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ApsaraDB for MongoDB
API Reference

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Document conventions

Style	Description	Example
 Danger	A danger notice 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.
 Warning	A warning notice 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 restart an instance.
 Notice	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	 Notice: If the weight is set to 0, the server no longer receives new requests.
 Note	A note indicates supplemental instructions, best practices, tips, and other content.	 Note: You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click Settings> Network> Set network type .
Bold	Bold formatting is used for buttons , menus, page names, and other UI elements.	Click OK .
Courier font	Courier font is used for commands	Run the <code>cd /d C:/window</code> command to enter the Windows system folder.
<i>Italic</i>	Italic formatting is used for parameters and variables.	<code>bae log list --instanceid</code> <i>Instance_ID</i>
[] or [a b]	This format is used for an optional value, where only one item can be selected.	<code>ipconfig [-all -t]</code>
{} or {a b}	This format is used for a required value, where only one item can be selected.	<code>switch {active stand}</code>

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1. Common parameters

Common request parameters

Common request parameters must be included in all AnalyticDB for PostgreSQL API requests.

Common request parameters

Parameter	Type	Required	Description
Format	String	Yes	The format in which to return the response. Valid values: JSON and XML. Default value: XML.
Version	String	Yes	The API version, in the format of YYYY-MM-DD. The current version is 2015-12-01.
AccessKeyId	String	Yes	The AccessKey ID provided to you by Alibaba Cloud.
Signature	String	Yes	The signature string of the current request.
SignatureMethod	String	Yes	The encryption method of the signature string. Set the value to HMAC-SHA1.
Timestamp	String	Yes	<ul style="list-style-type: none">• The timestamp at which you send the request. Specify the time in the ISO 8601 standard.• The format is YYYY-MM-DDThh:mm:ssZ. Example: 2016-01-01T12:00:00Z.
SignatureVersion	String	Yes	The version of the signature encryption algorithm. Set the value to 1.0.

Parameter	Type	Required	Description
SignatureNonce	String	Yes	A unique random number used to prevent replay attacks. You must use different numbers for different requests.

Sample requests

```
https://mongodb.aliyuncs.com/?Action=<API Name>
?Format=json
&Version=2015-12-01
&Signature=Pc5WB8gokVn0xfeu%2FZV%2BiNM1dgI%3D
&SignatureMethod=HMAC-SHA1
&SignatureNonce=15215528852396
&SignatureVersion=1.0
&AccessKeyId=key-test
&Timestamp=2016-01-01T12:00:00Z
```

Common response parameters

When you call an operation, the system returns the globally unique identifier (GUID) of the request through the RequestId parameter, regardless of whether the request is successful.

Sample responses

```
<?xml version="1.0" encoding="utf-8"?>
<!--Result Root Node-->
<Interface Name+Response>
<!--Return Request Tag-->
<RequestId>4C4fdsf38-3910-447D-87AD-AC078932216</RequestId>
<!--Return Result Data-->
</Interface Name+Response>
```

Returned results

API responses use the HTTP response format:

- A 2xx status code indicates a successful call.
- A 4xx or 5xx status code indicates a failed call.

Responses can be returned in either the JSON or XML format. You can specify the response format in the request. The default response format is XML.

 **Note** The response examples in this section have been formatted with line breaks or indents for a clear view. The actual responses are not properly formatted as these examples.

Sample success responses

XML format

The responses in the XML format include the result of the request and the details of the operation.
Example:

```
<?xml version="1.0" encoding="utf-8"?>
<!--Result Root Node-->
<Interface Name+Response>
<!--Return Request Tag-->
<RequestId>4C4fdsf38-3910-447D-87AD-AC078932216</RequestId>
<!--Return Result Data-->
</Interface Name+Response>
```

JSON format

```
{
  "RequestId": "4C4fdsf38-3910-447D-87AD-AC078932216",
  /* Return Result Data */
}
```

Sample error responses

If an error occurs when you call an API operation, no result data is returned. You can locate the cause of the error by referring to **Error codes** in Appendix. If an error occurs when you call an API operation, a 4XX or 5XX HTTP status code is returned. The returned message includes the specific error code and message, a globally unique request ID (RequestId), and the ID of the site you accessed with this request (HostId).

If you cannot locate the cause of the error, contact Alibaba Cloud customer service and provide them with HostId and RequestId to help solve the problem.

XML format

```
<?xml version="1.0" encoding="UTF-8"?>
<Error>
<RequestId>8906582E-6722-409A-A6C4-0E7863B733A5</RequestId>
<HostId> mongodb.aliyuncs.com</HostId>
<Code>UnsupportedOperation</Code>
<Message>The specified action is not supported.</Message>
</Error>
```

JSON format

```
{
  "RequestId": "7463B73D-35CC-4D19-A010-6B8D65D242EF",
  "HostId": " mongodb.aliyuncs.com",
  "Code": "UnsupportedOperation",
  "Message": "The specified action is not supported."
}
```

2.Request syntax

ApsaraDB for MongoDB allows you to send URL-based requests by using the HTTP or HTTPS GET method. You must add parameters to a request based on the operation description. Then, ApsaraDB for MongoDB returns the result.

Endpoints

The following table lists the endpoints of ApsaraDB for MongoDB.

