrVersion = EMR - 3 . 15 . 0
```

< Common request parameters >

· Successful response examples

JSON format

```
{
  "emrMainVersion": {
    "clusterTypeInfoList": [
      {
        "clusterType": "HADOOP",
        "serviceInfoList": [
          {
            "display": true,
            "mandatory": false,
            "serviceName": "Livy",
            "serviceVersion": "0.5.0",
            "serviceDisplayName": "LIVY"
          },
          {
            "display": true,
            "mandatory": false,
            "serviceName": "Superset",
            "serviceVersion": "0.27.0",
            "serviceDisplayName": "SUPERSET"
          },
          {
            "display": true,
            "mandatory": false,
            "serviceName": "Ranger",
            "serviceVersion": "1.0.0",
            "serviceDisplayName": "RANGER"
          },
          {
            "display": true,
            "mandatory": false,
            "serviceName": "Flink",
            "serviceVersion": "1.4.0-1.0.1",
            "serviceDisplayName": "FLINK"
          },
          {
            "display": true,
            "mandatory": true,
            "serviceName": "Knox",
            "serviceVersion": "0.13.0-0.0.3",
            "serviceDisplayName": "KNOX"
          },
          {
            "display": true,
            "mandatory": true,
            "serviceName": "ApacheDS",
            "serviceVersion": "2.0.0",
            "serviceDisplayName": "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 ,

```

```

1 . 0 . 0 ",
"
    " serviceDis playName ":" Sqoop ",
    " serviceDis playVersio n ":" 1 . 4 . 7 -
    " 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 ,
    " serviceDis playName ":" HBase ",
    " serviceDis playVersio n ":" 1 . 1 . 1 -
1 . 0 . 0 ",
    " serviceNam e ":" HBASE ",
    " serviceVer sion ":" 1 . 1 . 1 - 1 . 0 . 0
"
    },
    {
    " display ": true ,
    " mandatory ": true ,
    " serviceDis playName ":" Hive ",
    " serviceDis playVersio n ":" 2 . 3 . 3 -
1 . 0 . 2 ",
    " serviceNam e ":" HIVE ",
    " serviceVer sion ":" 2 . 3 . 3 - 1 . 0 . 2
"
    },
    {
    " display ": true ,
    " mandatory ": true ,
    " serviceDis playName ":" YARN ",
    " serviceDis playVersio n ":" 2 . 7 . 2 -
1 . 3 . 1 ",
    " serviceNam e ":" YARN ",

```

```

"      " serviceVer  sion ":" 2 . 7 . 2 - 1 . 3 . 1
      },
      {
        " display ":" true ,
        " mandatory ":" true ,
        " serviceDis  playName ":" HDFS ",
        " serviceDis  playVersio  n ":" 2 . 7 . 2 -
1 . 3 . 1 ",
        " serviceNam  e ":" HDFS ",
        " serviceVer  sion ":" 2 . 7 . 2 - 1 . 3 . 1
"
      },
      {
        " display ":" true ,
        " mandatory ":" false ,
        " serviceDis  playName ":" ZooKeeper ",
        " serviceDis  playVersio  n ":" 3 . 4 . 13
",
        " serviceNam  e ":" ZOOKEEPER ",
        " serviceVer  sion ":" 3 . 4 . 13 "
      },
      {
        " display ":" true ,
        " mandatory ":" false ,
        " serviceDis  playName ":" Oozie ",
        " serviceDis  playVersio  n ":" 4 . 2 . 0 ",
        " serviceNam  e ":" OOZIE ",
        " serviceVer  sion ":" 4 . 2 . 0 "
      },
      {
        " display ":" true ,
        " mandatory ":" false ,
        " serviceDis  playName ":" Presto ",
        " serviceDis  playVersio  n ":" 0 . 208 ",
        " serviceNam  e ":" PRESTO ",
        " serviceVer  sion ":" 0 . 208 "
      },
      {
        " display ":" false ,
        " mandatory ":" true ,
        " serviceDis  playName ":" HAProxy ",
        " serviceDis  playVersio  n ":" 1 . 5 . 18
",
        " serviceNam  e ":" HAPROXY ",
        " serviceVer  sion ":" 1 . 5 . 18 "
      },
      {
        " display ":" true ,
        " mandatory ":" false ,
        " serviceDis  playName ":" Impala ",
        " serviceDis  playVersio  n ":" 2 . 10 . 0 -
1 . 0 . 0 ",
        " serviceNam  e ":" IMPALA ",
        " serviceVer  sion ":" 2 . 10 . 0 - 1 . 0 .
0 "
      },
      {
        " display ":" false ,
        " mandatory ":" true ,
        " serviceDis  playName ":" EMRDOCTOR ",
        " serviceDis  playVersio  n ":" 1 . 0 . 0 ",
        " serviceNam  e ":" EMRDOCTOR ",
        " serviceVer  sion ":" 1 . 0 . 0 "
      }

```

```

    },
    {
      "display ": false ,
      "mandatory ": true ,
      "serviceDisplay Name ": " EMR - MONITOR ",
      "serviceDisplay Version ": " 1 . 0 . 0 ",
      "serviceName ": " EMR - MONITOR ",
      "serviceVersion ": " 1 . 0 . 0 "
    },
    {
      "display ": true ,
      "mandatory ": true ,
      "serviceDisplay Name ": " Ganglia ",
      "serviceDisplay Version ": " 3 . 7 . 2 ",
      "serviceName ": " GANGLIA ",
      "serviceVersion ": " 3 . 7 . 2 "
    }
  ]
},
{
  "clusterType ": " DRUID ",
  "serviceInfoList ": [
    {
      "display ": true ,
      "mandatory ": true ,
      "serviceDisplay Name ": " Superset ",
      "serviceDisplay Version ": " 0 . 27 . 0 ",
      "serviceName ": " SUPERSET ",
      "serviceVersion ": " 0 . 27 . 0 "
    },
    {
      "display ": true ,
      "mandatory ": true ,
      "serviceDisplay Name ": " Druid ",
      "serviceDisplay Version ": " 0 . 12 . 3 -
1 . 0 . 0 ",
      "serviceName ": " DRUID ",
      "serviceVersion ": " 0 . 12 . 3 - 1 . 0 .
0 "
    },
    {
      "display ": true ,
      "mandatory ": true ,
      "serviceDisplay Name ": " ApacheDS ",
      "serviceDisplay Version ": " 2 . 0 . 0 ",
      "serviceName ": " APACHEDS ",
      "serviceVersion ": " 2 . 0 . 0 "
    },
    {
      "display ": false ,
      "mandatory ": true ,
      "serviceDisplay Name ": " MySQL ",
      "serviceDisplay Version ": " 5 . 5 . 52 ",
      "serviceName ": " MYSQL ",
      "serviceVersion ": " 5 . 5 . 52 "
    },
    {
      "display ": true ,
      "mandatory ": true ,
      "serviceDisplay Name ": " YARN ",
      "serviceDisplay Version ": " 2 . 7 . 2 -
1 . 3 . 1 ",

```

```

"
    " serviceName ": " YARN ",
    " serviceVersion ": " 2 . 7 . 2 - 1 . 3 . 1
  },
  {
    " display ": true ,
    " mandatory ": false ,
    " serviceName ": " HDFS ",
    " serviceVersion ": " 2 . 7 . 2 -
1 . 3 . 1 ",
    " serviceName ": " HDFS ",
    " serviceVersion ": " 2 . 7 . 2 - 1 . 3 . 1
  },
  {
    " display ": true ,
    " mandatory ": true ,
    " serviceName ": " ZooKeeper ",
    " serviceVersion ": " 3 . 4 . 13
  },
  {
    " serviceName ": " ZOOKEEPER ",
    " serviceVersion ": " 3 . 4 . 13 "
  },
  {
    " display ": false ,
    " mandatory ": true ,
    " serviceName ": " EMRDOCTOR ",
    " serviceVersion ": " 1 . 0 . 0 ",
    " serviceName ": " EMRDOCTOR ",
    " serviceVersion ": " 1 . 0 . 0 "
  },
  {
    " display ": false ,
    " mandatory ": true ,
    " serviceName ": " EMR - MONITOR ",
    " serviceVersion ": " 1 . 0 . 0 ",
    " serviceName ": " EMR - MONITOR ",
    " serviceVersion ": " 1 . 0 . 0 "
  },
  {
    " display ": true ,
    " mandatory ": true ,
    " serviceName ": " Ganglia ",
    " serviceVersion ": " 3 . 7 . 2 ",
    " serviceName ": " GANGLIA ",
    " serviceVersion ": " 3 . 7 . 2 "
  }
],
},
{
  " clusterType ": " DATA_SCIENCE ",
  " serviceInfoList ": [
    {
      " display ": false ,
      " mandatory ": true ,
      " serviceName ": " MySQL ",
      " serviceVersion ": " 5 . 5 . 52
    },
    {
      " serviceName ": " MYSQL ",
      " serviceVersion ": " 5 . 5 . 52 "
    },
    {
      " display ": true ,
      " mandatory ": true ,

```

```

    " serviceDis playName ":" Jupyter ",
    " serviceDis playVersio n ":" 4 . 4 . 0 ",
    " serviceNam e ":" JUPYTER ",
    " serviceVer sion ":" 4 . 4 . 0 "
  },
  {
    " display ": true ,
    " mandatory ": true ,
    " serviceDis playName ":" ANALYTICS - ZOO
",
    " serviceDis playVersio n ":" 0 . 2 . 0 ",
    " serviceNam e ":" ANALYTICS - ZOO ",
    " serviceVer sion ":" 0 . 2 . 0 "
  },
  {
    " 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 ": true ,
    " mandatory ": true ,
    " serviceDis playName ":" Tensorflow On
YARN ",
    " serviceDis playVersio n ":" 1 . 0 . 0 ",
    " serviceNam e ":" TENSORFLOW - ON - YARN
",
    " serviceVer sion ":" 1 . 0 . 0 "
  },
  {
    " display ": true ,
    " mandatory ": true ,
    " serviceDis playName ":" Tensorflow ",
    " serviceDis playVersio n ":" 1 . 8 . 0 ",
    " serviceNam e ":" TENSORFLOW ",
    " serviceVer sion ":" 1 . 8 . 0 "
  },
  {
    " display ": true ,
    " mandatory ": true ,
    " serviceDis playName ":" Zeppelin ",
    " serviceDis playVersio n ":" 0 . 8 . 0 ",
    " serviceNam e ":" ZEPPELIN ",
    " serviceVer sion ":" 0 . 8 . 0 "
  },
  {
    " display ": true ,
    " mandatory ": false ,
    " serviceDis playName ":" HUE ",
    " serviceDis playVersio n ":" 4 . 1 . 0 ",
    " serviceNam e ":" HUE ",

```

```

    " serviceVer  sion ":" 4 . 1 . 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 ,
    " serviceDis  playName ":" Hive ",
    " serviceDis  playVersio  n ":" 2 . 3 . 3 -
1 . 0 . 2 ",
    " serviceNam  e ":" HIVE ",
    " serviceVer  sion ":" 2 . 3 . 3 - 1 . 0 . 2
"
  },
  {
    " display ": true ,
    " mandatory ": true ,
    " serviceDis  playName ":" YARN ",
    " serviceDis  playVersio  n ":" 2 . 7 . 2 -
1 . 3 . 1 ",
    " serviceNam  e ":" YARN ",
    " serviceVer  sion ":" 2 . 7 . 2 - 1 . 3 . 1
"
  },
  {
    " display ": true ,
    " mandatory ": true ,
    " serviceDis  playName ":" HDFS ",
    " serviceDis  playVersio  n ":" 2 . 7 . 2 -
1 . 3 . 1 ",
    " serviceNam  e ":" HDFS ",
    " serviceVer  sion ":" 2 . 7 . 2 - 1 . 3 . 1
"
  },
  {
    " display ": true ,
    " mandatory ": true ,
    " serviceDis  playName ":" ZooKeeper ",
    " serviceDis  playVersio  n ":" 3 . 4 . 13
",
    " serviceNam  e ":" ZOOKEEPER ",
    " serviceVer  sion ":" 3 . 4 . 13 "
  },
  {
    " display ": true ,
    " mandatory ": true ,
    " serviceDis  playName ":" Ganglia ",
    " serviceDis  playVersio  n ":" 3 . 7 . 2 ",
    " serviceNam  e ":" GANGLIA ",
    " serviceVer  sion ":" 3 . 7 . 2 "
  }
]
},
{
  " clusterTyp  e ":" KAFKA ",
  " serviceInf  oList ":[

```

```

{
  "display ": true ,
  "mandatory ": false ,
  "serviceDis playName ":" Ranger ",
  "serviceDis playVersio n ":" 1 . 0 . 0 ",
  "serviceNam e ":" RANGER ",
  "serviceVer sion ":" 1 . 0 . 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 ": true ,
  "serviceDis playName ":" Kafka - Manager
",
  "serviceDis playVersio n ":" 1 . 3 . 3 .
16 - 1 . 1 . 0 ",
  "serviceNam e ":" KAFKA - MANAGER ",
  "serviceVer sion ":" 1 . 3 . 3 . 16 - 1 .
1 . 0 "
},
{
  "display ": true ,
  "mandatory ": true ,
  "serviceDis playName ":" Kafka ",
  "serviceDis playVersio n ":" 2 . 11 - 1 .
0 . 1 - 1 . 3 . 0 ",
  "serviceNam e ":" KAFKA ",
  "serviceVer sion ":" 2 . 11 - 1 . 0 . 1 -
1 . 3 . 0 "
},
{
  "display ": true ,
  "mandatory ": true ,
  "serviceDis playName ":" ZooKeeper ",
  "serviceDis playVersio n ":" 3 . 4 . 13
",
  "serviceNam e ":" ZOOKEEPER ",
  "serviceVer sion ":" 3 . 4 . 13 "
},
{
  "display ": false ,
  "mandatory ": true ,
  "serviceDis playName ":" EMRDOCTOR ",
  "serviceDis playVersio n ":" 1 . 0 . 0 ",
  "serviceNam e ":" EMRDOCTOR ",
  "serviceVer sion ":" 1 . 0 . 0 "
},
{
  "display ": false ,
  "mandatory ": true ,
  "serviceDis playName ":" EMR - MONITOR ",
  "serviceDis playVersio n ":" 1 . 0 . 0 ",
  "serviceNam e ":" EMR - MONITOR ",
  "serviceVer sion ":" 1 . 0 . 0 "
},
{

```

```

        " display ": true ,
        " mandatory ": true ,
        " serviceDisplay": " Ganglia ",
        " serviceDisplayVersion": " 3 . 7 . 2 ",
        " serviceName": " GANGLIA ",
        " serviceVersion": " 3 . 7 . 2 "
    }
}
},
{
    " clusterType": " ZOOKEEPER ",
    " serviceInfoList": [
        {
            " display ": false ,
            " mandatory ": false ,
            " serviceDisplay": " YARN ",
            " serviceDisplayVersion": " 2 . 7 . 2 -
1 . 3 . 1 ",
            " serviceName": " YARN ",
            " serviceVersion": " 2 . 7 . 2 - 1 . 3 . 1
"
        },
        {
            " display ": true ,
            " mandatory ": true ,
            " serviceDisplay": " ZooKeeper ",
            " serviceDisplayVersion": " 3 . 4 . 13
",
            " serviceName": " ZOOKEEPER ",
            " serviceVersion": " 3 . 4 . 13 "
        },
        {
            " display ": false ,
            " mandatory ": true ,
            " serviceDisplay": " EMR - MONITOR ",
            " serviceDisplayVersion": " 1 . 0 . 0 ",
            " serviceName": " EMR - MONITOR ",
            " serviceVersion": " 1 . 0 . 0 "
        },
        {
            " display ": true ,
            " mandatory ": true ,
            " serviceDisplay": " Ganglia ",
            " serviceDisplayVersion": " 3 . 7 . 2 ",
            " serviceName": " GANGLIA ",
            " serviceVersion": " 3 . 7 . 2 "
        }
    ]
},
{
    " display ": false ,
    " ecmVersion": true ,
    " emrVersion": " EMR - 3 . 15 . 0 ",
    " imageId": " m - bp1gb5yo6f fpott39y87 ",
    " regionId": " cn - hangzhou ",
    " stackName": " EMR ",
    " stackVersion": " 3 . 15 . 0 . 1 . 2 ",
    " whiteUserList": [****]
},
" requestId": " 5A89CBBF - 7B7E - 4DA8 - 8D63 - 1AE7EB7EA2 A5 "

```

```
}
```

- 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
",
  "successResponse ": false
}
```

Error codes

[View error codes.](#)

3.8 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.
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.

Parameter	Type	Required	Example	Description
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.
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.

Parameter	Type	Example	Description
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-4c18-87e4-1a38fbc306	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-bp1aq78lhb ig6ielbur8	The ID of the disk.
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
& AccessKeyId = LTAI8ljWyu 7y ****
& ComponentName =
& GroupType =
& HostInstanceId =
& 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 "
        }
      ],
      " expiredTime ": 3249380160 0000 ,
      " hostInstanceId ":" i - bp1cfwf2cw gji7ds ****",
      " hostName ":" emr - header - 1 ",
      " instanceType ":" ecs . mn4 . xlarge ",
      " memory ": 16 ,
      " privateIp ":" 192 . 168 . 25 . 220 ",
      " publicIp ":" 47 . 110 . 77 . 16 ",
      " role ":" MASTER ",
      " serialNumber ":" 3c2a5078 - 778d - 4c18 - 87e4 -
1a38fbc3 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 7qmhpawhfh ",
            " diskSize ": 80 ,
            " diskType ":" CLOUD_EFFI CIENCY ",
            " type ":" data "
        },
        {
            " diskId ":" d - bp1558hztv 9c3q3gl7no ",
            " diskSize ": 80 ,
            " diskType ":" CLOUD_EFFI CIENCY ",
            " type ":" data "
        },
        {
            " diskId ":" d - bp1e82xlho b2n2e7q5rd ",
            " diskSize ": 80 ,
            " diskType ":" CLOUD_EFFI CIENCY ",
            " type ":" data "
        },
        {
            " diskId ":" d - bp1gpd9x4 o051udcmd3 ",
            " diskSize ": 80 ,
            " diskType ":" CLOUD_EFFI CIENCY ",
            " type ":" system "
        }
    ],
    " expiredTim e ": 3249380160 0000 ,
    " hostInstan ceId ":" i - bp14rtllgq 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.](#)

3.9 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	

Parameter	Type	Required	Example	Description
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.