Region	Endpoint
China (Hangzhou), China (Shanghai), China (Qingdao), China (Beijing), China (Ulanqab), China (Shenzhen), China (Heyuan), China (Hong Kong), Singapore (Singapore), US (Silicon Valley), and US (Virginia)	mongodb.aliyuncs.com
China (Nanjing)	mongodb.cn-nanjing.aliyuncs.com
China (Zhangjiakou)	mongodb.cn-zhangjiakou.aliyuncs.com
China (Hohhot)	mongodb.cn-huhehaote.aliyuncs.com
China (Guangzhou)	mongodb.cn-guangzhou.aliyuncs.com
China (Chengdu)	mongodb.cn-chengdu.aliyuncs.com
Australia (Sydney)	mongodb.ap-southeast-2.aliyuncs.com
Malaysia (Kuala Lumpur)	mongodb.ap-southeast-3.aliyuncs.com
Indonesia (Jakarta)	mongodb.ap-southeast-5.aliyuncs.com
Japan (Tokyo)	mongodb.ap-northeast-1.aliyuncs.com
Philippines (Manila)	mongodb.ap-southeast-6.aliyuncs.com
India (Mumbai)	mongodb.ap-south-1.aliyuncs.com
Germany (Frankfurt)	mongodb.eu-central-1.aliyuncs.com
UK (London)	mongodb.eu-west-1.aliyuncs.com
UAE (Dubai)	mongodb.me-east-1.aliyuncs.com

Protocols

You can send API requests over HTTP or HTTPS. For secure communication, we recommend that you use HTTPS.

Methods

You can call an API operation by sending an HTTP GET request. If you use this method, the request parameters must be included in the request URL.

Parameters

Each request must specify the operation to be performed (such as CreateDBInstance) in the Action parameter. Request parameters include both common parameters and operation-specific parameters.

Encoding

Requests and responses are encoded in UTF-8.

3.Request signatures

ApsaraDB for MongoDB performs identity authentication on each access request. Therefore, all HTTP and HTTPS requests must contain the signature information. ApsaraDB for MongoDB implements symmetric encryption through the Access Key ID and Access Key secret to authenticate the request sender.

AccessKey pairs are issued by Alibaba Cloud. You can visit the Alibaba Cloud International site (alibabacloud.com) to apply for and manage an AccessKey pair. The AccessKey ID is used to verify the identity of the user, whereas the AccessKey secret is used to encrypt and verify the signature string. You must keep your AccessKey secret strictly confidential. To sign a request, perform the following steps:

1. Create a canonicalized query string by arranging the request parameters.
 - i. Arrange the request parameters, including all common request parameters and operation-specific parameters except Signature, in alphabetical order.

Note When you use the GET method to submit a request, the request parameters are included as a part of the URI. The request parameters in the URI are between the question mark (?) and the ampersand (&).
 - ii. Encode the name and value of each request parameter. URL encode parameter names and values based on the UTF-8 character set. The URL encoding rules are described as follows:
 - a. Uppercase letters, lowercase letters, digits, and some special characters such as hyphens (-), underscores (_), periods (.), and tildes (~) do not need to be encoded.
 - b. Other characters must be percent encoded in the %XY format. XY represents the ASCII code of the characters in hexadecimal notation. For example, double quotation marks ("") are encoded as %22.
 - c. Extended UTF-8 characters are encoded in the %XY%ZA... format. Spaces must be encoded as %20. Do not encode spaces as plus signs (+).
 - iii. Connect the encoded name and value of each parameter with an equal sign (=).
 - iv. Arrange the encoded parameters in alphabetical order based on the first letter of the name of each parameter and connect the parameters with ampersands (&) to create a canonicalized query string.
2. Create a string-to-sign from the encoded canonicalized query string based on the following rules:

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

Note:

- o HTTPMethod: specifies the HTTP method that is used to send a request, such as GET.

- percentEncode("/"): encodes the forward slashes (/) based on the URL encoding rules described in Step 1.ii. The encoded value of a forward slash (/) is %2F.
 - percentEncode(CanonicalizedQueryString): encodes the canonicalized query string that is created in Step 1 based on the URL encoding rules described in Step 1.ii.
3. Calculate the hash-based message authentication code (HMAC) value of the string-to-sign based on the HMAC algorithm that is described in RFC 2104.

② Note The key that is used to calculate the signature is the AccessKey secret appended with an ampersand (&) (ASCII: 38). Secure Hash Algorithm 1 (SHA1) is used in the calculation.

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

② Note When the signature string is submitted to the RDS server as the final request parameter value, the string must be URL-encoded like other parameters based on rules defined in RFC 3986.

In this example, the DescribeDBInstances operation is called. The following code is a request URL that does not contain the Signature parameter:

```
http://mongodb.aliyuncs.com/?Timestamp=2016-01-01T10:33:56Z&Format=XML&AccessKeyId=testid&Action=DescribeInstances&SignatureMethod=HMAC-SHA1&RegionId=region1&SignatureNonce=NwDAxvLU6tFE0DVb&Version=2015-12-01&SignatureVersion=1.0
```

The following string is the string-to-sign:

```
GET&%2F&AccessKeyId%3Dtestid&Action%3DDescribeInstances&Format%3DXML&RegionId%3Dregion1&SignatureMethod%3DHMAC-SHA1&SignatureNonce%3DNwDAxvLU6tFE0DVb&SignatureVersion%3D1.0&TimeStamp%3D2016-01-01T10%253A33%253A56Z&Version%3D2015-01-01
```

Assume that the AccessKey ID is testid, the AccessKey secret is testsecret, and the key used for HMAC calculation is testsecret&. The following signature string is obtained:

```
BIPOMlu8LXBeZtLQkJTw6iFvw1E=
```

The following URL is the signed request URL after the Signature parameter is added:

```
http://mongodb.aliyuncs.com/?Timestamp=2016-01-01T10%3A33%3A56Z&Format=XML&AccessKeyId=testid&Action=DescribeInstances&SignatureMethod=HMAC-SHA1&RegionId=region1&SignatureNonce=NwDAxvLU6tFE0DVb&SignatureVersion=1.0&Version=2015-12-01&Signature=BIPOMlu8LXBeZtLQkJTw6iFvw1E%3D
```

4. How to use RAM authorization

4.1. Use RAM to authorize ApsaraDB for MongoDB resources

Resource Access Management (RAM) allows you to grant RAM users the access and management permissions on RDS resources owned by an Apsara Stack tenant account.