Parameter	Type	Example	Description
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.
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.

Parameter	Type	Example	Description
RequestId	String	B8DC3A91-3953-4444-92BB-DBC29C47EC1A	The ID of the request.

Examples

• Sample requests

```
/? RegionId = cn - hangzhou
& AccessKeyId = LTAI8ljWyu 7y ****
& ClusterTypeList . 1 =[" HADOOP "," KAFKA "]
& CreateType = ON - DEMAND
& DefaultStatus =
& IsDesc = false
& PageNumber = 1
& PageSize = 10
& StatusList . 1 =[" CREATING "," IDLE "]
&< Common request parameters >
```

• Successful response examples

JSON format

```
{
  "clusters": [
    {
      "chargeType": "PostPaid",
      "createResource": "ECM-EMR",
      "createTime": 1542784048000,
      "failReason": {},
      "hasUncompletedOrder": false,
      "id": "C-010A704DA760072A",
      "name": "jy_test_d1_test",
      "orderTaskInfo": {},
      "runningTime": 3138,
      "status": "RELEASED",
      "type": "HADOOP"
    },
    {
      "chargeType": "PostPaid",
      "createResource": "ECM-EMR",
      "createTime": 1538107586000,
      "failReason": {},
      "hasUncompletedOrder": false,
      "id": "C-B9712209060CAB62",
      "name": "intelligence-313-yp",
      "orderTaskInfo": {},
      "runningTime": 2069400,
      "status": "RELEASED",
      "type": "HADOOP"
    },
    {
      "chargeType": "PostPaid",
      "createResource": "ECM-EMR",
      "createTime": 1536546078000,
      "failReason": {},
      "hasUncompletedOrder": false,
```

```

        " id ":" C - 4CD9EBBD6B 23C81E ",
        " name ":" mg - storm ",
        " orderTaskInfo ":" {},
        " runningTime ": 1382155 ,
        " status ":" RELEASED ",
        " type ":" HADOOP "
    },
    {
        " chargeType ":" PostPaid ",
        " createResource ":" ECM_EMR ",
        " createTime ": 1535363759 000 ,
        " failReason ":" {},
        " hasUncompletedOrder ": false ,
        " id ":" C - 75D6EE95D7 22E5CA ",
        " name ":" df - 3101 - upgrade - test ",
        " orderTaskInfo ":" {},
        " runningTime ": 676284 ,
        " status ":" RELEASED ",
        " type ":" HADOOP "
    },
    {
        " chargeType ":" PostPaid ",
        " createResource ":" ECM_EMR ",
        " createTime ": 1534492361 000 ,
        " failReason ": {
            " errorCode ":" InvalidImageId . NotFound ",
            " errorMsg ":" The specified ImageId does
not exist .",
            " requestId ":" B8DC3A91 - 3953 - 4444 - 92BB -
DBC29C47EC 1A "
        },
        " hasUncompletedOrder ": false ,
        " id ":" C - 5EF0F3C257 B16CB7 ",
        " name ":" test cluster1 ",
        " orderTaskInfo ":" {},
        " runningTime ": 0 ,
        " status ":" CREATE_FAILED ",
        " 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
",
    " successResponse ": false
}

```

```
}
```

Error codes

[View error codes.](#)

3.10 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.
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.

Parameter	Type	Example	Description
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.
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.

Parameter	Type	Example	Description
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.
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.

Parameter	Type	Example	Description
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.
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.

Parameter	Type	Example	Description
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.
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.

Parameter	Type	Example	Description
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 list of optional services.

Examples

• Sample requests

```
/? PageNumber = 1
& PageSize = 10
& AccessKeyId = 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",
  "templateInfoList": [{
    "bootstrapActionList": [],
    "clusterType": "HADOOP",
    "configList": [],
    "createSource": "2",
    "depositType": "HALF_MANAGED",
    "easEnable": false,
    "gmtCreate": 1543765033000,
    "gmtModified": 1543765033000,
    "highAvailabilityEnabled": false,
    "hostGroupList": [
      {
        "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.](#)

3.11 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-4DBD656F20CEAE0B	The ID of the cluster.
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
& AccessKeyId = LTAI8ljWyu 7y ****
& ServiceName = SPARK
&< Common request parameters >
```

- Successful response examples

JSON format

```
{
  "quickLinkList": [
    {
      "port": "8443",
      "protocol": "https",
      "quickLinkAddress": "knox . C - 4DBD656F20 CEAE0B . cn - hangzhou . emr . aliyuncs . com : 8443 / gateway / cluster - topo / hdfs /",
      "serviceName": "HDFS",
      "type": "KNOX"
    },
    {
      "port": "8443",
      "protocol": "https",
      "quickLinkAddress": "knox . C - 4DBD656F20 CEAE0B . cn - hangzhou . emr . aliyuncs . com : 8443 / gateway / cluster - topo / yarn /",
      "serviceName": "YARN",
      "type": "KNOX"
    },
    {
      "port": "8443",
      "protocol": "https",
      "quickLinkAddress": "knox . C - 4DBD656F20 CEAE0B . cn - hangzhou . emr . aliyuncs . com : 8443 / gateway / cluster - topo / sparkhistory /",
      "serviceName": "Spark",
      "type": "KNOX"
    },
    {
      "port": "8888",
      "protocol": "http",
      "quickLinkAddress": "knox . C - 4DBD656F20 CEAE0B . cn - hangzhou . emr . aliyuncs . com : 8888",
      "serviceName": "HUE",
      "type": "DEFAULT"
    },
    {
      "port": "8080",
      "protocol": "http",
      "quickLinkAddress": "knox . C - 4DBD656F20 CEAE0B . cn - hangzhou . emr . aliyuncs . com : 8080",
      "serviceName": "Zeppelin",
      "type": "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.](#)

3.12 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.

Parameter	Type	Example	Description
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.
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.

Parameter	Type	Example	Description
VpcId	String	vpc-bp1d618azo a9go6wowjl2	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.
VswitchId	String	vsw-bp18amcazi bt1u0d8qqqa	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
& AccessKeyId = 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 ,
      "ServiceDisplayName ": " Presto ",
      "ServiceName ": " PRESTO ",
      "ServiceVersion ": " 0 . 208 "
    },
    {
      "Mandatory ": false ,
      "ServiceDisplayName ": " Impala ",
      "ServiceName ": " IMPALA ",
      "ServiceVersion ": " 2 . 10 . 0 - 1 . 0 . 0 "
    },
    {
      "Mandatory ": true ,
      "ServiceDisplayName ": " Ganglia ",
      "ServiceName ": " GANGLIA ",
      "ServiceVersion ": " 3 . 7 . 2 "
    }
  ]
},
"ClusterType ": " HADOOP "
},
{
  "ClusterServiceInfoList ": {
    "ClusterServiceInfo ": [
      {
        "Mandatory ": false ,
        "ServiceDisplayName ": " Superset ",
        "ServiceName ": " SUPERSET ",
        "ServiceVersion ": " 0 . 27 . 0 "
      },
      {
        "Mandatory ": true ,
        "ServiceDisplayName ": " Druid ",
        "ServiceName ": " DRUID ",
        "ServiceVersion ": " 0 . 12 . 3 - 1 . 0 . 0 "
      },
      {
        "Mandatory ": true ,
        "ServiceDisplayName ": " ApacheDS ",
        "ServiceName ": " APACHEDS ",
        "ServiceVersion ": " 2 . 0 . 0 "
      },
      {
        "Mandatory ": false ,
        "ServiceDisplayName ": " YARN ",
        "ServiceName ": " YARN ",
        "ServiceVersion ": " 2 . 7 . 2 - 1 . 3 . 1 "
      },
      {
        "Mandatory ": true ,
        "ServiceDisplayName ": " HDFS ",
        "ServiceName ": " HDFS ",
        "ServiceVersion ": " 2 . 7 . 2 - 1 . 3 . 1 "
      },
      {
        "Mandatory ": true ,
        "ServiceDisplayName ": " ZooKeeper ",
        "ServiceName ": " ZOOKEEPER ",
        "ServiceVersion ": " 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 ,
      "ServiceDisplayName ": " YARN ",
      "ServiceName ": " YARN ",
      "ServiceVersion ": " 2 . 7 . 2 - 1 . 3 . 1 "
    },
    {
      "Mandatory ": true ,
      "ServiceDisplayName ": " HDFS ",
      "ServiceName ": " HDFS ",
      "ServiceVersion ": " 2 . 7 . 2 - 1 . 3 . 1 "
    },
    {
      "Mandatory ": true ,
      "ServiceDisplayName ": " ZooKeeper ",
      "ServiceName ": " ZOOKEEPER ",
      "ServiceVersion ": " 3 . 4 . 13 "
    },
    {
      "Mandatory ": true ,
      "ServiceDisplayName ": " Ganglia ",
      "ServiceName ": " GANGLIA ",
      "ServiceVersion ": " 3 . 7 . 2 "
    }
  ]
},
"ClusterType ": " DATA_SCIENCE "
},
{
  "ClusterServiceInfoList ": {
    "ClusterServiceInfo ": [
      {
        "Mandatory ": false ,
        "ServiceDisplayName ": " Ranger ",
        "ServiceName ": " RANGER ",
        "ServiceVersion ": " 1 . 0 . 0 "
      },
      {
        "Mandatory ": true ,
        "ServiceDisplayName ": " Kafka - Manager ",
        "ServiceName ": " KAFKA - MANAGER ",
        "ServiceVersion ": " 1 . 3 . 3 . 16 - 1 . 1 . 0 "
      },
      {
        "Mandatory ": true ,
        "ServiceDisplayName ": " Kafka ",
        "ServiceName ": " KAFKA ",
        "ServiceVersion ": " 2 . 11 - 1 . 1 . 0 - 1 . 0 . 0 "
      },
      {
        "Mandatory ": true ,
        "ServiceDisplayName ": " ZooKeeper ",
        "ServiceName ": " ZOOKEEPER ",
        "ServiceVersion ": " 3 . 4 . 13 "
      },
      {
        "Mandatory ": true ,
        "ServiceDisplayName ": " Ganglia ",
        "ServiceName ": " GANGLIA ",
        "ServiceVersion ": " 3 . 7 . 2 "
      }
    ]
  }
},

```

```

    " ClusterType " e ":" KAFKA "
  },
  {
    " ClusterServiceInfoList ":"{
      " ClusterServiceInfo ":"[
        {
          " Mandatory ": true ,
          " ServiceDisplayName ":" ZooKeeper ",
          " ServiceName " e ":" ZOOKEEPER ",
          " ServiceVersion ":" 3 . 4 . 13 "
        },
        {
          " Mandatory ": true ,
          " ServiceDisplayName ":" Ganglia ",
          " ServiceName " e ":" GANGLIA ",
          " ServiceVersion ":" 3 . 7 . 2 "
        }
      ]
    },
    " ClusterType " e ":" ZOOKEEPER "
  }
],
" EcmVersion ": true ,
" MainVersionName ":" EMR - 3 . 15 . 1 ",
" RegionId ":" cn - hangzhou "
}]
},
" KeyPairNameList ":"{
  " KeyPairName " e ":"[
    " lr_test ",
    " zx "
  ]
},
" RequestId ":" BFA129D8 - 2D93 - 4B20 - 9883 - FBD9814835 85 ",
" SecurityGroupList ":"{
  " SecurityGroup ":"[{
    " CreationTime ":" 2018 - 12 - 03T10 : 11 : 55Z ",
    " Description ":"",
    " SecurityGroupId ":" sg - bp1j1n0xcw fs19y98b7n ",
    " SecurityGroupName ":" ziguansg ",
    " VpcId ":" vpc - bp1d618azo a9go6wowjl 2 "
  }]
},
" VpcInfoList ":"{
  " VpcInfo ":"[
    {
      " CidrBlock ":" 192 . 168 . 0 . 0 / 16 ",
      " CreationTime ":" 2018 - 11 - 22T07 : 38 : 44Z ",
      " Description ":"",
      " VpcId ":" vpc - bp1d618azo a9go6wowjl 2 ",
      " VpcName ":" zgtest ",
      " VswitchInfoList ":"{
        " VswitchInfo ":"[{
          " AvailableIpAddressCount ": 200 ,
          " CidrBlock ":" 192 . 168 . 0 . 0 / 24 ",
          " CreationTime ":" 2018 - 11 - 22T07 : 38 : 49Z ",
          " Description ":"",
          " VpcId ":" vpc - bp1d618azo a9go6wowjl 2 ",
          " VswitchId ":" vsw - bp18amcazi btlu0d8qqq a ",
          " VswitchName " e ":" hangzhou_g ",
          " ZoneId ":" cn - hangzhou - g "
        }]
      }
    }
  ]
}

```

```

    },
    {
      "CidrBlock ":" 192 . 168 . 0 . 0 / 16 ",
      "CreationTime ":" 2018 - 04 - 02T07 : 46 : 16Z ",
      "Description ":" ecm - admin - case - dedicated ",
      "VpcId ":" vpc - bpl3gj276 98ijqq7xqp g ",
      "VpcName ":" ecm - admin - case - dedicated ",
      "VswitchInfoList ":{
        "VswitchInfo ":[
          {
            "AvailableIpAddressCount ": 234 ,
            "CidrBlock ":" 192 . 168 . 100 . 0 / 24 ",
            "CreationTime ":" 2018 - 06 - 04T11 : 51 : 48Z ",
            "Description ":"",
            "VpcId ":" vpc - bpl3gj276 98ijqq7xqp g ",
            "VswitchId ":" vsw - bpleph7elp 67a4pru99r w ",
            "VswitchName ":" xxx ",
            "ZoneId ":" cn - hangzhou - f "
          },
          {
            "AvailableIpAddressCount ": 236 ,
            "CidrBlock ":" 192 . 168 . 0 . 0 / 24 ",
            "CreationTime ":" 2018 - 04 - 02T07 : 46 : 21Z ",
            "Description ":" ecm - admin - case - dedicated ",
            "VpcId ":" vpc - bpl3gj276 98ijqq7xqp g ",
            "VswitchId ":" vsw - bpliyxwwox qlyr6uebo1 b ",
            "VswitchName ":" ecm - admin - case - dedicated ",
            "ZoneId ":" cn - hangzhou - b "
          }
        ]
      }
    ]
  },
  {
    "requestId ":" BFA129D8 - 2D93 - 4B20 - 9883 - FBD9814835 85 ",
    "successResponse ": 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 ",
  "successResponse ": false
}

```

Error codes

[View error codes.](#)

3.13 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.
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.
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.

Parameter	Type	Example	Description
LocalStorageAmount	Integer	2	The number of local disks.
LocalStorageCategory	String	local_ssd_pro	The type of local disks.
GPUMount	Integer	1	The number of GPUs.
GPUSpec	String	NVIDIA P100	The GPU.
InitialCredit	Integer	0	A reserved parameter.
BaselineCredit	Integer	0	The baseline vCPU performance of burstable instances (sum of vCPUs).
EniQuantity	Integer	3	The number of ENIs.
InstanceBandwidthRx	Integer	1536000	A reserved parameter.
InstanceBandwidthTx	Integer	1536000	A reserved parameter.
InstancePpsRx	Long	500000	A reserved parameter.
InstancePpsTx	Long	500000	A reserved parameter.