All instances created by an Alibaba Cloud account are resources owned by that account. By default, an Alibaba Cloud account has full permissions on resources that belong to the account.

If you do not want to use RAM, ignore this topic.

References

[How to configure RAM user permissions on ApsaraDB for MongoDB](#)

4.2. ApsaraDB for MongoDB resource types that can be authorized

For ApsaraDB for MongoDB, only instances can be authorized in RAM. The following table describes the Alibaba Cloud Resource Name (ARN) formats in authorization policies.

Resource type	ARN format
Instance	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid acs:dds:\$regionid:\$accountid:dbinstance/ acs:dds:::dbinstance/

Parameters in the ARN formats:

- The \$regionid field must be set to a region ID or an asterisk (*).
- The \$instanceid field must be set to an instance ID or an asterisk (*).
- The \$account-id field indicates the numeric ID of your account, which can be replaced by an asterisk (*).

4.3. API operations that can be authorized in RAM

In the RAM console, you can authorize RAM users to call the following operations on an ApsaraDB for MongoDB resource.

API operation	API operation
CreateDBInstance	ModifyDBInstanceStateSpec

API operation	API operation
DeleteDBInstance	RenewDBInstance
CreateShardingDBInstance	DeleteNode
ModifyNodeSpec	CreateNode
RestartDBInstance	ModifyDBInstanceMaintainTime
ModifyDBInstanceDescription	DescribeDBInstanceAttribute
DescribeReplicaSetRole	DescribeShardingNetworkAddress
ModifyDBInstanceNetworkType	ModifyDBInstanceNetExpireTime
DescribeAccounts	ResetAccountPassword
DescribeSecurityIps	ModifySecurityIps
DescribeAuditRecords	DescribeAuditFiles
DescribeBackupPolicy	ModifyBackupPolicy
CreateBackup	DescribeBackups
RestoreDBInstance	DescribeDBInstancePerformance
DescribeDBInstances	-

For the `DescribeDBInstances` operation, you must grant the permissions to call the operation on all instances. No authentication is required for the [DescribeRegions](#) operation.

4.4. Authentication rules of API operations

When you call API operations to access ApsaraDB for MongoDB resources as a Resource Access Management (RAM) user, ApsaraDB for MongoDB checks with RAM whether the RAM user is granted the required permissions.

The permissions to be checked are determined by the resources used by the API operation. The following table describes the authentication rules for each API operation.

API operation	Authorization rule
<code>dds:CreateDBInstance</code>	<code>acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid</code>
<code>dds:ModifyDBInstanceSpec</code>	<code>acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid</code>
<code>dds:DeleteDBInstance</code>	<code>acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid</code>
<code>dds:RenewDBInstance</code>	<code>acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid</code>

API operation	Authorization rule
dds>CreateShardingDBInstance	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>DeleteNode	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>CreateNode	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>ModifyNodeSpec	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>DescribeDBInstances	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>RestartDBInstance	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>ModifyDBInstanceMaintainTime	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>ModifyDBInstanceDescription	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>DescribeDBInstanceAttribute	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>DescribeReplicaSetRole	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>DescribeShardingNetworkAddress	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>ModifyDBInstanceNetworkType	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>ModifyDBInstanceNetExpireTime	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>DescribeDBInstancePerformance	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>DescribeAccounts	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>ResetAccountPassword	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>DescribeSecurityIps	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>ModifySecurityIps	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>DescribeAuditRecords	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>DescribeAuditFiles	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>DescribeBackupPolicy	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>ModifyBackupPolicy	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>CreateBackup	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>RestoreDBInstance	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>DescribeBackups	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid
dds>DescribeDBInstancePerformance	acs:dds:\$regionid:\$accountid:dbinstance/\$dbinstanceid

5. List of operations by function

The following tables list API operations available for use in ApsaraDB for MongoDB.

Instance creation or cloning

Operation	Description
CreateDBInstance	Creates or clones an ApsaraDB for MongoDB replica set instance.
CreateShardingDBInstance	Creates or clones an ApsaraDB for MongoDB sharded cluster instance.

Instance configuration change

Operation	Description
ModifyDBInstanceStateSpec	Changes the specifications or storage capacity of an ApsaraDB for MongoDB standalone or replica set instance.
ModifyNodeSpec	Changes the specifications or storage capacity of an ApsaraDB for MongoDB sharded cluster instance.
ModifyNodeSpecBatch	Changes the configurations of one or more mongos or shard nodes of an ApsaraDB for MongoDB sharded cluster instance.
CreateNode	Creates a shard or mongos node for an ApsaraDB for MongoDB sharded cluster instance.
CreateNodeBatch	Batch adds mongos or shard nodes for an ApsaraDB for MongoDB sharded cluster instance.
DeleteNode	Deletes a shard or mongos node for an ApsaraDB for MongoDB sharded cluster instance.

Instance management

Operation	Description
UpgradeDBInstanceStateEngineVersion	Upgrades the database version of an ApsaraDB for MongoDB instance.
UpgradeDBInstanceStateKernelVersion	Upgrades the minor version of an ApsaraDB for MongoDB instance.
ModifyDBInstanceStateMaintainTime	Modifies the maintenance window of an ApsaraDB for MongoDB instance.
ModifyDBInstanceStateDescription	Changes the description of an ApsaraDB for MongoDB instance.
ModifyDBInstanceStateNetExpireTime	Extends the retention period of the classic network of an ApsaraDB for MongoDB instance.
SwitchDBInstanceStateHA	Switches between the primary and secondary nodes in an ApsaraDB for MongoDB instance.