Examples

• Sample requests

```

/? ClusterType = HADOOP
& DestinationResource = Zone
& InstanceChargeType = PostPaid
& RegionId = cn - hangzhou
& AccessKeyId = LTAI8ljWyu 7y ****
& ClusterId = C - D7958B72E5 9BAB88
& DataDiskType = cloud_ssd
& DepositType = HALF_MANAGED
& InstanceType = ecs . g5 . xlarge
& NetType = vpc
& SpotStrategy =
& SystemDiskType = cloud_ssd
& ZoneId = cn - hangzhou - b

```

&< Common request parameters >

- Successful response examples

JSON format

```
{
  "emrZoneInfoList": [{
    "emrResourceInfoList": [{
      "supportedResourceList": [
        {
          "emrInstanceType": {
            "cpuCoreCount": 4,
            "eniQuantity": 2,
            "gpuAmount": 0,
            "gpuSpec": "",
            "instanceBandwidthRx": 819200,
            "instanceBandwidthTx": 819200,
            "instanceProcessorRx": 150000,
            "instanceProcessorTx": 150000,
            "instanceType": "ecs.n4.xlarge",
            "instanceTypeFamily": "ecs.n4",
            "localStorageCategory": "",
            "memorySize": 8
          },
          "supportNodeTypes": [
            "CORE",
            "MASTER",
            "TASK",
            "GATEWAY"
          ],
          "value": "ecs.n4.xlarge",
          "value1": "ecs.n4.xlarge"
        },
        {
          "emrInstanceType": {
            "cpuCoreCount": 8,
            "eniQuantity": 4,
            "gpuAmount": 0,
            "gpuSpec": "",
            "instanceBandwidthRx": 1536000,
            "instanceBandwidthTx": 1536000,
            "instanceProcessorRx": 400000,
            "instanceProcessorTx": 400000,
            "instanceType": "ecs.se1.2xlarge",
            "instanceTypeFamily": "ecs.se1",
            "localStorageCategory": "",
            "memorySize": 64
          },
          "supportNodeTypes": [
            "CORE",
            "MASTER",
            "TASK",
            "GATEWAY"
          ],
          "value": "ecs.se1.2xlarge",
          "value1": "ecs.se1.2xlarge"
        },
        {
          "emrInstanceType": {
            "cpuCoreCount": 16,
            "eniQuantity": 8,
            "gpuAmount": 0,
```

```

    " gPUSpec ":"",
    " instanceBa ndwidthRx ": 3072000 ,
    " instanceBa ndwidthTx ": 3072000 ,
    " instancePp sRx ": 1600000 ,
    " instancePp sTx ": 1600000 ,
    " instanceTy pe ":" ecs . sn2ne . 4xlarge ",
    " instanceTy peFamily ":" ecs . sn2ne ",
    " localStora geCategory ":"",
    " memorySize ": 64
  },
  " supportNod eTypeList ":[
    " CORE ",
    " MASTER ",
    " TASK ",
    " GATEWAY "
  ],
  " value ":" ecs . sn2ne . 4xlarge ",
  " value1 ":" ecs . sn2ne . 4xlarge "
},
{
  " emrInstanc eType ":{
    " cpuCoreCou nt ": 4 ,
    " eniQuantit y ": 2 ,
    " gPUAmount ": 0 ,
    " gPUSpec ":"",
    " instanceBa ndwidthRx ": 819200 ,
    " instanceBa ndwidthTx ": 819200 ,
    " instancePp sRx ": 150000 ,
    " instancePp sTx ": 150000 ,
    " instanceTy pe ":" ecs . mn4 . xlarge ",
    " instanceTy peFamily ":" ecs . mn4 ",
    " localStora geCategory ":"",
    " memorySize ": 16
  },
  " supportNod eTypeList ":[
    " CORE ",
    " MASTER ",
    " TASK ",
    " GATEWAY "
  ],
  " value ":" ecs . mn4 . xlarge ",
  " value1 ":" ecs . mn4 . xlarge "
},
{
  " 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 . sn2ne . 8xlarge ",
    " instanceTy peFamily ":" ecs . sn2ne ",
    " localStora geCategory ":"",
    " memorySize ": 128
  },
  " supportNod eTypeList ":[
    " CORE ",
    " MASTER ",
    " TASK ",
    " GATEWAY "
  ],

```

```

    " value ":" ecs . sn2ne . 8xlarge ",
    " value1 ":" ecs . sn2ne . 8xlarge "
  },
  {
    " emrInstanc eType ":{
      " cpuCoreCou nt ": 56 ,
      " eniQuantit y ": 8 ,
      " gPUAmount ": 0 ,
      " gPUSpec ":"",
      " instanceBa ndwidthRx ": 10240000 ,
      " instanceBa ndwidthTx ": 10240000 ,
      " instancePp sRx ": 4500000 ,
      " instancePp sTx ": 4500000 ,
      " instanceTy pe ":" ecs . sn2ne . 14xlarge ",
      " instanceTy peFamily ":" ecs . sn2ne ",
      " localStora geCategory ":"",
      " memorySize ": 224
    },
    " supportNod eTypeList ":[
      " CORE ",
      " MASTER ",
      " TASK ",
      " GATEWAY "
    ],
    " value ":" ecs . sn2ne . 14xlarge ",
    " value1 ":" ecs . sn2ne . 14xlarge "
  },
  {
    " emrInstanc eType ":{
      " cpuCoreCou nt ": 4 ,
      " eniQuantit y ": 3 ,
      " gPUAmount ": 0 ,
      " gPUSpec ":"",
      " instanceBa ndwidthRx ": 819200 ,
      " instanceBa ndwidthTx ": 819200 ,
      " instancePp sRx ": 200000 ,
      " instancePp sTx ": 200000 ,
      " instanceTy pe ":" ecs . sn2 . large ",
      " instanceTy peFamily ":" ecs . sn2 ",
      " localStora geCategory ":"",
      " memorySize ": 16
    },
    " supportNod eTypeList ":[
      " CORE ",
      " MASTER ",
      " TASK ",
      " GATEWAY "
    ],
    " value ":" ecs . sn2 . large ",
    " value1 ":" ecs . sn2 . large "
  },
  {
    " emrInstanc eType ":{
      " cpuCoreCou nt ": 16 ,
      " eniQuantit y ": 8 ,
      " gPUAmount ": 0 ,
      " gPUSpec ":"",
      " instanceBa ndwidthRx ": 6144000 ,
      " instanceBa ndwidthTx ": 6144000 ,
      " instancePp sRx ": 600000 ,
      " instancePp sTx ": 600000 ,
      " instanceTy pe ":" ecs . d1 . 4xlarge ",
      " instanceTy peFamily ":" ecs . d1 ",
      " localStora geAmount ": 8 ,

```

```

    " localStora geCapacity ": 5500 ,
    " localStora geCategory ":" local_hdd_ pro ",
    " memorySize ": 64
  },
  " supportNod eTypeList ":[" CORE "],
  " value ":" ecs . d1 . 4xlarge ",
  " value1 ":" ecs . d1 . 4xlarge "
},
{
  " 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 . selne . 4xlarge ",
    " instanceTy peFamily ":" ecs . selne ",
    " localStora geCategory ":"",
    " memorySize ": 128
  },
  " supportNod eTypeList ":[
    " CORE ",
    " MASTER ",
    " TASK ",
    " GATEWAY "
  ],
  " value ":" ecs . selne . 4xlarge ",
  " value1 ":" ecs . selne . 4xlarge "
},
{
  " emrInstanc eType ":{
    " cpuCoreCou nt ": 4 ,
    " eniQuantit y ": 3 ,
    " gPUAmount ": 1 ,
    " gPUSpec ":" Nvidia Tesla P4 ",
    " instanceBa ndwidthRx ": 1536000 ,
    " instanceBa ndwidthTx ": 1536000 ,
    " instancePp sRx ": 200000 ,
    " instancePp sTx ": 200000 ,
    " instanceTy pe ":" ecs . gn5i - c4g1 . xlarge ",
    " instanceTy peFamily ":" ecs . gn5i ",
    " localStora geCategory ":"",
    " memorySize ": 16
  },
  " supportNod eTypeList ":[
    " CORE ",
    " TASK "
  ],
  " value ":" ecs . gn5i - c4g1 . xlarge ",
  " value1 ":" ecs . gn5i - c4g1 . xlarge "
},
{
  " emrInstanc eType ":{
    " cpuCoreCou nt ": 4 ,
    " eniQuantit y ": 3 ,
    " gPUAmount ": 0 ,
    " gPUSpec ":"",
    " instanceBa ndwidthRx ": 819200 ,
    " instanceBa ndwidthTx ": 819200 ,
    " instancePp sRx ": 200000 ,
    " instancePp sTx ": 200000 ,

```

```

    " instanceTy pe ":" ecs . sn1 . large ",
    " instanceTy peFamily ":" ecs . sn1 ",
    " localStora geCategory ":"",
    " memorySize ": 8
  },
  " supportNod eTypeList ":[
    " CORE ",
    " MASTER ",
    " TASK ",
    " GATEWAY "
  ],
  " value ":" ecs . sn1 . large ",
  " value1 ":" ecs . sn1 . large "
},
{
  " emrInstanc eType ":{
    " cpuCoreCou nt ": 4 ,
    " eniQuantit y ": 3 ,
    " gPUAmount ": 0 ,
    " gPUSpec ":"",
    " instanceBa ndwidthRx ": 819200 ,
    " instanceBa ndwidthTx ": 819200 ,
    " instancePp sRx ": 200000 ,
    " instancePp sTx ": 200000 ,
    " instanceTy pe ":" ecs . se1 . xlarge ",
    " instanceTy peFamily ":" ecs . se1 ",
    " localStora geCategory ":"",
    " memorySize ": 32
  },
  " supportNod eTypeList ":[
    " CORE ",
    " MASTER ",
    " TASK ",
    " GATEWAY "
  ],
  " value ":" ecs . se1 . xlarge ",
  " value1 ":" ecs . se1 . xlarge "
},
{
  " emrInstanc eType ":{
    " cpuCoreCou nt ": 8 ,
    " eniQuantit y ": 4 ,
    " gPUAmount ": 0 ,
    " gPUSpec ":"",
    " instanceBa ndwidthRx ": 1536000 ,
    " instanceBa ndwidthTx ": 1536000 ,
    " instancePp sRx ": 400000 ,
    " instancePp sTx ": 400000 ,
    " instanceTy pe ":" ecs . sn2 . xlarge ",
    " instanceTy peFamily ":" ecs . sn2 ",
    " localStora geCategory ":"",
    " memorySize ": 32
  },
  " supportNod eTypeList ":[
    " CORE ",
    " MASTER ",
    " TASK ",
    " GATEWAY "
  ],
  " value ":" ecs . sn2 . xlarge ",
  " value1 ":" ecs . sn2 . xlarge "
},
{
  " emrInstanc eType ":{

```

```

    " cpuCoreCou  nt ": 8 ,
    " eniQuantit  y ": 4 ,
    " gPUAmount  ": 0 ,
    " gPUSpec  ":"",
    " instanceBa  ndwidthRx ": 1536000 ,
    " instanceBa  ndwidthTx ": 1536000 ,
    " instancePp  sRx ": 400000 ,
    " instancePp  sTx ": 400000 ,
    " instanceTy  pe ":" ecs . sn1 . xlarge ",
    " instanceTy  peFamily ":" ecs . sn1 ",
    " localStora  geCategory ":"",
    " memorySize  ": 16
  },
  " supportNod  eTypeList ":[
    " CORE ",
    " MASTER ",
    " TASK ",
    " GATEWAY "
  ],
  " value ":" ecs . sn1 . xlarge ",
  " value1 ":" ecs . sn1 . xlarge "
},
{
  " emrInstanc  eType ":{
    " cpuCoreCou  nt ": 8 ,
    " eniQuantit  y ": 4 ,
    " gPUAmount  ": 0 ,
    " gPUSpec  ":"",
    " instanceBa  ndwidthRx ": 3072000 ,
    " instanceBa  ndwidthTx ": 3072000 ,
    " instancePp  sRx ": 300000 ,
    " instancePp  sTx ": 300000 ,
    " instanceTy  pe ":" ecs . d1 . 2xlarge ",
    " instanceTy  peFamily ":" ecs . d1 ",
    " localStora  geAmount ": 4 ,
    " localStora  geCapacity ": 5500 ,
    " localStora  geCategory ":" local_hdd_ pro ",
    " memorySize  ": 32
  },
  " supportNod  eTypeList ":[" CORE "],
  " value ":" ecs . d1 . 2xlarge ",
  " value1 ":" ecs . d1 . 2xlarge "
},
{
  " 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 . se1 . 4xlarge ",
    " instanceTy  peFamily ":" ecs . se1 ",
    " localStora  geCategory ":"",
    " memorySize  ": 128
  },
  " supportNod  eTypeList ":[
    " CORE ",
    " MASTER ",
    " TASK ",
    " GATEWAY "
  ],

```

```

    " value ":" ecs . sel . 4xlarge ",
    " value1 ":" ecs . sel . 4xlarge "
  },
  {
    " emrInstanc eType ":{
      " cpuCoreCou nt ": 8 ,
      " eniQuantit y ": 4 ,
      " gPUAmount ": 0 ,
      " gPUSpec ":"",
      " instanceBa ndwidthRx ": 2048000 ,
      " instanceBa ndwidthTx ": 2048000 ,
      " instancePp sRx ": 1000000 ,
      " instancePp sTx ": 1000000 ,
      " instanceTy pe ":" ecs . sn1ne . 2xlarge ",
      " instanceTy peFamily ":" ecs . sn1ne ",
      " localStora geCategory ":"",
      " memorySize ": 16
    },
    " supportNod eTypeList ":[
      " CORE ",
      " MASTER ",
      " TASK ",
      " GATEWAY "
    ],
    " value ":" ecs . sn1ne . 2xlarge ",
    " value1 ":" ecs . sn1ne . 2xlarge "
  },
  {
    " 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 . sn2 . 3xlarge ",
      " instanceTy peFamily ":" ecs . sn2 ",
      " localStora geCategory ":"",
      " memorySize ": 64
    },
    " supportNod eTypeList ":[
      " CORE ",
      " MASTER ",
      " TASK ",
      " GATEWAY "
    ],
    " value ":" ecs . sn2 . 3xlarge ",
    " value1 ":" ecs . sn2 . 3xlarge "
  },
  {
    " emrInstanc eType ":{
      " cpuCoreCou nt ": 8 ,
      " eniQuantit y ": 3 ,
      " gPUAmount ": 0 ,
      " gPUSpec ":"",
      " instanceBa ndwidthRx ": 1228800 ,
      " instanceBa ndwidthTx ": 1228800 ,
      " instancePp sRx ": 300000 ,
      " instancePp sTx ": 300000 ,
      " instanceTy pe ":" ecs . mn4 . 2xlarge ",
      " instanceTy peFamily ":" ecs . mn4 ",
      " localStora geCategory ":"",

```

```

    " memorySize ": 32
  },
  " supportNode eTypeList ":[
    " CORE ",
    " MASTER ",
    " TASK ",
    " GATEWAY "
  ],
  " value ":" ecs . mn4 . 2xlarge ",
  " value1 ":" ecs . mn4 . 2xlarge "
},
{
  " emrInstance eType ":{
    " cpuCoreCount ": 4 ,
    " eniQuantity ": 3 ,
    " gPUsAmount ": 0 ,
    " gPUSpec ":"",
    " instanceBandwidthRx ": 1536000 ,
    " instanceBandwidthTx ": 1536000 ,
    " instanceProfile sRx ": 500000 ,
    " instanceProfile sTx ": 500000 ,
    " instanceType pe ":" ecs . sn2ne . xlarge ",
    " instanceType peFamily ":" ecs . sn2ne ",
    " localStorageCategory ":"",
    " memorySize ": 16
  },
  " supportNode eTypeList ":[
    " CORE ",
    " MASTER ",
    " TASK ",
    " GATEWAY "
  ],
  " value ":" ecs . sn2ne . xlarge ",
  " value1 ":" ecs . sn2ne . xlarge "
},
{
  " emrInstance eType ":{
    " cpuCoreCount ": 16 ,
    " eniQuantity ": 8 ,
    " gPUsAmount ": 1 ,
    " gPUSpec ":" Nvidia Tesla P4 ",
    " instanceBandwidthRx ": 3072000 ,
    " instanceBandwidthTx ": 3072000 ,
    " instanceProfile sRx ": 800000 ,
    " instanceProfile sTx ": 800000 ,
    " instanceType pe ":" ecs . gn5i - c16g1 . 4xlarge ",
    " instanceType peFamily ":" ecs . gn5i ",
    " localStorageCategory ":"",
    " memorySize ": 64
  },
  " supportNode eTypeList ":[
    " CORE ",
    " TASK "
  ],
  " value ":" ecs . gn5i - c16g1 . 4xlarge ",
  " value1 ":" ecs . gn5i - c16g1 . 4xlarge "
},
{
  " emrInstance eType ":{
    " cpuCoreCount ": 32 ,
    " eniQuantity ": 8 ,
    " gPUsAmount ": 0 ,
    " gPUSpec ":"",
    " instanceBandwidthRx ": 5120000 ,

```

```

    " instanceBa ndwidthTx ": 5120000 ,
    " instancePp sRx ": 500000 ,
    " instancePp sTx ": 500000 ,
    " instanceTy pe ":" ecs . mn4 . 8xlarge ",
    " instanceTy peFamily ":" ecs . mn4 ",
    " localStora geCategory ":"",
    " memorySize ": 128
  },
  " supportNod eTypeList ":[
    " CORE ",
    " MASTER ",
    " TASK ",
    " GATEWAY "
  ],
  " value ":" ecs . mn4 . 8xlarge ",
  " value1 ":" ecs . mn4 . 8xlarge "
},
{
  " emrInstanc eType ":{
    " cpuCoreCou nt ": 8 ,
    " eniQuantit y ": 4 ,
    " gPUAmount ": 0 ,
    " gPUSpec ":"",
    " instanceBa ndwidthRx ": 2048000 ,
    " instanceBa ndwidthTx ": 2048000 ,
    " instancePp sRx ": 1000000 ,
    " instancePp sTx ": 1000000 ,
    " instanceTy pe ":" ecs . selne . 2xlarge ",
    " instanceTy peFamily ":" ecs . selne ",
    " localStora geCategory ":"",
    " memorySize ": 64
  },
  " supportNod eTypeList ":[
    " CORE ",
    " MASTER ",
    " TASK ",
    " GATEWAY "
  ],
  " value ":" ecs . selne . 2xlarge ",
  " value1 ":" ecs . selne . 2xlarge "
},
{
  " emrInstanc eType ":{
    " cpuCoreCou nt ": 16 ,
    " eniQuantit y ": 2 ,
    " gPUAmount ": 0 ,
    " gPUSpec ":"",
    " instanceBa ndwidthRx ": 2560000 ,
    " instanceBa ndwidthTx ": 2560000 ,
    " instancePp sRx ": 400000 ,
    " instancePp sTx ": 400000 ,
    " instanceTy pe ":" ecs . n4 . 4xlarge ",
    " instanceTy peFamily ":" ecs . n4 ",
    " localStora geCategory ":"",
    " memorySize ": 32
  },
  " supportNod eTypeList ":[
    " CORE ",
    " MASTER ",
    " TASK ",
    " GATEWAY "
  ],
  " value ":" ecs . n4 . 4xlarge ",
  " value1 ":" ecs . n4 . 4xlarge "
}