Operation	Description
RestartDBInstance	Restarts an ApsaraDB for MongoDB instance.
DeleteDBInstance	Releases an ApsaraDB for MongoDB instance.
DestroyInstance	Destroys an ApsaraDB for MongoDB instance.

Instance information query

Operation	Description
DescribeReplicaSetRole	Queries the role and connection information of an ApsaraDB for MongoDB instance.
DescribeKernelReleaseNotes	Queries the release notes of the minor versions of an ApsaraDB for MongoDB instance.
DescribeAvailableEngineVersion	Queries the engine versions to which an ApsaraDB for MongoDB instance can be upgraded.
DescribeDBInstances	Queries the list of ApsaraDB for MongoDB instances.
DescribeDBInstanceAttribute	Queries the detailed information of ApsaraDB for MongoDB instances.
DescribeRoleZoneInfo	Views the roles and zones of nodes in an ApsaraDB for MongoDB instance.
DescribeInstanceAutoRenewalAttribute	Queries whether auto-renewal is enabled for an ApsaraDB for MongoDB instance.
DescribeActiveOperationTaskCount	Queries the number of O&M tasks on an ApsaraDB for MongoDB instance.
DescribeActiveOperationTaskType	Queries the types of O&M tasks on an ApsaraDB for MongoDB instance and the number of tasks of each type.

Resource management

Operation	Description
EvaluateResource	Checks whether sufficient resources are available in the region where you want to create or upgrade an ApsaraDB for MongoDB instance.
DescribeAvailableResource	Queries the types of ApsaraDB for MongoDB instances that can be created in a specific zone.
ModifyResourceGroup	Migrates an ApsaraDB for MongoDB instance to a specified resource group.

Region management

Operation	Description
MigrateToOtherZone	Migrates an ApsaraDB for MongoDB instance to another zone.
DescribeRegions	Views the regions and zones that an ApsaraDB for MongoDB instance can be created.
MigrateAvailableZone	Migrates an ApsaraDB for MongoDB instance to a specified destination zone.

Connection management

Operation	Description
AllocatePublicNetworkAddress	Applies for a public endpoint for an ApsaraDB for MongoDB instance.
ReleasePublicNetworkAddress	Releases the public IP address of an ApsaraDB for MongoDB instance.
ModifyInstanceVpcAuthMode	Enables or disables authentication for an ApsaraDB for MongoDB instance to allow access from the same VPC as the instance.
DescribeShardingNetworkAddress	Queries the connection information of sharded cluster instances of ApsaraDB for MongoDB.
ModifyDBInstanceNetworkType	Changes the network type of an ApsaraDB for MongoDB instance.
ModifyDBInstanceConnectionString	Modifies the connection string of an ApsaraDB for MongoDB instance.
ReleaseNodePrivateNetworkAddress	Releases the internal endpoint of a shard or Configserver node of an ApsaraDB for MongoDB sharded cluster instance.
AllocateNodePrivateNetworkAddress	Applies for an internal endpoint for the shard or Configserver node of an ApsaraDB for MongoDB sharded cluster instance.

Tag management

Operation	Description
TagResources	Adds tags to one or more ApsaraDB for MongoDB instances.
ListTagResources	Queries the relationship between ApsaraDB for MongoDB instances and tags.
DescribeTags	Queries all tags in a specified region.
UntagResources	Removes a tag from an instance. If the tag is not added to another instance, the tag is deleted.

Account management

Operation	Description
DescribeAccounts	Queries the database accounts of an ApsaraDB for MongoDB instance.
ResetAccountPassword	Resets the password of the root account of an ApsaraDB for MongoDB instance.
ModifyAccountDescription	Modifies the description of the root account of an ApsaraDB for MongoDB instance.

IP address whitelists and security groups

Operation	Description
DescribeSecurityGroupConfiguration	Queries the ECS security groups associated with an ApsaraDB for MongoDB instance.
ModifySecurityGroupConfiguration	Modifies the ECS security group that is bound to the ApsaraDB for MongoDB instance.
DescribeSecurityIps	Queries the IP address whitelist of an ApsaraDB for MongoDB instance.
ModifySecurityIps	Modifies the IP address whitelist of an ApsaraDB for MongoDB instance.

Keys

Operation	Description
CheckCloudResourceAuthorized	Checks whether KMS keys are authorized to ApsaraDB for MongoDB instances.
DescribeUserEncryptionKeyList	Queries the list of custom keys for an ApsaraDB for MongoDB instance.
DescribeDBInstanceEncryptionKey	Queries the details of a key for an ApsaraDB for MongoDB instance.
DescribeDBInstanceTDEInfo	Queries whether TDE is enabled for an ApsaraDB for MongoDB instance.
ModifyDBInstanceTDE	Modifies the transparent data encryption (TDE) status of an ApsaraDB for MongoDB instance.

SSL encryption

Operation	Description
ModifyDBInstanceSSL	Modifies the SSL settings of an ApsaraDB for MongoDB instance.
DescribeDBInstanceSSL	Queries the SSL settings of an ApsaraDB for MongoDB instance.

Audit logs

Operation	Description
DescribeAuditRecords	Queries the audit log of an ApsaraDB for MongoDB instance.
DescribeAuditPolicy	Queries whether the audit log feature is enabled for an ApsaraDB for MongoDB instance.
ModifyAuditLogFilter	Modifies the type of audit log entries that you want to collect for an ApsaraDB for MongoDB instance.
DescribeAuditLogFilter	Queries the types of entries in the audit log collected for an ApsaraDB for MongoDB instance.
ModifyAuditPolicy	Enables or disables the audit log feature or sets the log retention period for an ApsaraDB for MongoDB instance.
DescribeMongoDBLogConfig	Queries the log feature configurations of an ApsaraDB for MongoDB instance.

Log management

Operation	Description
DescribeSlowLogRecords	Queries entries in the slow query log of an ApsaraDB for MongoDB instance.
DescribeErrorLogRecords	Queries the error log of an ApsaraDB for MongoDB instance.
DescribeRunningLogRecords	Queries the operational log of an ApsaraDB for MongoDB instance.

Performance monitoring management

Operation	Description
DescribeDBInstancePerformance	Queries the performance data of an ApsaraDB for MongoDB instance.
ModifyDBInstanceMonitor	Sets the collection frequency of monitoring data for an ApsaraDB for MongoDB instance.
DescribeDBInstanceMonitor	Queries the collection frequency of monitoring data for an ApsaraDB for MongoDB instance.

Parameter management

Operation	Description
DescribeParameterModificationHistory	Queries the modification records of ApsaraDB for MongoDB instance parameters.
DescribeParameters	Queries parameter configurations of an ApsaraDB for MongoDB instance.

Operation	Description
DescribeParameterTemplates	Queries the list of default parameter templates for ApsaraDB for MongoDB instances.
ModifyParameters	Modifies the parameters of an ApsaraDB for MongoDB instance.

Backup and restoration

Operation	Description
DescribeBackupPolicy	Queries the backup policy of an ApsaraDB for MongoDB instance.
ModifyBackupPolicy	Modifies the backup policy of a MongoDB instance.
CreateBackup	Manually backs up MongoDB instances.
DescribeBackups	Queries the backup sets of an ApsaraDB for MongoDB instance.
RestoreDBInstance	Restores data to the current ApsaraDB for MongoDB instance.
DescribeBackupDBs	Queries the databases at a specified time or the databases in a specified backup set before you restore a database for an ApsaraDB for MongoDB instance.
CheckRecoveryCondition	Checks whether an ApsaraDB for MongoDB instance meets the data restoration conditions.

Renewal management

Operation	Description
DescribePrice	Queries the fees incurred by creating, upgrading, or renewing ApsaraDB for MongoDB instances.
ModifyInstanceAutoRenewalAttribute	Enables or disables auto-renewal for an ApsaraDB for MongoDB instance.
TransformToPrePaid	Modifies the billing method of an ApsaraDB for MongoDB instance from pay-as-you-go to subscription.
RenewDBInstance	Manually renews a subscription instance.
DescribeRenewalPrice	Queries the monthly renewal price of an ApsaraDB for MongoDB instance.

Appendixes

- [Error codes](#)
- [instance types](#)
- [Instance states](#)
- [Performance metrics](#)

- Details of the DBInstances parameter in the DescribePrice operation

6. Create or clone an instance

6.1. CreateDBInstance

Creates or clones an ApsaraDB for MongoDB replica set instance.

Before you call this operation, make sure that you fully understand the billing methods and [pricing](#).

For more information about the instance types of ApsaraDB for MongoDB instances, see [Instance types](#).

To create sharded cluster instances, you can call the [CreateShardingDBInstance](#) operation.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateDBInstance	The operation that you want to perform. Set the value to CreateDBInstance .
RegionId	String	Yes	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.
ClientToken	String	No	ETnLKLbzczshOTUbOCz****	The client token that is used to ensure the idempotence of the request. You can use the client to generate the value, but you must make sure that it is unique among different requests. The token can contain only ASCII characters and cannot exceed 64 characters in length.
ZoneId	String	No	cn-hangzhou-b	The zone ID of the instance. You can call the DescribeRegions operation to query the most recent zone list.
Engine	String	Yes	MongoDB	The database engine of the instance. Set the value to MongoDB .

Parameter	Type	Required	Example	Description
EngineVersion	String	Yes	4.2	<p>The database engine version of the instance. Valid values:</p> <ul style="list-style-type: none"> • 5.0 • 4.4 • 4.2 • 4.0 • 3.4 <div style="background-color: #e1f5fe; padding: 10px; margin-top: 10px;"> ? Note To call this operation to clone an instance, set this value to the database version of the source instance. </div>
DBInstanceClass	String	Yes	dds.mongo.standard	<p>The instance type. For more information about valid values, see Instance types. You can also call the DescribeAvailableResource operation to view instance types.</p>
DBInstanceStorage	Integer	Yes	10	<p>The storage capacity of the instance.</p> <div style="background-color: #e1f5fe; padding: 10px; margin-top: 10px;"> ? Note The values that can be specified for this parameter are subject to the instance types. For more information, see Instance types. </div>
DBInstanceDescription	String	No	Testdatabase1	<p>The name of the instance. The rules for the name:</p> <ul style="list-style-type: none"> • The name must start with a letter. • The name can contain digits, letters, underscores (_), and hyphens (-). • The name must be 2 to 256 characters in length.

Parameter	Type	Required	Example	Description
SecurityIPList	String	No	10.23.XX.XX	<p>The whitelist that contains the IP addresses that are allowed to access the instance. Separate multiple IP addresses with commas (,). Each IP address must be unique. A maximum of 1,000 IP addresses can be added.</p> <p>Note</p> <ul style="list-style-type: none">• You can enter IP addresses such as 10.23.12.24 and Classless Inter-Domain Routing (CIDR) blocks such as 10.23.12.24/24. /24 indicates the length of the CIDR block prefix. The prefix can be 1 to 32 bits in length. You can also enter the percent sign (%) or 0.0.0.0/0.• If you enter the percent sign (%) or 0.0.0.0/0, all IP addresses can access the instance. This may introduce security risks to the instance.
AccountPassword	String	No	Alitest!159	<p>The password of the root account. The password must meet the following requirements:</p> <ul style="list-style-type: none">• The password must contain at least three of the following character types: uppercase letters, lowercase letters, digits, and special characters. Special characters include ! # \$ % ^ & * () _ + - = .• The password must be 8 to 32 characters in length.