```

```

    },
    {
      "emrInstanceType": {
        "cpuCoreCount": 32,
        "eniQuantity": 8,
        "gpuAmount": 0,
        "gpuSpec": "",
        "instanceBandwidthRx": 6144000,
        "instanceBandwidthTx": 6144000,
        "instanceProcessorRx": 2500000,
        "instanceProcessorTx": 2500000,
        "instanceType": "ecs.s3ne.xlarge",
        "instanceTypeFamily": "ecs.s3ne",
        "localStorageCategory": "",
        "memorySize": 256
      },
      "supportNodeTypes": [
        "CORE",
        "MASTER",
        "TASK",
        "GATEWAY"
      ],
      "value": "ecs.s3ne.xlarge",
      "value1": "ecs.s3ne.xlarge"
    },
    {
      "emrInstanceType": {
        "cpuCoreCount": 32,
        "eniQuantity": 2,
        "gpuAmount": 0,
        "gpuSpec": "",
        "instanceBandwidthRx": 5120000,
        "instanceBandwidthTx": 5120000,
        "instanceProcessorRx": 500000,
        "instanceProcessorTx": 500000,
        "instanceType": "ecs.n4.xlarge",
        "instanceTypeFamily": "ecs.n4",
        "localStorageCategory": "",
        "memorySize": 64
      },
      "supportNodeTypes": [
        "CORE",
        "MASTER",
        "TASK",
        "GATEWAY"
      ],
      "value": "ecs.n4.xlarge",
      "value1": "ecs.n4.xlarge"
    },
    {
      "emrInstanceType": {
        "cpuCoreCount": 8,
        "eniQuantity": 4,
        "gpuAmount": 0,
        "gpuSpec": "",
        "instanceBandwidthRx": 2048000,
        "instanceBandwidthTx": 2048000,
        "instanceProcessorRx": 1000000,
        "instanceProcessorTx": 1000000,
        "instanceType": "ecs.sn2ne.2xlarge",
        "instanceTypeFamily": "ecs.sn2ne",
        "localStorageCategory": "",
        "memorySize": 32
      },

```

```

    " supportNod  eTypeList ":[
      " CORE ",
      " MASTER ",
      " TASK ",
      " GATEWAY "
    ],
    " value ":" ecs . sn2ne . 2xlarge ",
    " value1 ":" ecs . sn2ne . 2xlarge "
  },
  {
    " 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 . se1ne . xlarge ",
      " instanceTy  peFamily ":" ecs . se1ne ",
      " localStora  geCategory ":"",
      " memorySize ": 32
    },
    " supportNod  eTypeList ":[
      " CORE ",
      " MASTER ",
      " TASK ",
      " GATEWAY "
    ],
    " value ":" ecs . se1ne . xlarge ",
    " value1 ":" ecs . se1ne . xlarge "
  },
  {
    " emrInstanc  eType ":{
      " cpuCoreCou  nt ": 24 ,
      " eniQuantit  y ": 8 ,
      " gPUAmount ": 0 ,
      " gPUSpec ":"",
      " instanceBa  ndwidthRx ": 8192000 ,
      " instanceBa  ndwidthTx ": 8192000 ,
      " instancePp  sRx ": 800000 ,
      " instancePp  sTx ": 800000 ,
      " instanceTy  pe ":" ecs . d1 . 6xlarge ",
      " instanceTy  peFamily ":" ecs . d1 ",
      " localStora  geAmount ": 12 ,
      " localStora  geCapacity ": 5500 ,
      " localStora  geCategory ":" local_hdd_ pro ",
      " memorySize ": 96
    },
    " supportNod  eTypeList ":" CORE ",
    " value ":" ecs . d1 . 6xlarge ",
    " value1 ":" ecs . d1 . 6xlarge "
  },
  {
    " emrInstanc  eType ":{
      " cpuCoreCou  nt ": 8 ,
      " eniQuantit  y ": 4 ,
      " gPUAmount ": 1 ,
      " gPUSpec ":" Nvidia  Tesla  P4 ",
      " instanceBa  ndwidthRx ": 2048000 ,
      " instanceBa  ndwidthTx ": 2048000 ,
      " instancePp  sRx ": 400000 ,
      " instancePp  sTx ": 400000 ,

```

```

    " instanceTy pe ":" ecs . gn5i - c8g1 . 2xlarge ",
    " instanceTy peFamily ":" ecs . gn5i ",
    " localStora geCategory ":"",
    " memorySize ": 32
  },
  " supportNod eTypeList ":[
    " CORE ",
    " TASK "
  ],
  " value ":" ecs . gn5i - c8g1 . 2xlarge ",
  " value1 ":" ecs . gn5i - c8g1 . 2xlarge "
},
{
  " emrInstanc eType ":{
    " 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 "
  },
  {
    "emrInstanceType": {
      "cpuCoreCount": 16,
      "eniQuantity": 8,
      "gpuAmount": 0,
      "gpuSpec": "",
      "instanceBandwidthRx": 2560000,
      "instanceBandwidthTx": 2560000,
      "instancePpsRx": 400000,
      "instancePpsTx": 400000,
      "instanceType": "ecs . mn4 . 4xlarge",
      "instanceTypeFamily": "ecs . mn4",
      "localStorageCategory": "",
      "memorySize": 64
    },
    "supportNodeTypes": [
      "CORE",
      "MASTER",
      "TASK",
      "GATEWAY"
    ],
    "value ":" ecs . mn4 . 4xlarge ",
    "value1 ":" ecs . mn4 . 4xlarge "
  }
],
" type ":" InstanceType "
}],
"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 ",
  "successResponse ": false
}

```

Error codes

[View error codes.](#)

3.14 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.
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.

Parameter	Type	Example	Description
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.
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
& AccessKeyId = LTAI8ljWyu 7y ****
& EmrVersion = EMR - 3 . 15 . 0
& PageNumber = 1
& PageSize = 10
& StackName = EMR
& StackVersion = 3 . 15 . 1 . 1 . 0
&< Common request parameters >
```

- Successful response examples

JSON format

```
{
  "emrMainVersionList": [
    {
      "clusterType": "e",
      "display": false,
      "ecmVersion": true,
      "emrVersion": "EMR - 3 . 16 . 0",
      "imageId": "m - bp1amnkvh r8eb6wud0f",
      "regionId": "cn - hangzhou",
      "stackName": "EMR",
      "stackVersion": "3 . 16 . 0 . 1 . 2",
      "whiteUserList": []
    },
    {
      "clusterType": "e",
      "display": false,
      "ecmVersion": true,
      "emrVersion": "EMR - 3 . 16 . 1",
      "imageId": "m - bp1amnkvh r8eb6wud0f",
      "regionId": "cn - hangzhou",
      "stackName": "EMR",
      "stackVersion": "3 . 16 . 0 . 1 . 3",
      "whiteUserList": []
    },
    {
      "clusterType": "e",
      "display": false,
      "ecmVersion": true,
      "emrVersion": "EMR - 3 . 15 . 1",
      "imageId": "m - bp1ddn4lsw c2fqjgj3ik",
      "regionId": "cn - hangzhou",
      "stackName": "EMR",
      "stackVersion": "3 . 15 . 1 . 1 . 0",
      "whiteUserList": []
    },
    {
      "clusterType": "e",
      "display": false,
      "ecmVersion": true,
      "emrVersion": "EMR - 3 . 15 . 2",
      "imageId": "m - bp1hdwryap 03nxpllr cd",
      "regionId": "cn - hangzhou",
      "stackName": "EMR",
      "stackVersion": "3 . 15 . 1 . 1 . 0",
      "whiteUserList": []
    }
  ]
}
```

```

    },
    {
      " clusterType  eInfoList ":[],
      " display ": false ,
      " ecmVersion ": true ,
      " emrVersion ":" EMR - 3 . 15 . 3 ",
      " imageId ":" m - bp1hdwryap 03nxml1rca ",
      " regionId ":" cn - hangzhou ",
      " stackName ":" EMR ",
      " stackVersion ":" 3 . 15 . 1 . 1 . 0 ",
      " whiteUserList ":[]
    }
  ],
  " 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
",
  " successResponse ": false
}

```

Error codes

[View error codes.](#)

3.15 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.

Parameter	Type	Required	Example	Description
TemplateName	String	Yes	new_templa te_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.
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.

Parameter	Type	Required	Example	Description
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.
Config.N. ServiceName	String	No	YARN	The name (capitalized) of the service that is configured by using the custom configuration item.
Configurations	String	No	<pre>[{"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"}}</pre>	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.

Parameter	Type	Required	Example	Description
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.
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.

Parameter	Type	Required	Example	Description
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.
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-bp10tvjyc7 7psy0z5h0ni	The ID of the VSwitch.
InitCustom HiveMetaDb	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.

Parameter	Type	Required	Example	Description
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.
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

Parameter	Type	Required	Example	Description
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.
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
& ClusterType = HADOOP
& EmrVersion = EMR - 3 . 15 . 0
& RegionId = cn - hangzhou
& TemplateName = new_template_name
& AccessKeyId = LTAI8ljWyu 7y ****
& AutoRenew = false
& ChargeType = PostPaid
& Configurations =
& DepositType = HALF_MANAGED
& EasEnable = true
& HighAvailabilityEnabled = true
& InitCustomHiveMetaDb =
& InstanceGeneration =
& IoOptimized = true
& IsOpenPublicIp = true
& LogPath = oss // bucketname / path
& MachineType = ECS
& MasterPwd = pwd
& NetType = vpc
```

```

& OptionSoft WareList . 1 =[" ZOOKEEPER "," LIVY "]
& Period = 36
& SecurityGroup Id = sg - bp1id7ajv8 3kmqwq2isx
& SecurityGroup Name = emr_sg
& SshEnable = true
& UseCustomHiveMetaDb =
& UseLocalMetadataDb = true
& UserDefinedEmrEcsRole = AliyunEmrEcsDefaultRole
& VpcId = vpc - bp1l4urd87 xlh7i4bj4 h
& VSwitchId = vsw - bp10tvjyc7 7psy0z5h0n i
& ZoneId = cn - hangzhou - b
& BootstrapAction . 1 . Arg =
& BootstrapAction . 1 . Name =
& BootstrapAction . 1 . Path =
& Config . 1 . ConfigKey =
& Config . 1 . ConfigValue =
& Config . 1 . Encrypt =
& Config . 1 . FileName =
& Config . 1 . Replace =
& Config . 1 . ServiceName =
& HostGroup . 1 . AutoRenew = true
& HostGroup . 1 . ChargeType = PostPaid
& HostGroup . 1 . ClusterId =
& HostGroup . 1 . Comment =
& HostGroup . 1 . CreateType =
& HostGroup . 1 . DiskCapacity = 80
& HostGroup . 1 . DiskCount = 4
& HostGroup . 1 . DiskType = CLOUD_SSD
& HostGroup . 1 . HostGroupId =
& HostGroup . 1 . HostGroupName = Master instance group
& HostGroup . 1 . HostGroupType = MASTER
& HostGroup . 1 . InstanceType = ecs . mn4 . 2xlarge
& HostGroup . 1 . MultiInstanceTypes =
& HostGroup . 1 . NodeCount = 4
& HostGroup . 1 . Period = 36
& HostGroup . 1 . SysDiskCapacity = 80
& HostGroup . 1 . SysDiskType = 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 ",
  "successResponse ": false
}

```

```
}

```

Error codes

[View error codes.](#)

3.16 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=ModifyClusterName
&AccessKeyId=LTAI8ljWyu7y****
&Id=C-13A570B821D4BAB3
&Name=bi_hadoop
&RegionId=cn-hangzhou
&<Common request parameters>
```

- Sample responses

JSON format

```
{
  "RequestId": "588E7707-D8C8-4618-9B74-FE54B6903A9A"
}
```

3.17 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
& AccessKeyId = LTAI8ljWyu 7y ****
& ForceRelease = 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.](#)

3.18 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.HostKeyName	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
& AccessKeyId = LTAI8ljWyu 7y ****
& VswitchId = vsw - bp10tvjyc7 7psy0z5h0ni
& HostGroup . 1 . AutoRenew =
& HostGroup . 1 . ChargeType = PostPaid
& HostGroup . 1 . ClusterId =
& HostGroup . 1 . Comment =
& HostGroup . 1 . CreateType =
& HostGroup . 1 . DiskCapacity = 120
& HostGroup . 1 . DiskCount = 4
& HostGroup . 1 . DiskType = CLOUD_SSD
& HostGroup . 1 . HostGroupId =
& HostGroup . 1 . HostGroupName = Task instance group
& HostGroup . 1 . HostGroupType = TASK
& HostGroup . 1 . HostKeyName =
& HostGroup . 1 . HostPassword =
& HostGroup . 1 . InstanceType = ecs . mn4 . 2xlarge
& HostGroup . 1 . InstanceCount = 1
& HostGroup . 1 . Period = 1
& HostGroup . 1 . SysDiskCapacity =
& HostGroup . 1 . SysDiskType =
& 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	No	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
& AccessKeyId = xxx
& Comment = addService
& Service . 1 ServiceName = 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 ",
  "successResponse ": 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_SCHEDULER
& RegionId = cn - hangzhou
& AccessKeyId = xxx
& Note = default resource pool
& YarnSiteConfig =
& Config . 1 . Category = DEFAULT_SETTINGS
& Config . 1 . ConfigKey = capacity
& Config . 1 . configType = RESOURCE_POOL_CONFIG
& Config . 1 . ConfigValue = 100
& Config . 1 . Note = capacity weight
& Config . 1 . TargetId =

```

< Common request parameters >

- Successful response examples

JSON format

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

- Error response examples

JSON format

```
{
  "code ":" AuthRealNameNotPass ",
  "message ":" User real name authentication failed!",
  "requestId ":" A544317F - 4A60 - 4532 - AC96 - 191B9D8042 0AF ",
  "successResponse ": 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 configuration 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 = DefaultQueue
& RegionId = cn - hangzhou
& ResourcePoolId = 115
& AccessKeyId = xxx
& Leaf = false
& ParentQueueId = 225
& QualifiedName =
& Config . 1 . Category = QUEUE_RESOURCE_LIMIT
& Config . 1 . ConfigKey = capacity
& Config . 1 . ConfigValue = 100
& Config . 1 . note = capacity weight
```

< Common request parameters >

- Successful response examples

JSON format

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

- Error response examples

JSON format

```
{
  "code ":" AuthRealNameNotPass ",
  "message ":" User real name authentication failed!",
  "requestId ":" A544317F - 4A60 - 4532 - AC96 - 191B9D8042 0AF ",
  "successResponse ": 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 = DeleteResourcePool
& ClusterId = C - EBD62A703A 430E23
& RegionId = cn - hangzhou
& ResourcePoolId = 115
& AccessKeyId =
&< Common request parameters >
```

- Successful response examples

JSON format

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

- Error response examples

JSON format

```
{
  "code ":" 4009 ",
  "message ":" The User Account maybe is out of service !",
  "requestId ":" 7DF74E3B - 5BEA - 4365 - 8E67 - 4FD9509592 4F ",
  "successResponse ": 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 = DeleteResourceQueue
& ClusterId = C - EBD62A703A 430E23
& RegionId = cn - hangzhou
& ResourceQueueId = 248
& AccessKeyId = xxx
&< Common request parameters >
```

• Successful response examples

JSON format

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

```
}
```

- Error response examples

JSON format

```
{
  "code ":" AuthRealNameNotPass ",
  "message ":" User real name authentication failed!",
  "requestId ":" A544317F - 4A60 - 4532 - AC96 - 191B9D8042 0AF ",
  "successResponse ": 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/IlogtailC omponentOperator .py touch -c /var /lib/ecm-agent/ cache/ecm/service /ILOGTAIL/1.0.0 .0.1-df/package/ scripts/IlogtailC 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 IlogtailC 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
& OperationId = 11123
& RegionId = cn - hangzhou
& TaskId = 1098803
& AccessKeyId = 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 IlogtailC 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 / IlogtailC
omponentOp erator . py touch - c / var / lib / ecm - agent /
cache / ecm / service / ILOGTAIL / 1 . 0 . 0 . 0 . 1 - df / package
/ scripts / IlogtailC 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.
SupportedSchedulerType	String	CAPACITY_SCHEDULER	The supported scheduler types.

Examples

- Sample requests

```
/? Action = DescribeClusterResourcePoolSchedulerType
& ClusterId = C-EBD62A703A430E23
& RegionId = cn-hangzhou
& AccessKeyId = xxx
&<Common request parameters>
```

- Successful response examples

JSON format

```
{
  "code": "200",
  "data": {
    "CurrentSchedulerType": "CAPACITY_SCHEDULER",
    "RequestId": "51517046-1327-45CF-9C70-AEA03A5BE025",
    "SupportedSchedulerType": "CAPACITY_SCHEDULER, FAIR_SCHEDULER",
  },
  "requestId": "51517046-1327-45CF-9C70-AEA03A5BE025",
  "successResponse": true
}
```

- Error response examples

JSON format

```
{
  "code": "User.OtherUserResource.NotAllow",
  "message": "It is not allowed to operate other user's resource",
  "requestId": "A544317F-4A60-4532-AC96-191B9D80420AF",
  "successResponse": 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 information 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_COMMAND	The name of the action.
Command	String	refreshQueues	When the value of ActionName is CUSTOM_COMMAND, specify the Command parameter. Services support different commands. Currently, YARN supports refreshQueues, enableCGroups, and disableCGroups.
DisplayName	String	RESTART NodeManager	The displayed name of the action.
ClusterServiceSummaryList			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
& ServiceName = HDFS
& AccessKeyId = akId
&< Common request parameters >
```

• Successful response examples

JSON format

```
{
  "code ":" 200 ",
  "data ":{
    "RequestId ":" 7A23195A - BC03 - 4D82 - BED5 - 90ED0D36F0 02 ",
    "ServiceInfo ":{
      "ClusterServiceSummaryList ":{
        "ClusterServiceSummary ":[
          {
```