Parameter	Type	Required	Example	Description
ChargeType	String	No	PrePaid	<p>The billing method of the instance. Valid values:</p> <ul style="list-style-type: none"> • PostPaid: pay-as-you-go • PrePaid: subscription <p>Default value: PostPaid.</p> <div style="background-color: #e1f5fe; padding: 5px;"> ? Note If you specify this parameter to PrePaid, you must also specify the Period parameter. </div>
Period	Integer	No	1	<p>The subscription period of the instance. Unit: months. Valid values: 1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 24, and 36.</p> <div style="background-color: #e1f5fe; padding: 5px;"> ? Note This parameter is valid and required only if you set the ChargeType parameter to PrePaid. </div>
NetworkType	String	No	VPC	<p>The network type of the new instance. Valid values:</p> <ul style="list-style-type: none"> • Classic • VPC <p>Default value: Classic.</p> <div style="background-color: #e1f5fe; padding: 5px;"> ? Note If you set this parameter to VPC, you must also specify the VpcId and VSwitchId parameters. </div>
VpcId	String	Yes	vpc-bp175iuvg8nxqraf2***	<p>The ID of the virtual private cloud (VPC).</p> <div style="background-color: #e1f5fe; padding: 5px;"> ? Note This parameter is required when the NetworkType parameter is set to VPC. </div>

Parameter	Type	Required	Example	Description
VSwitchId	String	Yes	vsw-bp1gzt31twhloosa5****	<p>The ID of the vSwitch.</p> <p>Note This parameter is required when the NetworkType parameter is set to VPC.</p>
SrcDBInstanceld	String	No	dds-bp1ee12ad351****	<p>The ID of the source instance.</p> <p>Note This parameter can only be specified when this operation is called to clone instances. You must also specify the BackupId parameter or RestoreTime parameter.</p>
BackupId	String	No	32994****	<p>The ID of the backup set.</p> <p>Note</p> <ul style="list-style-type: none">This parameter is required only when you call this operation to clone an instance. If you specify this parameter, you must also specify the SrcDBInstanceld parameter.You can call the DescribeBackups operation to query the backup ID.

Parameter	Type	Required	Example	Description
RestoreTime	String	No	2019-03-13T12:11:14Z	<p>The point in time to clone the instance. Specify the time in the <code>yyyy-MM-ddTHH:mm:ssZ</code> format. The time must be in UTC.</p> <div style="background-color: #e1f5fe; padding: 10px;"> <p>? Note</p> <ul style="list-style-type: none"> This parameter is required only when you call this operation to clone an instance. If you specify this parameter, you must also specify the <code>SrcDBInstanceId</code> parameter and <code>BackupId</code> parameter. You can set this parameter to a point in time in the last seven days. </div>
BusinessInfo	String	No	{ "ActivityId": "00000000"}	The business information. This is an additional parameter.
AutoRenew	String	No	true	<p>Specifies whether to enable auto-renewal for the instance. Valid values:</p> <ul style="list-style-type: none"> <code>true</code>: enables auto-renewal. <code>false</code>: disables auto-renewal. You must manually renew the instance. <p>Default value: <code>false</code>.</p> <div style="background-color: #e1f5fe; padding: 10px;"> <p>? Note This parameter takes effect only when you set the <code>ChargeType</code> parameter to <code>PrePaid</code>.</p> </div>
DatabaseNames	String	No	mongodbtest	<p>The name of the database.</p> <div style="background-color: #e1f5fe; padding: 10px;"> <p>? Note When you call this operation to clone an instance, you can set the databases that are specified by this parameter for cloning. Otherwise, all databases of the instance are cloned.</p> </div>

Parameter	Type	Required	Example	Description
CouponNo	String	No	youhuiquan_promotion_option_id_for_blank	The coupon code. Default value: <code>youhuiquan_promotion_option_id_for_blank</code> .
StorageEngine	String	No	WiredTiger	<p>The storage engine of the instance. Valid values:</p> <ul style="list-style-type: none">• WiredTiger• RocksDB• TerarkDB <p>Default value: WiredTiger.</p> <ul style="list-style-type: none">• If you call this operation to clone an instance, set the value to the database engine of the source instance.• For more information about the limits on database versions and storage engines, see MongoDB versions and storage engines.
ReplicationFactor	String	No	3	The number of nodes in the replica set. Valid values: 3, 5, or 7. Default value: 3.
ReadonlyReplicas	String	No	1	The number of read-only nodes. Valid values: 1 to 5. <div style="background-color: #e1f5fe; padding: 5px; border-radius: 5px;">? Note By default, no read-only nodes are created.</div>
ResourceGroupId	String	No	rg-acfmyiu4ekp****	The ID of the resource group.