```

    " 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 ",
      "ComponentName": "ALL COMPONENTS ",
      "DisplayName": "START All Components ",
      "ServiceName": "YARN "
    },
    {
      "ActionName": "STOP ",
      "ComponentName": "ALL COMPONENTS ",
      "DisplayName": "STOP All Components ",
      "ServiceName": "YARN "
    },
    {
      "ActionName": "RESTART ",
      "ComponentName": "ALL COMPONENTS ",
      "DisplayName": "RESTART All Components ",
      "ServiceName": "YARN "
    },
    {
      "ActionName": "RESTART ",
      "ComponentName": "NodeManager ",
      "DisplayName": "RESTART NodeManager ",
      "ServiceName": "YARN "
    },
    {
      "ActionName": "RESTART ",
      "ComponentName": "WebAppProxyServer ",
      "DisplayName": "RESTART WebAppProxyServer ",
      "ServiceName": "YARN "
    },
    {
      "ActionName": "RESTART ",
      "ComponentName": "JobHistory ",
      "DisplayName": "RESTART JobHistory ",
      "ServiceName": "YARN "
    },
    {
      "ActionName": "RESTART ",
      "ComponentName": "ResourceManager ",
      "DisplayName": "RESTART ResourceManager ",
      "ServiceName": "YARN "
    },
    {
      "ActionName": "RESTART ",
      "ComponentName": "TimelineServer ",
      "DisplayName": "RESTART App Timeline Server ",
      "ServiceName": "YARN "
    },
    {
      "ActionName": "CUSTOM_COMMAND ",
      "Command": "refreshQueues ",
      "ComponentName": "ResourceManager ",
      "DisplayName": "Refresh Queues ",
      "ServiceName": "YARN "
    },
    {
      "ActionName": "CUSTOM_COMMAND ",
      "Command": "enableCGroups ",
      "ComponentName": "NodeManager ",
      "DisplayName": "Enable CGroups ",
      "ServiceName": "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 .
ConfigItem ValueList			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.
Minimum	String	10	The minimum 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.
IncrementStep	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
& AccessKeyId = akId
& ConfigVersion = 0
& GroupId = 0
& HostInstanceId = ecsId
& ServiceName = TEZ
& TagValue = tez - site
```

< Common request parameters >

- Successful response examples

JSON format

```
{
  " Config ":{
    " Applied ": true ,
    " Author ":" 1250460021 754461 ",
    " Comment ":"",
    " ConfigValueList ":{
      " ConfigValue ":[{
        " AllowCustom ": true ,
        " ConfigItem ValueList ":{
          " ConfigItem Value ":[
            {
              " ItemName ":" tez . history . logging . service . class ",
              " Value ":" org . apache . tez . dag . history . logging .
ats . ATSHistory LoggingService "
            },
            {
              " 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 "
      }
    ],
    " ConfigVersion ":" 0 ",
    " CreateTime ":" 1543312717 000 ",
    " PropertyInfoList ":{
      " PropertyInfo ":[
        {
```

```

    "Description": "",
    "DisplayName": "",
    "EffectWay": {},
    "FileName": "tez - site ",
    "Name": "tez . lib . uris ",
    "PropertyTypes": {
      "propertyType": []
    },
    "PropertyValueAttributes": {
      "Entries": {
        "ValueEntryInfo": []
      },
      "Hidden": false,
      "IncrementSteps": "",
      "Maximum": "2147483647 ",
      "Minimum": "",
      "ReadOnly": false,
      "Type": "",
      "Unit": ""
    },
    "ServiceName": "TEZ ",
    "Value": "${ fs . defaultFS }/ apps / tez - 0 . 9 . 1 - 1 . 0
. 2 /, ${ fs . defaultFS }/ apps / tez - 0 . 9 . 1 - 1 . 0 . 2 / lib
/"
  },
  {
    "Description": "",
    "DisplayName": "",
    "EffectWay": {},
    "FileName": "tez - site ",
    "Name": "tez . staging - dir ",
    "PropertyTypes": {
      "propertyType": []
    },
    "PropertyValueAttributes": {
      "Entries": {
        "ValueEntryInfo": []
      },
      "Hidden": false,
      "IncrementSteps": "",
      "Maximum": "2147483647 ",
      "Minimum": "",
      "ReadOnly": false,
      "Type": "",
      "Unit": ""
    },
    "ServiceName": "TEZ ",
    "Value": "/ tmp / tez / staging "
  },
  {
    "Description": "",
    "DisplayName": "",
    "EffectWay": {},
    "FileName": "tez - site ",
    "Name": "tez . am . resource . memory . mb ",
    "PropertyTypes": {
      "propertyType": ["MEMORY "]
    },
    "PropertyValueAttributes": {
      "Entries": {
        "ValueEntryInfo": []
      },
      "Hidden": false,
      "IncrementSteps": "",

```

```

    " Maximum ":" 2147483647 ",
    " Mimimum ":"",
    " ReadOnly ": false ,
    " Type ":"",
    " Unit ":""
  },
  " ServiceName ":" TEZ ",
  " Value ":"# yarn_app_maxreduce_allocation_resource_mb #"
},
{
  " Description ":"",
  " DisplayName ":"",
  " EffectWay ": {},
  " FileName ":" tez - site ",
  " Name ":" tez . container . max . java . heap . fraction ",
  " PropertyTypes ": {
    " propertyType ": [" MEMORY "]
  },
  " PropertyValueAttributes ": {
    " Entries ": {
      " ValueEntry Info ": []
    },
    " Hidden ": false ,
    " IncrementSteps ":"",
    " Maximum ":" 2147483647 ",
    " Mimimum ":"",
    " ReadOnly ": false ,
    " Type ":"",
    " Unit ":""
  },
  " ServiceName ":" TEZ ",
  " Value ":" 0 . 8 "
},
{
  " Description ":"",
  " DisplayName ":"",
  " EffectWay ": {},
  " FileName ":" tez - site ",
  " Name ":" tez . history . logging . service . class ",
  " PropertyTypes ": {
    " propertyType ": []
  },
  " PropertyValueAttributes ": {
    " Entries ": {
      " ValueEntry Info ": []
    },
    " Hidden ": false ,
    " IncrementSteps ":"",
    " Maximum ":" 2147483647 ",
    " Mimimum ":"",
    " ReadOnly ": false ,
    " Type ":"",
    " Unit ":""
  },
  " ServiceName ":" TEZ ",
  " Value ":" org . apache . tez . dag . history . logging . ats
. ATSHistory LoggingService "
},
{
  " Description ":" Publish configuration information
to Timeline server .",
  " DisplayName ":"",
  " 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 ,
      " IncremmtS 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 ,
      " IncremmtS 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 ,
      " IncremmtS tep ":"",
      " Maximum ":" 2147483647 ",
      " Mimimum ":"",
      " ReadOnly ": false ,
      " Type ":"",
      " Unit ":""
    }
  }
}

```

```

    },
    "ServiceName": "TEZ ",
    "Value": "- Xmx512m "
  },
  {
    "Description": "",
    "DisplayName": "tomcat_heapsize ",
    "EffectWay": {},
    "FileName": "user_params ",
    "Name": "tomcat_heapsize ",
    "PropertyTypes": {
      "propertyType": []
    },
    "PropertyValueAttributes": {
      "Entries": {
        "ValueEntryInfo": []
      },
      "Hidden": false,
      "IncrementSteps": "",
      "Maximum": "2147483647 ",
      "Minimum": "",
      "ReadOnly": false,
      "Type": "",
      "Unit": ""
    },
    "ServiceName": "TEZ ",
    "Value": "512 "
  },
  {
    "Description": "",
    "DisplayName": "do_init_host ",
    "EffectWay": {},
    "FileName": "user_params ",
    "Name": "do_init_host ",
    "PropertyTypes": {
      "propertyType": []
    },
    "PropertyValueAttributes": {
      "Entries": {
        "ValueEntryInfo": []
      },
      "Hidden": false,
      "IncrementSteps": "",
      "Maximum": "2147483647 ",
      "Minimum": "",
      "ReadOnly": false,
      "Type": "",
      "Unit": ""
    },
    "ServiceName": "TEZ ",
    "Value": "emr - header - 1 "
  }
]
},
"ServiceName": "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 ",
  "successResponse ": 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
& ServiceName = TEZ
& AccessKeyId = 11
&< Common request parameters >
```

• Successful response examples

JSON format

```
{
  " ConfigTagList ":{
    " ConfigTag ":[
      {
        " Tag ":" FILE_NAME ",
        " TagDesc ":" file ",
        " ValueList ":{
          " Value ":[
            {
              " Value ":" tez - site ",
              " ValueDesc ":" tez - site "
            }
          ]
        }
      }
    ],
  },
  {
    " Tag ":" PROPERTY_TYPE ",
    " TagDesc ":" configuration type ",
    " ValueList ":{
      " Value ":{
        {
          " Value ":" BASIC ",
          " ValueDesc ":" basic configuration "
        },
        {
          " Value ":" ADVANCED ",
          " ValueDesc ":" advanced configuration "
        }
      }
    }
  },
}
```

```

{
  " Value ":" INFORMATION ",
  " 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
& AccessKeyId = 111
& ComponentName = TezInit
& ComponentStatus = 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

```
{
  "ComponentList": {
    "Component": [
      {
        "ComponentDisplayName": "Tez Client ",
        "ComponentName": "TezInit ",
        "HostId": "124903 ",
        "HostInstanceID": "i - xxx1 ",
        "HostName": "emr - header - 1 ",
        "InstanceType": "ecs . n4 . xlarge ",
        "NeedRestart": false,
        "PrivateIp": "192 . 168 . 143 . 231 ",
        "PublicIp": "47 . 97 . 106 . 27 ",
        "Role": "MASTER ",
        "SerialNumber": "x11 - 05e5 - 4d36 - b773 - 8ae4106bab d4",
        "ServiceDisplayName": "Tez ",
        "ServiceName": "TEZ ",
        "Status": "STARTED "
      },
      {
        "ComponentDisplayName": "Tomcat ",
        "ComponentName": "Tomcat ",
        "HostId": "124903 ",
        "HostInstanceID": "i - xxx2 ",
        "HostName": "emr - header - 1 ",
        "InstanceType": "ecs . n4 . xlarge ",
        "NeedRestart": false,
        "PrivateIp": "192 . 168 . 143 . 231 ",
        "PublicIp": "47 . 97 . 106 . 27 ",
        "Role": "MASTER ",
        "SerialNumber": "1xx1 - 05e5 - x - b773 - xxx ",
        "ServiceDisplayName": "Tez ",
        "ServiceName": "TEZ ",
        "Status": "STARTED "
      },
      {
        "ComponentDisplayName": "Tez Client ",
        "ComponentName": "TezInit ",
        "HostId": "124902 ",
        "HostInstanceID": "i - xxx3 ",
        "HostName": "emr - worker - 1 ",
        "InstanceType": "ecs . n4 . xlarge ",
        "NeedRestart": false,
        "PrivateIp": "192 . 168 . 143 . 232 ",
        "PublicIp": "",
        "Role": "CORE ",
        "SerialNumber": "asd1x1 - af39 - 1c - 32b27d83d4 c3 ",
        "ServiceDisplayName": "Tez ",
        "ServiceName": "TEZ ",
        "Status": "STARTED "
      }
    ]
  }
}
```

```

    },
    {
      "ComponentDisplayName": "Tez Client ",
      "ComponentName": "TezInit ",
      "HostId": "124901 ",
      "HostInstanceId": "i - xxx4 ",
      "HostName": "emr - worker - 2 ",
      "InstanceType": "ecs . n4 . xlarge ",
      "NeedRestart": false ,
      "PrivateIp": "192 . 168 . 143 . 233 ",
      "PublicIp": "",
      "Role": "CORE ",
      "SerialNumber": "1cc - 2762 - 4d84 - a430 - xxx ",
      "ServiceDisplayName": "Tez ",
      "ServiceName": "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 ",
  "successResponse": 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
& AccessKeyId = 111
& PageNumber = 1
& PageSize = 100
& ServiceName = YARN
& Status = SUCCESS
&< Common request parameters >
```

• Successful response examples

JSON format

```
{
  "ClusterOperationList": {
    "ClusterOperation": [
      {
        "Comment": "Create cluster ",
        "Duration": "303 ",
        "OperationId": "41027 ",
        "OperationName": "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 ",
  "successResponse": false
}
```

```
}
```

Error codes

[View error codes.](#)

4.13 ListClusterOperationHost

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

Request parameters

Name	Type	Required	Example	Description
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.
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.

Name	Type	Example	Description
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
& OperationId = 111
& RegionId = cn - hangzhou
& AccessKeyId = 111
& PageNumber = 1
& PageSize = 100
& Status = SUCCESS
&< Common request parameters >
```

• Successful response examples

JSON format

```
{
  "ClusterOperationHostList":{
    "ClusterOperationHost":[
      {
        "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.](#)

4.14 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.

Name	Type	Required	Example	Description
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 .
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
& OperationId = 11
& RegionId = cn - hangzhou
& AccessKeyId = 111
```

```
& PageNumber = 1
& PageSize = 100
& Status = SUCCESS
&< Common request parameters >
```

- **Successful response examples**

JSON format

```
{
  "ClusterOperationHostTaskList": {
    "ClusterOperationHostTask": [
      {
        "Percentage": "",
        "Status": "COMPLETED",
        "TaskId": "4628214",
        "TaskName": "START_SparkHistory_0_N_emr - header - 1"
      },
      {
        "Percentage": "",
        "Status": "COMPLETED",
        "TaskId": "4628213",
        "TaskName": "START_DockerSchedule_r_ON_emr - header - 1"
      },
      {
        "Percentage": "",
        "Status": "COMPLETED",
        "TaskId": "4628212",
        "TaskName": "START_MySQL_ON_emr - header - 1"
      },
      {
        "Percentage": "",
        "Status": "COMPLETED",
        "TaskId": "4628211",
        "TaskName": "START_HiveMetaStore_ON_emr - header - 1"
      },
      {
        "Percentage": "",
        "Status": "COMPLETED",
        "TaskId": "4628210",
        "TaskName": "START_NameNode_ON_emr - header - 1"
      },
      {
        "Percentage": "",
        "Status": "COMPLETED",
        "TaskId": "4628209",
        "TaskName": "START_Ilogtaild_ON_emr - header - 1"
      },
      {
        "Percentage": "",
        "Status": "COMPLETED",
        "TaskId": "4628206",
        "TaskName": "START_HiveServer_ON_emr - header - 1"
      },
      {
        "Percentage": "",
        "Status": "COMPLETED",
        "TaskId": "4628205",
        "TaskName": "START_GmetricCollect_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_0 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_0 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_0 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_0 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_0   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_0   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.](#)

4.15 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.
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.
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 .

Name	Type	Example	Description
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.
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
& AccessKeyId = 111
& PageNumber = 1
& PageSize = 100
```

< Common request parameters >

- Successful response examples

JSON format

```
{
  "ClusterServiceList": {
    "ClusterService": [
      {
        "AbnormalNum": 0,
        "ClientType": false,
        "HealthStatus": "",
        "InstallStatus": true,
        "NeedRestartInfo": "",
        "NeedRestartNum": 0,
        "NotStartInfo": "Have 0 component(s) not started",
        "ServiceActionList": {
          "ServiceAction": [
            {
              "ActionName": "CONFIGURE",
              "ComponentName": "ALL COMPONENTS",
              "DisplayName": "CONFIGURE All Components",
              "ServiceName": "HDFS"
            },
            {
              "ActionName": "START",
              "ComponentName": "ALL COMPONENTS",
              "DisplayName": "START All Components",
              "ServiceName": "HDFS"
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}
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    " DisplayName ":" RESTART SecondaryNameNode ",
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    " ComponentName ":" NameNode ",
    " DisplayName ":" REBALANCE HDFS ",
    " ServiceName ":" HDFS "
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  {
    " ActionName ":" CUSTOM_COMMAND ",
    " Command ":" stop_rebalance ",
    " ComponentName ":" NameNode ",
    " DisplayName ":" STOP_REBALANCE HDFS ",
    " ServiceName ":" HDFS "
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" ServiceVersion ":" 2.7.2 ",
" StoppedNum ": 2
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  " NeedRestartNum ": 0,
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      {
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        " DisplayName ":" START All Components ",
        " ServiceName ":" YARN "
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      {
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      },
      {
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        " ComponentName ":" ALL COMPONENTS ",

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  },
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    " ServiceName " e ":" YARN "
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    " ServiceName " e ":" YARN "
  },
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    " ServiceName " e ":" YARN "
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    " DisplayName " e ":" RESTART    WebAppProxyServer ",
    " ServiceName " e ":" YARN "
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    " ComponentName " e ":" ResourceManager ",
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    " ServiceName " e ":" YARN "
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    " ComponentName " e ":" NodeManager ",
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    " ServiceName ": " GANGLIA "
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    " DisplayName ": " RESTART Gmond ",
    " ServiceName ": " GANGLIA "
  },
  {
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    " ComponentName ": " HTTPD ",
    " DisplayName ": " RESTART Httpd ",
    " ServiceName ": " GANGLIA "
  }
]
},
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  " ServiceVersion ": " 3 . 7 . 2 ",
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      " DisplayNam e ":" RESTART All Components ",
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        " ServiceName ": " HUE "
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      {
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        " ComponentName ": " Hue ",
        " DisplayName ": " RESTART Hue ",
        " ServiceName ": " HUE "
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    ]
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  " ServiceName ": " HUE ",
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  " ServiceNam  e ":" PHOENIX ",
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  " ServiceVer  sion ":" 4 . 10 . 0 "
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        " DisplayNam  e ":" START  All  Components ",
        " ServiceNam  e ":" PRESTO "
      },
      {
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        " ComponentN  ame ":" ALL  COMPONENTS ",
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        " ServiceNam  e ":" PRESTO "
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        " DisplayNam  e ":" RESTART  All  Components ",
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        " ServiceNam  e ":" PRESTO "
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      }
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  " ServiceNam  e ":" PRESTO ",
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        " DisplayNam  e ":" CONFIGURE  All  Components ",
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        " ServiceNam  e ":" PIG "
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    " NotStartIn  fo ":"",
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    " NeedRestar  tInfo ":"",

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      " ServiceNam e ":" HAPROXY "
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  " NotStartIn fo ":",
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  "ServiceVersion": "1.3.3.16-1.1.0 "
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},
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},
{
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},
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"ServiceVersion": "1.1.1 "
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      " ServiceName ": " APACHEDS "
    },
    {
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      " ComponentName ": " ALL COMPONENTS ",
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      " ServiceName ": " APACHEDS "
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    },
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},
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        " ServiceName ": " KNOX "
      }
    ]
  }
}

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    {
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  " ServiceDisplayName ":" Knox ",
  " ServiceName ":" KNOX ",
  " ServiceStatus ":" INSTALLED ",
  " ServiceVersion ":" 0 . 13 . 0 ",
  " StoppedNum ": 0
},
{
  " HealthStatus ":"",
  " InstallStatus ": false ,
  " NeedRestartInfo ":"",
  " NotStartInfo ":"",
  " ServiceActionList ":{
    " ServiceAction ":"[]"
  },
  " ServiceDisplayName ":" Flink ",
  " ServiceName ":" FLINK ",
  " ServiceStatus ":"",
  " ServiceVersion ":" 1 . 4 . 0 "
},
{
  " HealthStatus ":"",
  " InstallStatus ": false ,
  " NeedRestartInfo ":"",
  " NotStartInfo ":"",
  " ServiceActionList ":{
    " ServiceAction ":"[]"
  },
  " ServiceDisplayName ":" RANGER ",
  " ServiceName ":" RANGER ",
  " ServiceStatus ":"",
  " ServiceVersion ":" 1 . 0 . 0 "
},
{
  " HealthStatus ":"",
  " InstallStatus ": false ,
  " NeedRestartInfo ":"",
  " NotStartInfo ":"",
  " ServiceActionList ":{
    " ServiceAction ":"[]"
  },
  " ServiceDisplayName ":" Druid ",
  " ServiceName ":" DRUID ",
  " ServiceStatus ":"",
  " ServiceVersion ":" 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 ",
    " ComponentName ":" ALL COMPONENTS ",
    " DisplayName ":" CONFIGURE All Components ",
    " ServiceName ":" ILOGTAIL "
  },
  {
    " ActionName ":" START ",
    " ComponentName ":" ALL COMPONENTS ",
    " DisplayName ":" START All Components ",
    " ServiceName ":" ILOGTAIL "
  },
  {
    " ActionName ":" STOP ",
    " ComponentName ":" ALL COMPONENTS ",
    " DisplayName ":" STOP All Components ",
    " ServiceName ":" ILOGTAIL "
  },
  {
    " ActionName ":" RESTART ",
    " ComponentName ":" ALL COMPONENTS ",
    " DisplayName ":" RESTART All Components ",
    " ServiceName ":" ILOGTAIL "
  },
  {
    " ActionName ":" RESTART ",
    " ComponentName ":" Ilogtaild ",
    " DisplayName ":" RESTART ilogtaild ",
    " ServiceName ":" ILOGTAIL "
  }
]
},
{
  " ServiceDisplayName ":" ILOGTAIL ",
  " ServiceName ":" ILOGTAIL ",
  " ServiceStatus ":" INSTALLED ",
  " ServiceVersion ":" 1 . 0 . 0 ",
  " StoppedNum ": 0
},
{
  " AbnormalNum ": 0 ,
  " ClientType ": false ,
  " HealthStatus ":"",
  " InstallStatus ":" true ,
  " NeedRestartInfo ":"",
  " NeedRestartNum ": 0 ,
  " NotStartInfo ":"",
  " ServiceActionList ":{
  " ServiceAction ":[
    {
      " ActionName ":" CONFIGURE ",
      " ComponentName ":" ALL COMPONENTS ",
      " DisplayName ":" CONFIGURE All Components ",
      " ServiceName ":" EMRFLOW "
    },
    {
      " ActionName ":" START ",
      " ComponentName ":" ALL COMPONENTS ",
      " DisplayName ":" START All Components ",
      " ServiceName ":" EMRFLOW "
    },
    {
      " ActionName ":" STOP ",
      " ComponentName ":" ALL COMPONENTS ",
      " DisplayName ":" STOP All Components ",
      " ServiceName ":" EMRFLOW "
    }
  ]
}

```

```

    },
    {
      " ActionName ":" RESTART ",
      " ComponentName ":" ALL COMPONENTS ",
      " DisplayName ":" RESTART All Components ",
      " ServiceName ":" EMRFLOW "
    },
    {
      " ActionName ":" RESTART ",
      " ComponentName ":" FlowAgentDaemon ",
      " DisplayName ":" RESTART Flow Agent Daemon ",
      " ServiceName ":" EMRFLOW "
    },
    {
      " ActionName ":" RESTART ",
      " ComponentName ":" MetaCommand ",
      " DisplayName ":" RESTART Emr Meta Command ",
      " ServiceName ":" EMRFLOW "
    },
    {
      " ActionName ":" CUSTOM_COMMAND ",
      " Command ":" do_ops ",
      " ComponentName ":" MetaCommand ",
      " DisplayName ":" metacli_ops ",
      " ServiceName ":" EMRFLOW "
    }
  ],
  " ServiceDisplayName ":" EmrFlow ",
  " ServiceName ":" EMRFLOW ",
  " ServiceStatus ":" INSTALLED ",
  " ServiceVersion ":" 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 ",
  " successResponse ": false
}

```

Error codes

[View error codes.](#)

4.16 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.
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.

Parameter	Type	Example	Description
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.
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
& AccessKeyId = LTAI8ljWyu 7y ****
& ServiceName = TEZ
```

< Common request parameters >

· Successful response examples

JSON format

```
{
  " ClusterId ":" C - F7CBF0B43D 983FDB ",
  " HealthInfo List ":{
    " HealthInfo ":[
      {
        " AgentHeart BeatLostNum ": 0 ,
        " HealthData illList ":{
          " HealthData il ":[ ]
        },
        " HealthLevel ":" NORMAL ",
        " ManualStop pedNum ": 0 ,
        " NormalNum ": 7 ,
        " ServiceName ":" EMR - MONITOR ",
        " StoppedNum ": 0 ,
        " TotalNum ": 7
      },
      {
        " AgentHeart BeatLostNum ": 0 ,
        " HealthData illList ":{
          " HealthData il ":[ ]
        },
        " HealthLevel ":" NORMAL ",
        " ManualStop pedNum ": 0 ,
        " NormalNum ": 8 ,
        " ServiceName ":" GANGLIA ",
        " StoppedNum ": 0 ,
        " TotalNum ": 8
      },
      {
        " AgentHeart BeatLostNum ": 0 ,
        " HealthData illList ":{
          " HealthData il ":[ ]
        },
        " HealthLevel ":" NORMAL ",
        " ManualStop pedNum ": 0 ,
        " NormalNum ": 4 ,
        " ServiceName ":" EMRDOCTOR ",
        " StoppedNum ": 0 ,
        " TotalNum ": 4
      },
      {
        " AgentHeart BeatLostNum ": 0 ,
        " HealthData illList ":{
          " HealthData il ":[ ]
        },
        " HealthLevel ":" NORMAL ",
        " ManualStop pedNum ": 0 ,
        " NormalNum ": 1 ,
        " ServiceName ":" MYSQL ",
        " StoppedNum ": 0 ,
        " TotalNum ": 1
      },
      {
        " AgentHeart BeatLostNum ": 0 ,
        " HealthData illList ":{
          " HealthData il ":[ ]
        },

```

```

    " HealthLevel ": " NORMAL ",
    " ManualStop pedNum ": 0 ,
    " NormalNum ": 3 ,
    " ServiceName ": " SQOOP ",
    " StoppedNum ": 0 ,
    " TotalNum ": 3
  },
  {
    " AgentHeart BeatLostNum ": 0 ,
    " HealthDetailList ": {
      " HealthDetail ": []
    },
    " HealthLevel ": " NORMAL ",
    " ManualStop pedNum ": 0 ,
    " NormalNum ": 1 ,
    " ServiceName ": " APACHEDS ",
    " StoppedNum ": 0 ,
    " TotalNum ": 1
  },
  {
    " AgentHeart BeatLostNum ": 0 ,
    " HealthDetailList ": {
      " HealthDetail ": []
    },
    " HealthLevel ": " NORMAL ",
    " ManualStop pedNum ": 0 ,
    " NormalNum ": 3 ,
    " ServiceName ": " ILOGTAIL ",
    " StoppedNum ": 0 ,
    " TotalNum ": 3
  },
  {
    " AgentHeart BeatLostNum ": 0 ,
    " HealthDetailList ": {
      " HealthDetail ": []
    },
    " HealthLevel ": " NORMAL ",
    " ManualStop pedNum ": 2 ,
    " NormalNum ": 7 ,
    " ServiceName ": " HDFS ",
    " StoppedNum ": 2 ,
    " TotalNum ": 9
  },
  {
    " AgentHeart BeatLostNum ": 0 ,
    " HealthDetailList ": {
      " HealthDetail ": []
    },
    " HealthLevel ": " NORMAL ",
    " ManualStop pedNum ": 0 ,
    " NormalNum ": 4 ,
    " ServiceName ": " TEZ ",
    " StoppedNum ": 0 ,
    " TotalNum ": 4
  },
  {
    " AgentHeart BeatLostNum ": 0 ,
    " HealthDetailList ": {
      " HealthDetail ": []
    },
    " HealthLevel ": " NORMAL ",
    " ManualStop pedNum ": 0 ,
    " NormalNum ": 5 ,
    " ServiceName ": " SPARK ",

```

```

    " StoppedNum ": 0 ,
    " TotalNum ": 5
  },
  {
    " AgentHeart BeatLostNum ": 0 ,
    " HealthDetailList ":{
      " HealthDetail ":[]
    },
    " HealthLevel ":" NORMAL ",
    " ManualStop pedNum ": 0 ,
    " NormalNum ": 1 ,
    " ServiceName ":" HAPROXY ",
    " StoppedNum ": 0 ,
    " TotalNum ": 1
  },
  {
    " AgentHeart BeatLostNum ": 0 ,
    " HealthDetailList ":{
      " HealthDetail ":[]
    },
    " HealthLevel ":" NORMAL ",
    " ManualStop pedNum ": 0 ,
    " NormalNum ": 6 ,
    " ServiceName ":" PRESTO ",
    " StoppedNum ": 0 ,
    " TotalNum ": 6
  },
  {
    " AgentHeart BeatLostNum ": 0 ,
    " HealthDetailList ":{
      " HealthDetail ":[]
    },
    " HealthLevel ":" NORMAL ",
    " ManualStop pedNum ": 0 ,
    " NormalNum ": 9 ,
    " ServiceName ":" YARN ",
    " StoppedNum ": 0 ,
    " TotalNum ": 9
  },
  {
    " AgentHeart BeatLostNum ": 0 ,
    " HealthDetailList ":{
      " HealthDetail ":[]
    },
    " HealthLevel ":" NORMAL ",
    " ManualStop pedNum ": 0 ,
    " NormalNum ": 5 ,
    " ServiceName ":" EMRFLOW ",
    " StoppedNum ": 0 ,
    " TotalNum ": 5
  },
  {
    " AgentHeart BeatLostNum ": 0 ,
    " HealthDetailList ":{
      " HealthDetail ":[]
    },
    " HealthLevel ":" NORMAL ",
    " ManualStop pedNum ": 0 ,
    " NormalNum ": 1 ,
    " ServiceName ":" KNOX ",
    " StoppedNum ": 0 ,
    " TotalNum ": 1
  },
  {

```

```

    " AgentHeartBeatLostNum ": 0 ,
    " HealthDetailList ":{
      " HealthDetail ":[]
    },
    " HealthLevel ":" NORMAL ",
    " ManualStoppedNum ": 0 ,
    " NormalNum ": 3 ,
    " ServiceName ":" PIG ",
    " StoppedNum ": 0 ,
    " TotalNum ": 3
  },
  {
    " AgentHeartBeatLostNum ": 0 ,
    " HealthDetailList ":{
      " HealthDetail ":[]
    },
    " HealthLevel ":" NORMAL ",
    " ManualStoppedNum ": 0 ,
    " NormalNum ": 5 ,
    " ServiceName ":" HIVE ",
    " StoppedNum ": 0 ,
    " TotalNum ": 5
  },
  {
    " AgentHeartBeatLostNum ": 0 ,
    " HealthDetailList ":{
      " HealthDetail ":[]
    },
    " HealthLevel ":" NORMAL ",
    " ManualStoppedNum ": 0 ,
    " NormalNum ": 1 ,
    " ServiceName ":" 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 ",
  " successResponse ": false
}

```

Error codes

[View error codes.](#)

4.17 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.
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.

Name	Type	Example	Description
ConfigHistoryList			The list of configuration history.
ServiceName	String	TEZ	The name of the service.
ConfigVersion	String	15433205029440	The configuration version represented 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
& AccessKeyId = 111
& ConfigVersion = 0
& PageNumber = 1
& PageSize = 100
& ServiceName = 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.](#)

4.18 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.

Name	Type	Required	Example	Description
PoolType	String	No	CAPACITY_S CHEDULER	The type of the resource pool . Valid values : CAPACITY_S CHEDULER and FAIR_SCH ED ULER.
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.
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_Q UEUE_CONFIG	The type of the configuration item.

Name	Type	Example	Description
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.
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.

Name	Type	Example	Description
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
& AccessKeyId = xxx
& PoolType = CAPACITY_SCHEDULER
&< Common request parameters >
```

• Successful response examples

JSON format

```
{
  "code": "200",
  "data": {
    "PoolInfoList": {
      "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 "
              }
            ]
          }
        }
      ]
    }
  },
  " 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 "
          }
        ]
      }
    }
  ]
}

```

```

    URCE_LIMIT ",
    allocation - mb ",
    UEUE_CONFI G ",
    {
        " Category ":" QUEUE_RESO
        " ConfigKey ":" maximum -
        " ConfigType ":" RESOURCE_Q
        " ConfigValu e ":"",
        " Id ": 2929 ,
        " Note ":"",
        " Status ":" NORMAL "
    },
    {
        " Category ":" QUEUE_RESO
        " ConfigKey ":" maximum -
        " ConfigType ":" RESOURCE_Q
        " ConfigValu e ":"",
        " Id ": 2930 ,
        " Note ":"",
        " Status ":" NORMAL "
    },
    {
        " Category ":" QUEUE_RESO
        " ConfigKey ":" maximum -
        " ConfigType ":" RESOURCE_Q
        " ConfigValu e ":"",
        " Id ": 2931 ,
        " Note ":"",
        " Status ":" NORMAL "
    },
    {
        " Category ":" QUEUE_RESO
        " ConfigKey ":" maximum - am
        " ConfigType ":" RESOURCE_Q
        " ConfigValu e ":"",
        " Id ": 2932 ,
        " Note ":"",
        " Status ":" NORMAL "
    },
    {
        " Category ":" QUEUE_RESO
        " ConfigKey ":" state ",
        " ConfigType ":" RESOURCE_Q
        " ConfigValu e ":" RUNNING
        " Id ": 2933 ,
        " Note ":"",
        " Status ":" NORMAL "
    },
    {
        " Category ":" QUEUE_SUBM
    URCE_LIMIT ",
    allocation - vcores ",
    UEUE_CONFI G ",

    URCE_LIMIT ",
    applicatio ns ",
    UEUE_CONFI G ",

    URCE_LIMIT ",
    - resource - percent ",
    UEUE_CONFI G ",

    URCE_LIMIT ",
    UEUE_CONFI G ",
    ",
    ISSION_ACC ESS_CONTRO L ",

```

```

    _applicati ons ",
    UEUE_CONFI G ",
    " ConfigKey ":" acl_submit
    " ConfigType ":" RESOURCE_Q
    " ConfigValu e ":"",
    " Id ": 2934 ,
    " Note ":"",
    " Status ":" NORMAL "
  },
  {
    " Category ":" QUEUE_ADMI
    " ConfigKey ":" acl_admini
    " ConfigType ":" RESOURCE_Q
    " 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 . OtherUserResource . NotAllow ",
  "message": "It is not allowed to operate other user 's resource ",
  "requestId": "A544317F - 4A60 - 4532 - AC96 - 191B9D8042 0AF",
  "successResponse": false
}
```

Error codes

[View error codes.](#)

4.19 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.
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.

Name	Type	Required	Example	Description
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
& ServiceName = TEZ
& AccessKeyId = 111
& Comment = modify tez config
& ConfigParams = {"tez-site":{"tez-am-resource-memory-mb":"640"}}
& ConfigType = ""
& CustomConfigParams = {"tez-site":{"key1":{"Value":"value1"}}}
& GroupId = G - xxx
& HostInstanceId = 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 ",
  "successResponse ": false
}
```

Error codes

[View error codes.](#)

4.20 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
& AccessKeyId = xxx
& Active = true
& Name = custompool
& Yarnsiteconfig = Yarnsiteconfig
& Config . 1 . Category = DEFAULT_SETTINGS
& Config . 1 . ConfigKey = capacity
& Config . 1 . ConfigValue = 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",
  "successResponse": true
}
```

• Error response examples

JSON format

```
{
  "code": "AuthRealNameNotPass",
  "message": "User real name authentication failed!",
  "requestId": "A544317F - 4A60 - 4532 - AC96 - 191B9D8042 0AF",
  "successResponse": false
}
```

```
}
```

Error codes

[View error codes.](#)

4.21 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 = ModifyResourcePoolSchedulerType
& ClusterId = C-EBD62A703A430E23
& RegionId = cn-hangzhou
& SchedulerType = CAPACITY_SCHEDULER
& AccessKeyId = xxx
&< Common request parameters >
```

• Successful response examples

JSON format

```
{
  "code": "200",
  "requestId": "A544317F-4A60-4532-AC96-191B9D80420A",
  "successResponse": true
}
```

```
}
```

- Error response examples

JSON format

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

Error codes

[View error codes.](#)

4.22 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 = ModifyResourceQueue
& ClusterId = C - 0E995C0EE7 E5ECB3
& Id = 116
& RegionId = cn - hangzhou
& ResourcePoolId = 115
& AccessKeyId = xxx
& Leaf = false
& Name = queue2
& ParentQueueId = 115
& QualifiedName = test
& Config . 1 Category = QUEUE_RESOURCE_LIMIT
& Config . 1 ConfigKey = capacity
& Config . 1 ConfigValue = 100
& Config . 1 . Id = 200
& Config . 1 . Note = capacity_weight

```

< Common request parameters >

- Successful response examples

JSON format

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

- Error response examples

JSON format

```
{
  "code ":" AuthRealNameNotPass ",
  "message ":" User real name authentication failed!",
  "requestId ":" A544317F - 4A60 - 4532 - AC96 - 191B9D8042 0AF ",
  "successResponse ": false
}
```

Error codes

[View error codes.](#)

4.23 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 = RefreshClusterResourcePool
& ClusterId =
& RegionId = cn - hangzhou
& ResourcePoolId = 115
& AccessKeyId = xxx
&< Common request parameters >
```

- Successful response examples

JSON format

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

- Error response examples

JSON format

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

Error codes

[View error codes.](#)

4.24 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
& ServiceActionName = STOP
& AccessKeyId = 111
& Comment = test run action
& ComponentNameList = Tomcat
& CustomCommand = ""
& HostIdList = ""
& Interval = 60
& IsRolling = true
& NodeCountPerBatch = 2
& OnlyRestartStaleConfigNodes = true
& ServiceName = TEZ
& TolerateFailureCount = 5
& TurnOnMaintenanceMode = 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 ",
  "successResponse ": 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-8C1EB0C645 2A82A1	The ID of the job to clone.
ProjectId	String	Yes	FP-53C4D36FC7 310AC0	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 = CloneFlowJob
& 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 ",
  " successResponse ": 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_FAILED ",
  "message ":" Project does not exist [ FP - C05787BC0E
C88258 ]",
  "requestId ":" 11BAFBD8 - 8509 - 4177 - A26D - 407505E737 13 ",
  "successResponse ": 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 description of the workflow.
Name	String	Yes	my_flow_demo	The name of the workflow.
ProjectId	String	Yes	FP-257A173659F59685	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.
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	C-A23BD131A862F184	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	<pre>{ "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": " </pre>	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-F2495319DA 05CEE5	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-7A39731FE7 196358	The ID of the workflow that has been created.