Parameter	Type	Required	Example	Description
ClusterId	String	No	dhg-2x7*****	<p>The ID of the ApsaraDB MyBase for MongoDB cluster. To create a ApsaraDB MyBase for MongoDB instance, you must perform the following steps:</p> <ol style="list-style-type: none"> 1. Log on to the ApsaraDB MyBase console. 2. Create an ApsaraDB MyBase for MongoDB cluster. 3. Add three or more hosts to the cluster. <div style="background-color: #e1f5fe; padding: 10px;"> <p>? Note</p> <ul style="list-style-type: none"> • For more information about how to create an ApsaraDB MyBase for MongoDB instance, see Create a dedicated cluster. • This parameter is only available on the China site (aliyun.com). </div>

Response parameters

Parameter	Type	Example	Description
RequestId	String	D8F1D721-6439-4257-A89C-F1E8E9C9***	The ID of the request.
DBInstanceId	String	dds-bp144a7f2db8***	The ID of the instance.
OrderId	String	21077576248***	The ID of the order.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=CreateDBInstance
&ClientToken=ETnLKlblczshOTUbOCz****
&Engine=MongoDB
&EngineVersion=4.2
&DBInstanceClass=dds.mongo.standard
&DBInstanceStorage=10
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<CreateDBInstanceResponse>
  <DBInstanceId>dds-bp144a7f2db8****</DBInstanceId>
  <OrderId>21077576248****</OrderId>
  <RequestId>D8F1D721-6439-4257-A89C-F1E8E9C9****</RequestId>
</CreateDBInstanceResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "DBInstanceId" : "dds-bp144a7f2db8****",
  "OrderId" : "21077576248****",
  "RequestId" : "D8F1D721-6439-4257-A89C-F1E8E9C9****"
}
```

Error codes

HttpCode	Error code	Error message	Description
400	InsufficientBalance	Your account does not have enough balance.	The error message returned because your account balance is insufficient. Add funds to your account and try again.
400	InvalidCapacity.NotFound	The Capacity provided does not exist in our records.	The error message returned because the configured capacity is invalid. Check the specified parameter.
400	IdempotentParameterMismatch	Request uses a client token in a previous request but is not identical to that request.	The error message returned because the two specified requests use the same ClientToken.
403	RealNameAuthenticationError	Your account has not passed the real-name authentication yet.	The error message returned because the specified user has not completed real-name verification. Complete real-name verification and try again.
403	IncorrectBackupSetState	Current backup set state does not support operations.	The error message returned because the backup set is in a state that does not support the current operation.

For a list of error codes, visit the [API Error Center](#).

6.2. CreateShardingDBInstance

Creates or clones an ApsaraDB for MongoDB sharded cluster instance.

- Before you call this operation, make sure that you fully understand the billing methods and [pricing](#).
- For more information about the instance types of ApsaraDB for MongoDB instances, see [Instance types](#).
- To create standalone and replica set instances, you can call the [CreateDBInstance](#) operation.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the most recent region list.
Action	String	Yes	CreateShardingDBInstance	The operation that you want to perform. Set the value to CreateShardingDBInstance .
ZoneId	String	No	cn-hangzhou-b	The zone ID of the instance. You can call the DescribeRegions operation to query the most recent zone list.
Engine	String	Yes	MongoDB	The database engine of the instance. Set the value to MongoDB .

Parameter	Type	Required	Example	Description
EngineVersion	String	Yes	4.0	<p>The version of the database engine. Valid values:</p> <ul style="list-style-type: none">• 3.4• 4.0• 4.2 <div style="background-color: #e1f5fe; padding: 10px; border-radius: 5px;"><p>? Note</p><ul style="list-style-type: none">• For more information about the limits on database versions and storage engines, see MongoDB versions and storage engines.• If you call this operation to clone an instance, set the value to the database engine of the source instance.</div>
DBInstanceDescription	String	No	Sharded cluster_dtstest1	<p>The name of the instance. The name must meet the following requirements:</p> <ul style="list-style-type: none">• The name must start with a letter.• The name can contain digits, letters, underscores (_), and hyphens (-).• The name must be 2 to 256 characters in length.

Parameter	Type	Required	Example	Description
SecurityIPList	String	No	10.23.12.24/24	<ul style="list-style-type: none"> The whitelist that contains the IP addresses that are allowed to access the instance. Separate multiple IP addresses with commas (,). Each IP address must be unique. A maximum of 1,000 IP addresses can be added. You can enter IP addresses such as 10.23.12.24 and Classless Inter-Domain Routing (CIDR) blocks such as 10.23.12.24/24. /24 indicates the length of the CIDR block prefix. The prefix can be 1 to 32 bits in length. You can also enter the percent sign (%) or 0.0.0.0/0. <div style="background-color: #e1f5fe; padding: 10px; margin-top: 10px;"> ? Note If you enter the percent sign (%) or 0.0.0.0/0, all IP addresses can access the instance. This may introduce security risks to the instance. </div>
AccountPassword	String	No	Alitest!159	<p>The password of the root account. The password must meet the following requirements:</p> <ul style="list-style-type: none"> The password must contain at least three of the following character types: uppercase letters, lowercase letters, digits, and special characters. Special characters include ! # \$ % ^ & * () _ + - = The password must be 8 to 32 characters in length.
ChargeType	String	No	PrePaid	<p>The billing method of the instance. Valid values:</p> <ul style="list-style-type: none"> PostPaid: pay-as-you-go PrePaid: subscription <p>Default value: PostPaid.</p> <div style="background-color: #e1f5fe; padding: 10px; margin-top: 10px;"> ? Note If you set this parameter to PrePaid, you must also specify the Period parameter. </div>

Parameter	Type	Required	Example	Description