Examples

• Sample requests

```
/? Description="This is a workflow description."
& Name=my_flow_demo
& ProjectId=FP-257A173659-F59685
& RegionId=cn-hangzhou
& AlertDingdingGroupBizId=AUG-c917bbfaf6-494bbfacde-
e69c828496-7c
& AlertUserGroupBizId=ADG-0a00d00abb-7743ff9f81-2f1a997f3d-
87
& ClusterId=C-A23BD131A8-62F184
& CreateCluster=false
& CronExpr=0 0 0 - 23 / 1 * * ?
& EndSchedule=1538018814000
& Graph={"nodes":[{"id":"48d474ea","index":0,"
spmAnchorId":"0.0.0.i0.766645eb2c-mNtQ","attribute
":{"type":"START"},"shape":"startControlNode","type
":"node","y":250,"size":"80*34","x":500},{"id":"
7ba480b3","index":1,"spmAnchorId":"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_STRE AMING, 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 configurat ion 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	<code>{"inputs":[{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic","consumer.group":"kafka_consumer_group"}],"outputs":[{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic"}]}</code>	The configurations of the monitor. *
ParamConf	String	No	<code>{"date":"\${yyyy-MM-dd}"}</code>	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

```
/? Description = This is a job description .
& Name = my_shell_job
& ProjectId = FP - 257A173659 F59685
& RegionId = cn - hangzhou
& Type = SHELL
& Adhoc = false
& ClusterId = C - A23BD131A8 62F184
& EnvConf ={" key ":" value "}
& FailAct = CONTINUE
& MaxRetry = 5
& Mode = YARN
& MonitorConf ={" inputs ":[{" type ":" KAFKA "," clusterId ":"
C - 1234567 "," topics ":" kafka_topic "," consumer . group
":" kafka_consumer_group "}], " outputs ":[{" type ":" KAFKA ","
clusterId ":" C - 1234567 "," topics ":" kafka_topic "}]}}
& ParamConf ={" date ":"${ yyyy - MM - dd }"}
& Params = ls -l
& ParentCategory = FC - 5BD9575E34 623940
& RetryInterval = 200
& RunConf ={" priority ": 1 , " userName ":" hadoop "," memory ":
2048 , " cores ": 1 }
& ResourceLimit . 1 Alias = demo . jar
& ResourceLimit . 1 . Path = oss :// path / demo . jar
&< Common request parameters >
```

• Successful response examples

JSON format

```
{
  " Id ":" FJ - BBCE48B90 CCB37B ",
  " RequestId ":" 2670BCFB - 925D - 4C3E - 9994 - 8D12F7A9F5 38 "
}
```

• Error response examples

JSON format

```
{
  " code ":" FLOW_API_FAILED ",
  " message ":" Invalid job type [ INVALID_TYPE ]",
  " requestId ":" 11BAFBD8 - 8509 - 4177 - A26D - 407505E737 13
",
  " successResponse ": 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 = CreateFlowProject
&Description = This is a project description.
&Name = my_project
&RegionId = cn-hangzhou
&<Common request parameters>
```

- Successful response examples

JSON format

```
{
  "Id": "FP-257A173659F59685",
  "RequestId": "2670BCFB-925D-4C3E-9994-8D12F7A9F538"
}
```

- Error response examples

JSON format

```
{
  "code": "FLOW_API_FAILED",

```

```

" message ":" Invalid project name [ Project name longer
than 256 ]",
" requestId ":" 0AD9FF20 - F585 - 4E0A - 870D - B8A8F884CC E6 ",
" successResponse ": 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 ProjectClusterSetting
& ClusterId = C - DCEE11B49C 8F42B4
& ProjectId = FP - ED2F3E844F E383AA
& RegionId = cn - hangzhou
& DefaultQueue = default
& DefaultUser = 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_FAILED",
  "message": "Cluster host does not exist [[ emr - header - 1 . cluster - 12345 ]]",
  "requestId": "2FEF3292 - 084E - 45D8 - 8D8A - C9B8867B3F 37 ",
  "successResponse": 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-257A173659 F59685	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 = CreateFlowProjectUser  
& 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 ",
  "successResponse ": 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-075AB9477D AE9AAC	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 ",
  "successResponse ": 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-BBCAE48B90 CCB37B	The ID of the job.
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	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 ",
  "successResponse ": 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 ",
  "successResponse ": 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 = DeleteFlowProjectClusterSetting
& 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_FAILED",
  "message": "Project does not exist [FP - E3F1523F8F C1D2E6]",
  "requestId": "11BAFBD8 - 8509 - 4177 - A26D - 407505E737 13",
  "successResponse": 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	<pre>{ "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 } }, { "id": "28167ea0", "index": 3, "source": "48d474ea", "sourceAnchor": 0, "target": "7ba480b3", "targetAnchor": 0 }, { "id": "e8d5ff52", "index": 4, "source": "7ba480b3", "sourceAnchor": 1, "target": "33202d60", </pre>	The graphical information of the workflow.

Name	Type	Example	Description
CategoryId	String	FC-F2495319DA05CEE5	The ID of the workflow category.
AlertConf	String	<pre>{ "items": [{ "enable": true, "eventId": "EMR-210401001", "alertUserGroupIdList": ["AUG-b79bb29bb6e14ddd89674a242623851b", "ADG-af1f9689d6194e2dbd89927d5c515172"], "alertDingDingGroupList": ["ADG-af1f9689d6194e2dbd89927d5c515172"] }, { "enable": true, "eventId": "EMR-110401015", "alertUserGroupIdList": ["AUG-b79bb29bb6e14ddd89674a242623851b", "ADG-af1f9689d6194e2dbd89927d5c515172"], "alertDingDingGroupList": ["ADG-af1f9689d6194e2dbd89927d5c515172"] }, { "enable": true, "eventId": "EMR-110401002", "alertUserGroupIdList": ["AUG-b79bb29bb6e14ddd89674a242623851b", "ADG-af1f9689d6194e2dbd89927d5c515172"], "alertDingDingGroupList": ["ADG-af1f9689d6194e2dbd89927d5c515172"] }] }</pre>	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-c917bbfaf6494bbfacde69c8284967c	The ID of the DingTalk group to send alerts.
Application	String	{"nodeDefMap":{"start":{"name":"","start":"","type":"","start":"","transition s":["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 = DescribeFlow
& 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 ",
  "CreateCluster ": false ,
  "Description ":" flow ",
  "GmtCreate ": 1533294723 000 ,
  "GmtModified ": 1535449545 000 ,
  "Graph ":{
    "edges ":[
      {
        "id ":" af91f6b1 ",
        "index ": 2 ,
        "source ":" 48d474ea ",
        "sourceAnchor ": 0 ,
        "target ":" f2764af5 ",
        "targetAnchor ": 0
      },
      {
        "id ":" 3022d5b9 ",
        "index ": 4 ,
        "source ":" 48d474ea ",
        "sourceAnchor ": 0 ,
        "target ":" ee4ee659 ",
        "targetAnchor ": 0
      },
      {
        "id ":" cfa94eec ",
        "index ": 6 ,
        "source ":" f2764af5 ",
        "sourceAnchor ": 1 ,
        "target ":" 75ba7979 ",
        "targetAnchor ": 0
      },
      {
        "id ":" 00cd608a ",
        "index ": 7 ,
        "source ":" ee4ee659 ",
        "sourceAnchor ": 1 ,
        "target ":" 75ba7979 ",
        "targetAnchor ": 0
      },
      {
        "id ":" c53a4788 ",
        "index ": 9 ,
        "source ":" 75ba7979 ",
        "sourceAnchor ": 1 ,
        "target ":" ea5b3e8f ",
        "targetAnchor ": 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 ",

```

```

    "spmAnchorId ":" 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 ",
  "spmAnchorId ":" 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_SCHEDULE ",
" Type ":" EMR ",
" alertDingdingGroupBizId ":"",
" alertUserGroupBizId ":""
}

```

· Error response examples

JSON format

```

{
  " code ":" FLOW_API_FAILED ",
  " message ":" Flow does not exist [ F - ACB9F1075C 7D62A
  ]",
  " requestId ":" 243D5A48 - 96A5 - 4C0C - 8966 - 93CBF65635 ED ",
  " successResponse ": 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-E3F1523F8F C1D2E6	The ID of the project.

Examples

• Sample requests

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

• Successful response examples

JSON format

```
{
  "code ":" 200 ",
  "data ":{
    "CategoryType ":" FILE ",
    "GmtCreate ": 1541858202 000 ,
    "GmtModified ": 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 ",
  "successResponse ": 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 ",
  "successResponse ": 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	<pre>{ "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": "FE9DC5533695C989B", "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": "FE9DC5533695C989B", "objectType": "FLOW", "children": [], "childrenMap": {} }] } } }</pre>	The tree structure consisting of the node property and the children property.

Examples

- Sample requests

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

- Successful response examples

JSON format

```
{
  "code ":" 200 ",
  "data ":{
    "children ":[
      {
        "children ":[],
        "childrenMap ":{},
        "node ":{
          "categoryType ":" FILE ",
          "gmtCreate ":" 1542855766 000 ",
          "gmtModified ":" 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 ":[],
        "childrenMap ":{},
        "node ":{
          "categoryType ":" FILE ",
          "gmtCreate ":" 1540796206 000 ",
          "gmtModified ":" 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 "
        }
      }
    ],
    "childrenMap ":{
      "FC - 296E3BB949 1E39F2 ":{
        "children ":[],
        "childrenMap ":{},
        "node ":{
          "categoryType ":" FILE ",
          "gmtCreate ":" 1540796206 000 ",
          "gmtModified ":" 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	<pre>{ "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" }] }], "edges": [{ "sourceAnchor": 1, "targetAnchor": 0 }] }</pre>	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 = DescribeFlowInstance
& 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 ,
    "GmtModified ": 1540796247 000 ,
    "Graph ":{
      "edges ":[
        {
          "id ":" 77e6117c ",
          "index ": 3 ,
          "source ":" 48d474ea ",
          "sourceAnchor ": 0 ,
          "target ":" 2f089966 ",
          "targetAnchor ": 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	<code>{"priority":1,"userName":"hadoop","memory":2048,"cores":1}</code>	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	<code>{"inputs":[{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic","consumer.group":"kafka_consumer_group"}],"outputs":[{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic"}]}</code>	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 ",
  "Description ":" shell ",
  "FailAct ":" STOP ",
  "GmtCreate ": 1538017814 000 ,
  "GmtModified ": 1538017814 000 ,
  "Id ":" FJ - C7FB9F1075 C7D62A ",
  "MaxRetry ": 0 ,
  "Name ":" shell_copy ",
  "Params ":" ls - l ",
  "RequestId ":" 7D2B1B2E - 8D89 - 49C1 - 8D31 - 097C83879D 20 ",
  "ResourceList ":{
    "Resource ":[ ]
  },
  "RetryInterval ": 15 ,
  "Type ":" SHELL "
}
```

- Error response examples

JSON format

```
{
  "code ":" FLOW_API_FAILED ",
  "message ":" Flow Job does not exist [ FJ - A10DB75C7D
62A ]",
  "requestId ":" 243D5A48 - 96A5 - 4C0C - 8966 - 93CBF65635 ED ",
  "successResponse ": 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	The 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-7A1018ADE9 179EE1	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	applicatio n_15415595 35023_34027	The ID of the launcher applicatio n.
ExternalSubId	String	container_ 1541559535 023_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	<code>{"inputs":[{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic","consumer_group":"kafka_consumer_group"}],"outputs":[{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic"}]}</code>	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 = DescribeFlowNodeInstance
& Id = node_instance_id
& ProjectId = FP - 7A1018ADE9 - 179EE1
& RegionId = cn - hangzhou
&< Common request parameters >
```

• Successful response examples

JSON format

```
{
  "code ":" 200 ",
  "data ":{
    " ClusterId ":" C - F32FB31D82 - 954C64 ",
    " ClusterName ":" 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 ;\ nextit 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 [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 = DescribeFlowNodeInstanceContainerLog
& AppId = application_15426209_05989_0010
& ContainerId = container_1542620905_989_0010_0_1_000001
& LogName = stderr
& NodeInstanceId = 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 [
RMCommunicator Allocator ] org . apache . hadoop . yarn .
util . RackResolver : Resolved emr - worker - 1 . cluster -
500160492 to / default - rack "
        },
        {
          "Content ":" 2018 - 11 - 19 17 : 55 : 11 , 793 INFO [
RMCommunicator 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
NodeInstan ceId	String	Yes	FNI- 0D2534B3AB 675B63	The ID of the node instance.
ProjectId	String	Yes	FP- BECB9D35CB 121F32	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 = DescribeFlowNodeInstanceLaunchLog
& NodeInstanceId = 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 ,
    "LogEntry ":{
      "LogEntry ":[
        {
          "Content ":" Fri Nov 16 09 : 56 : 00 CST 2018 [
LocalJobLauncherAM ] 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 ",
  "successResponse ": true
}
```

- Error response examples

JSON format

```
{
  "code ":" FLOW_API_FAILED ",
  "message ":" flow instance does not exist [ FNI -
2DC5BBC3D4 7FE45 ]",
  "requestId ":" 2D695EEA - DB91 - 498B - B974 - 464BCED329 3B ",
  "successResponse ": 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-5D55DA9DED F22ED3	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-5D55DA9DED F22ED3	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 = DescribeFlowProject
& ProjectId = FP - 5D55DA9DED F22ED3
& RegionId = cn - hangzhou
&< Common request parameters >
```

- Successful response examples

JSON format

```
{
  "code ":" 200 ",
  "data ":{
    "Description ":" integratio n_test_pro ject ",
    "GmtCreate ": 1542934807 000 ,
    "GmtModified ": 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 ",
  "successResponse ": true
}
```

- Error response examples

JSON format

```
{
  "code ":" FLOW_API_FAILED ",
  "message ":" Project does not exist [ FP - 3535FE0BE5
224A4 ]",
  "requestId ":" 93F6F3CF - B2AE - 411A - 948F - 0F7293058C F5 ",
  "successResponse ": 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 = DescribeFlowProjectClusterSetting  
& 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 ",
    " DefaultQueue ":" undefined ",
    " DefaultUser ":" hadoop ",
    " GmtCreate ": 1541561123 000 ,
    " GmtModified ": 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 ",
  "successResponse ": true
}
```

- **Error response examples**

JSON format

```
{
  "code ":" FLOW_API_FAILED ",
  "message ":" Project does not exist [ FP - 3535FE0BE5 224A47 ]",
  "requestId ":" 93F6F3CF - B2AE - 411A - 948F - 0F7293058C F5 ",
  "successResponse ": 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 = KillFlowJob
& JobInstanceId = 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 ",
  "successResponse ": 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	<pre>{ "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 } }, { "id": "28167ea0", "index": 3, "source": "48d474ea", "sourceAnchor": 0, "target": "7ba480b3", "targetAnchor": 0 }, { "id": "e8d5ff52", "index": 4, "source": "7ba480b3", "sourceAnchor": 1, "target": "33202d60", </pre>	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 ",
      " CreateCluster ": false ,
      " CronExpr ":" 0 0 0 * * ? ",
      " Description ":" daily_0 ",
      " EndSchedule ": 4102416001 000 ,
      " GmtCreate ": 1541561048 000 ,
      " GmtModified ": 1542902401 000 ,
      " HostName ":"",
      " Id ":" F - D156B45E06 F1CA8E ",
      " Name ":" daily_0 ",
      " Periodic ": true ,
      " ProjectId ":" FP - 3535FE0BE5 224A47 ",
      " StartSchedule ": 1541561443 000 ,
      " Status ":" UNDER_SCHEDULE ",
      " 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 ",
  " successResponse ": 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-5D55DA9DED F22ED3	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-2E6ABBD39B D09F97	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 ":{
    " ClusterInfo ":[
      {
        " ChargeType ":" PostPaid ",
        " CreateResource ":" ECM_EMR ",
        " CreateTime ":" 1542953603 000 ",
        " FailReason ":{},
        " HasUncompletedOrder ": false ,
        " Id ":" C - 4042079DFF 01A3F5 ",
        " Name ":" zx - presto - 1 ",
        " OrderTaskInfo ":{},
        " RunningTime ": 1322 ,
        " Status ":" IDLE ",
        " Type ":" HADOOP "
      },
      {
        " ChargeType ":" PostPaid ",
        " CreateResource ":" ECM_EMR ",
        " CreateTime ":" 1542950611 000 ",
        " FailReason ":{},
        " HasUncompletedOrder ": false ,
        " Id ":" C - 3D0B532535 95DBB0 ",
        " Name ":" zx - presto - 213 ",
        " OrderTaskInfo ":{},

```

```

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

```

- **Error response examples**

JSON format

```

{
  " Clusters ":{
    " ClusterInfo ":[
      {
        " ChargeType ":" PostPaid ",
        " CreateResource ":" ECM_EMR ",
        " CreateTime ": 1542953603000 ,
        " FailReason ":{},
        " HasUncompletedOrder ": false ,
        " Id ":" C - 4042079DFF01A3F5 ",
        " Name ":" zx - presto - 1 ",
        " OrderTaskInfo ":{},
        " RunningTime ": 1322 ,
        " Status ":" IDLE ",
        " Type ":" HADOOP "
      },
      {
        " ChargeType ":" PostPaid ",
        " CreateResource ":" ECM_EMR ",
        " CreateTime ": 1542950611000 ,
        " FailReason ":{},
        " HasUncompletedOrder ": false ,
        " Id ":" C - 3D0B53253595DBB0 ",
        " Name ":" zx - presto - 213 ",
        " OrderTaskInfo ":{},
        " RunningTime ": 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.
HasUncompletedOrder	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 = ListFlowClusterAll
& RegionId = cn - hangzhou
&< Common request parameters >
```

• Successful response examples

JSON format

```
{
  " Clusters ":{
    " ClusterInfo ":[
      {
        " ChargeType ":" PostPaid ",
```

```

    " CreateResource ":" ECM_EMR ",
    " CreateTime ": 1542953603 000 ,
    " FailReason ":{},
    " HasUncompletedOrder ": false ,
    " Id ":" C - 4042079DFF 01A3F5 ",
    " Name ":" zx - presto - 1 ",
    " OrderTaskInfo ":{},
    " RunningTime ": 1322 ,
    " Status ":" IDLE ",
    " Type ":" HADOOP "
  },
  {
    " ChargeType ":" PostPaid ",
    " CreateResource ":" ECM_EMR ",
    " CreateTime ": 1542950611 000 ,
    " FailReason ":{},
    " HasUncompletedOrder ": false ,
    " Id ":" C - 3D0B532535 95DBB0 ",
    " Name ":" zx - presto - 213 ",
    " OrderTaskInfo ":{},
    " RunningTime ": 4314 ,
    " Status ":" IDLE ",
    " Type ":" HADOOP "
  }
]
},
" PageNumber ": 1 ,
" PageSize ": 10 ,
" TotalCount ": 2
}

```

• Error response examples

JSON format

```

{
  " code ":" FLOW_API_FAILED ",
  " message ":" Project does not exist [ FP - 3535FE0BE5
224A4 ]",
  " requestId ":" 93F6F3CF - B2AE - 411A - 948F - 0F7293058C F5 ",
  " successResponse ": 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-bp1agi4417dx08sig82j	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 ",
      "SerialNum b 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 ",
  "successResponse ": 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

```
{
  "FlowInstances": {
    "FlowInstance": [
      {
        "ClusterId": "C - A6C9F4F1E9 EC88D9 ",
        "Duration": 32000 ,
        "EndTime": 1542963033 000 ,
        "FlowId": "F - 9C8D2BEC4D 3803BC ",
        "FlowName": "success + fail ",
        "GmtCreate": 1542963000 000 ,
        "GmtModified": 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 ,
        "GmtModified": 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-257A173659F59685	The ID of the project.
Id	String	No	FJ-BCCAE48B90CCB37B	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 configurations.

Name	Type	Example	Description
MonitorConf	String	<code>{"inputs":[{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic","consumer_group":"kafka_consumer_group"}],"outputs":[{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic"}]}</code>	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 = ListFlowJobs
& ProjectId = FP - 257A173659 F59685
& RegionId = cn - hangzhou
& Id = FJ - BCCAE48B90 CCB37B
& Name = my_shell_job
& 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-BCCAE48B90 CCB37B	The ID of the job.
ProjectId	String	Yes	FP-257A173659 F59685	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-9D14A7CCF2 687B84	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-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	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-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-3535FE0BE5 224A47	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	applicatio n_15415595 35023_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

```
{
  "NodeInstances":{
```

```

" NodeInstance ":[{
  " ClusterId ":" C - A6C9F4F1E9 EC88D9 ",
  " EndTime ": 1542957514 000 ,
  " ExternalId ":" applicatio n_15429556 85866_0003 ",
  " ExternalInfo ":"",
  " ExternalStatus ":" SUCCESS ",
  " FailAct ":" STOP ",
  " GmtCreate ": 1542957499 000 ,
  " GmtModified ": 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 ,
  " RetryInterval ": 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_FAILED ",
  " message ":" Project does not exist [ FP - 3535FE0BE5
224A4 ]",
  " requestId ":" 83B256D4 - 4E95 - 454B - AD08 - 799DF31D55 56 ",
  " successResponse ": false
}

```

Error codes

[View error codes.](#)

5.34 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.
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

Name	Type	Example	Description
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 ContainersS tatus
& NodeInstan ceId = FNI - FE4BD156E9 39CF1F
& ProjectId = 7A1018ADE9 179EE1
& RegionId = cn - hangzhou
& PageNumber = 1
& PageSize = 20
&< Common request parameters >
```

• Successful response examples

JSON format

```
{
  "ContainersS tatusList ":{
    "ContainersS 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.](#)

5.35 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.

Name	Type	Example	Description
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 deSqlResult
& NodeInstanceId = 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.avgduration"
    ]
  },
  "RequestId": "90F14544 - 832D - 4D81 - 8F8C - 8F8547AE5B 9D",
  "RowList": {
    "Row": [
      {
        "RowIndex": 0,
        "RowItemList": {
          "rowItem": [
            "1",
            "1",
            "1"
          ]
        }
      },
      {
        "RowIndex": 1,
        "RowItemList": {
          "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 ",
  "successResponse ": false
}
```

Error codes

[View error codes.](#)

5.36 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.
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 = ListFlowProject
& 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.](#)

5.37 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-ED2F3E844F E383AA	The ID of the project.
RegionId	String	Yes	cn-hangzhou	The ID of the region.

Name	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.

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.
ClusterId	String	C-DCEE11B49C8F42B4	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.

Name	Type	Example	Description
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 = ListFlowProjectClusterSetting
& ProjectId = FP - ED2F3E844F E383AA
& RegionId = cn - hangzhou
& PageNumber = 1
& PageSize = 20
&< Common request parameters >
```

• Successful response examples

JSON format

```
{
  "ClusterSetttings":{
    "ClusterSettting":[{
      "ClusterId ":" C - F32FB31D82 954C64 ",
      "ClusterName ":" mingbo - v199v1 ",
      "DefaultUser ":" hadoop ",
      "GmtCreate ": 1540811745 000 ,
      "GmtModified ": 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 ",
  "successResponse ": false
}
```

Error codes

[View error codes.](#)

5.38 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.

Name	Type	Example	Description
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-3535FE0BE5 224A47	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 = ListFlowProjectUser
& 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 ",
  "successResponse ": false
}
```

Error codes

[View error codes.](#)

5.39 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	<pre>{ "items": [{ "enable": true, "eventId": "EMR-210401001", "alertUserGroupIdList": ["AUG-b79bb29bb6e14ddd89674a242623851b"], "alertDingDingGroupIdList": ["ADG-af1f9689d6194e2dbd89927d5c515172"] }, { "enable": true, "eventId": "EMR-110401015", "alertUserGroupIdList": ["AUG-b79bb29bb6e14ddd89674a242623851b"], "alertDingDingGroupIdList": ["ADG-af1f9689d6194e2dbd89927d5c515172"] }, { "enable": true, "eventId": "EMR-110401002", "alertUserGroupIdList": ["AUG-b79bb29bb6e14ddd89674a242623851b"], "alertDingDingGroupIdList": ["ADG-af1f9689d6194e2dbd89927d5c515172"] }] }</pre>	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 description 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.currentTimeMillis() method.

Name	Type	Required	Example	Description
Graph	String	No	<pre>{ "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": " </pre>	The graphical information of the workflow.
346			<pre> </pre>	Issue: 20190611

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-F2495319DA 05CEE5	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 "," alertUserGroupList ":" AUG - b79bb29bb6
e14ddd8967 4a24262385 1b "}," alertDingdingGroupList ":" ADG
- af1f9689d6 194e2dbd89 927d5c5151 72 "}],{" enable ": true ,"
eventId ":" EMR - 110401015 "," alertUserGroupList ":" AUG -
b79bb29bb6 e14ddd8967 4a24262385 1b "}," alertDingdingGroupList
":" ADG - af1f9689d6 194e2dbd89 927d5c5151 72 "}],{" enable
": true ," eventId ":" EMR - 110401002 "," alertUserGroupList
":" AUG - b79bb29bb6 e14ddd8967 4a24262385 1b "}," alertDingdingGroupList
":" ADG - af1f9689d6 194e2dbd89 927d5c5151 72
"}]}
& ClusterId = A23BD131A8 62F184
& CreateCluster = false
& CronExpr = 0 0 0 - 23 / 1 * * ?
& Description = " This is a workflow description ."
& EndSchedule = 1538018814 000
& Graph ={" nodes ":[{" id ":" 48d474ea "," index ": 0 ,"
spmAnchorId ":" 0 . 0 . 0 . i0 . 766645eb2c mNtQ "," attribute
":{" type ":" START "}," shape ":" startControlNode "," type
":" node "," y ": 250 ," size ":" 80 * 34 "," x ": 500 }},{ " id ":"
7ba480b3 "," index ": 1 ," spmAnchorId ":" 5176 . 8250060 . 0
. i19 . 771e28d0IP NQGE "," attribute ":{" jobType ":" SHELL ","
jobId ":" FJ - 7BE1062897 B19D25 "," 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 . 771e28d0IP NQGE "," 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 "," targetAnchor ":" 0 }]]}
& HostName = emr - header - 1 . cluster - 123456
& Name = my_flow
& ParentCategory = FC - F2495319DA 05CEE5
& ParentFlowList = [ F - 123456 ]
& Periodic = true
& StartSchedule = 1538017814 000
& Status = STOP_SCHEDULE
&< 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.](#)

5.40 ModifyFlowProject

You can call this operation to modify 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.
Description	String	No	my_flow_de scription	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
& Description = " my flow description "
& 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_FAILED",
  "message": "project not exist",
  "requestId": "11BAFBD8 - 8509 - 4177 - A26D - 407505E737 13",
  "successResponse": false
}
```

Error codes

[View error codes.](#)

5.41 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	<code>{"inputs":{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic","consumer.group":"kafka_consumer_group"},"outputs":{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic"}}</code>	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	<code>{"date":"\${yyyy-MM-dd}"}</code>	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
& Description = "This is a job description ."
& EnvConf = {" key ":" value "}
& FailAct = CONTINUE
& MaxRetry = 5
& Mode = YARN
```

```
& MonitorConf={"inputs":[{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic","consumer.group":"kafka_consumer_group"}],"outputs":[{"type":"KAFKA","clusterId":"C-1234567","topics":"kafka_topic"}]}
& Name = my_shell_job
& ParamConf={"date":"${yyyy-MM-dd}" }
& Params = ls -l
& ResourceLimit.1.Alias = demo.jar
& ResourceLimit.1.Path = oss://path/demo.jar
& RetryInterval = 200
& RunConf={"priority":1,"userName":"hadoop","memory":2048,"cores":1}
&< Common request parameters >
```

- **Successful response examples**

JSON format

```
{
  "Data": true,
  "RequestId": "ECC2D0D1-B6D5-468D-B698-30E8805EB574"
}
```

- **Error response examples**

JSON format

```
{
  "code": "FLOW_API_FAILED",
  "message": "Invalid job type [INVALID_TYPE]",
  "requestId": "11BAFBD8-8509-4177-A26D-407505E73713",
  "successResponse": false
}
```

Error codes

[View error codes.](#)

5.42 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
& FlowInstanceId = 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 ",
  "successResponse ": false
}
```

```
}
```

Error codes

[View error codes.](#)

5.43 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
& FlowInstanceId = 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 ",
" successResponse ": true
}
```

Error codes

[View error codes.](#)

5.44 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	{"cycetime":"1542783967503"}	The configurations of parameters. cycetime: 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.](#)

5.45 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-9DDAAA3ADA5F6FA2	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.](#)

5.46 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 = SuspendFlow
& FlowInstanceId = FI-9DDAAA3ADA5F6FA2
& ProjectId = FP-3535FE0BE5224A47
& RegionId = cn-hangzhou
&<Common request parameters>
```

- Successful response examples

JSON format

```
{
  "Data": true,
  "RequestId": "B46F8A2A-B46B-415C-8A9C-B01B99B775A2"
```

```
}
```

- **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-90D5FC26DA8C7CA7" ," J-A5B1F503752DE01F"].
CreateClusterOnDemand	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=CreateExecutionPlan
&ClusterName=Test
&ClusterType=HADOOP
&LogEnable=false
&SecurityGroupId=sg-234r6xoqe
&IsOpenPublicIp=true
&ZoneId=cn-hangzhou-b
&EmrVersion=EMR-1.1.0
&EcsOrder=[{"nodeCount":3,"nodeType":"master","instanceType":"ecs.n1.large","diskType":"CLOUD_EFFICIENCY","diskCapacity":80}]
&MasterIndex=1
&Name=MyJobFlow
&StartTime=1497516900000
&TimeInterval=1
&Strategy=RUN_MANUALLY
&CreateClusterOnDemand=true
&JobIdList=%5B%22J-90D5FC26DA8C7CA7%22%2C%22J-A5B1F503752DE01F%22%5D
&RegionId=cn-hangzhou
&CommonRequestParameters
```

• Sample responses

JSON format

```
{
  "RequestId": "34B08619-2636-49F9-AB4E-CD8D347B1E07",
  "Id": "WF-13A570B821D4BAB3"
}
```

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 information about the cluster. If <code>CreateClusterOnDemand==true</code> , this value is returned.

Examples

• Sample requests

```
https://emr.aliyuncs.com/?Action=DescribeExecutionPlans
&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=ListExecutionPlans
&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 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.
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 information of the ECS instances contained by the cluster is in JSON format . For example, [{"nodeCount":3, "nodeType": "MASTER", "instanceType": "ecs.n1.large", "diskType": "CLOUD_EFFICIENCY", "diskCapacity": 80, diskCount": 1}]
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	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 = ModifyExecutionPlan
& Id = WF - 13A570B821 D4BAB3
& CreateClusterOnDemand = 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
& TimeInterval = 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=DeleteExecutionPlan
&Id=WF-13A570B821-D4BAB3
&RegionId=cn-hangzhou
```

- Sample responses

JSON format

```
{
  "RequestId": "34B08619-2636-49F9-AB4E-CD8D347B1E07"
}
```

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=RunExecutionPlan
&Id=WF-13A570B821-D4BAB3
&RegionId=cn-hangzhou
```

- Sample responses

JSON format

```
{
  "RequestId": "34B08619-2636-49F9-AB4E-CD8D347B1E07"
}
```

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=ResumeExecutionPlanScheduler
&Id=WF-13A570B821-D4BAB3
&RegionId=cn-hangzhou
&Common request parameters
```

- Sample responses

JSON format

```
{
  "RequestId": "34B08619-2636-49F9-AB4E-CD8D347B1E07"
}
```

```
}
```

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=SuspendExecutionPlanScheduler
&Id=WF-13A570B821-D4BAB3
&RegionId=cn-hangzhou
```

- Sample responses

JSON format

```
{
  "RequestId": "34B08619-2636-49F9-AB4E-CD8D347B1E07"
}
```

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-5D93B0090173ABCD”]
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=ListExecutionPlanInstances
&ExecutionPlanIdList=%5B%22WF-5D93B00901730B5E%22%2C%22WF-5D93B0090173ABCD%22%5D
&OnlyLastInstance=true
&PageNumber=1
&PageSize=50
&RegionId=cn-hangzhou
&CommonRequestParameters
```

- 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=ListJobExecutionInstances
&ExecutionPlanInstanceId=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=KillExecutionJobInstance
&JobInstanceId=WNE-F18B014FF4-10410F
&RegionId=cn-hangzhou
&CommonRequestParameters
```

- Sample responses

JSON format

```
{
  "RequestId": "34B08619-2636-49F9-AB4E-CD8D347B1E07"
}
```

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=ListJobInstanceWorkers
&JobInstanceId=500006685
&RegionId=cn-hangzhou
```

& Common request parameters

· Sample responses

JSON format

```
{
  "JobInstanceWorkers": {
    "JobInstanceWorkerInfo": [
      {
        "ApplicationId": "application_1458791367888_0002",
        "ContainerInfo": "container_1458791367888_0002_02_000001",
        "InstanceInfo": "10.24.28.118"
      },
      {
        "ApplicationId": "application_1458791367888_0002",
        "ContainerInfo": "container_1458791367888_0002_01_000002",
        "InstanceInfo": "10.24.28.11"
      },
      {
        "ApplicationId": "application_1458791367888_0002",
        "ContainerInfo": "container_1458791367888_0002_02_000002",
        "InstanceInfo": "10.24.28.11"
      },
      {
        "ApplicationId": "application_1458791367888_0002",
        "ContainerInfo": "container_1458791367888_0002_01_000001",
        "InstanceInfo": "10.24.28.118"
      }
    ]
  },
  "RequestId": "0C6F1167-4807-4503-B63F-8EDCB26E0BEE"
}
```

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=DescribeJob
&Id=J-13A570B821D4BAB3
```

```
& 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 ",
  " RunParameter ": "- 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	<i>The status of the cluster.</i>
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 implemented 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

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	Apache Hadoop.
HBASE	Apache HBase.

- 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.
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.
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	The instance is running.
JOB_INSTANCE_SUCCESS	The instance runs successfully.
JOB_INSTANCE_FAILED	The instance fails to run.
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.

9 API reference