Period	Integer	No	1	<p>The subscription period of the instance. Unit: months. Valid values: 1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 24, and 36.</p> <p>Note This parameter is valid and required only when ChargeType is set to PrePaid.</p>
NetworkType	String	No	VPC	<p>The network type of the instance.</p> <ul style="list-style-type: none"> Classic VPC <p>Default value: Classic.</p> <p>Note If you set this parameter to VPC, you must also specify the VpcId and vSwitchId parameters.</p>
VpcId	String	Yes	vpc-bp1n3i15v90el48nx***	<p>The ID of the virtual private cloud (VPC).</p> <p>Note This parameter is valid only when NetworkType is set to VPC.</p>
vSwitchId	String	Yes	vsw-bp1vj604nj5a9zz74***	<p>The ID of the vSwitch.</p> <p>Note This parameter is valid only when NetworkType is set to VPC.</p>
SrcDBInstanceld	String	No	dds-bp11483712c1****	<p>The ID of the source instance. This parameter is required only when you call this operation to clone an instance. If you specify this parameter, you must also specify the RestoreTime parameter.</p>

Parameter	Type	Required	Example	Description
RestoreTime	String	No	2019-03-08T02:30:25Z	<p>The point in time to clone the instance. Specify the time in the <i>yyyy-MM-ddTHH:mm:ssZ</i> format. The time must be in UTC.</p> <p>This parameter is required only when you call this operation to clone an instance. If you specify this parameter, you must also specify the SrcDBInstanceId parameter.</p> <div style="background-color: #e1f5fe; padding: 10px; border-radius: 5px;"> ? Note You can set this parameter to a point in time in the last seven days. </div>
ClientToken	String	No	ETnLkblzczshOTUbOCz***	<p>The client token that is used to ensure the idempotence of the request. You can use the client to generate the value, but you must make sure that it is unique among different requests. The token can only contain ASCII characters and cannot exceed 64 characters in length.</p>
StorageEngine	String	No	WiredTiger	<p>The storage engine of the instance. Valid values: WiredTiger, RocksDB, and TerarkDB. Default value: WiredTiger.</p> <div style="background-color: #e1f5fe; padding: 10px; border-radius: 5px;"> ? Note <ul style="list-style-type: none"> • For more information about the limits on database versions and storage engines, see MongoDB versions and storage engines. • If you call this operation to clone an instance, set the value to the database engine of the source instance. </div>

Parameter	Type	Required	Example	Description
AutoRenew	String	No	true	<p>Specifies whether to enable auto-renewal for the instance. Valid values:</p> <ul style="list-style-type: none"> • true: enables auto-renewal. • false: disables auto-renewal. You must manually renew the instance. <p>Default value: false.</p> <div style="background-color: #e1f5fe; padding: 5px;"> ? Note This parameter is valid only when ChargeType is set to PrePaid. </div>
ProtocolType	String	No	mongodb	<p>The access protocol type of the instance. Valid values:</p> <ul style="list-style-type: none"> • mongodb: the MongoDB protocol • dynamodb: the DynamoDB protocol
ResourceGroupId	String	No	rg-acfmyiu4ekp****	<p>The ID of the resource group. For more information, see View basic information of a resource group.</p>
Mongos.N.Class	String	No	dds.mongos.standard	<p>The instance type of the mongos node. For more information, see Instance types. Valid values of N: 2 to 32.</p> <div style="background-color: #e1f5fe; padding: 5px;"> ? Note N specifies the serial number of the mongos node for which the instance type is specified. For example, Mongos.2.Class specifies the instance type of the second mongos node. </div>
ReplicaSet.N.Classes	String	No	dds.shard.standard	<p>The instance type of the shard node. For more information, see Instance types. Valid values of N: 2 to 32.</p> <p>N specifies the serial number of the shard node for which the instance type is specified. For example, ReplicaSet.2.Class specifies the instance type of the second shard node.</p>

Parameter	Type	Required	Example	Description
ReplicaSet.N.Storage	Integer	No	20	<p>The storage capacity of the shard node. The values that can be specified for this parameter are subject to the instance types. For more information, see Instance types.</p> <ul style="list-style-type: none"> Valid values: 10 to 2000. Unit: GB. The value must be a multiple of 10. <p>N specifies the serial number of the shard node for which the storage capacity is specified. For example, ReplicaSet.2.Storage specifies the storage capacity of the second shard node.</p>
ReplicaSet.N.ReadonlyReplicas	Integer	No	5	<p>The number of read-only nodes in shard node N. Valid values: 0 to 5. Default value: 0.</p> <p>N specifies the serial number of the shard node for which you want to set the number of read-only nodes. ReplicaSet.2 ReadonlyReplicas specifies the number of read-only nodes in the second shard node.</p>
ConfigServer.N.Class	String	No	dds.cs.mid	<p>The instance type of the Configserver node. Set the value to dds.cs.mid.</p> <div style="background-color: #e0f2ff; padding: 10px;"> <p>? Note The specifications of a Configserver node is 1 vCPU and 2 GiB memory. The number of Configserver nodes is 1. Set the ConfigServer.1.Class parameter to dds.cs.mid.</p> </div>
ConfigServer.N.Storage	Integer	No	20	<p>The storage capacity of the Configserver node. Set the value to 20.</p> <div style="background-color: #e0f2ff; padding: 10px;"> <p>? Note The storage capacity is 20 GB and cannot be changed. The number of Configserver nodes is 1. Set the ConfigServer.1.Storage parameter to 20.</p> </div>

Response parameters

Parameter	Type	Example	Description
RequestId	String	D8F1D721-6439-4257-A89C-F1E8E9C9****	The ID of the request.
DBInstanceld	String	dds-bp114f14849d****	The ID of the instance.
OrderId	String	21010996721****	The ID of the order.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=CreateShardingDBInstance
&Engine=MongoDB
&EngineVersion=4.0
&AccountPassword=Alitest!159
&ZoneId=cn-hangzhou-b
&ClientToken=ETnLKlblczshOTUbOCz****
&VpcId=vpc-bp1n3i15v90el48nx****
&VSwitchId=vsw-bp1vj604nj5a9zz74****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<CreateShardingDBInstanceResponse>
    <DBInstanceId>dds-bp114f14849d****</DBInstanceId>
    <OrderId>21010996721****</OrderId>
    <RequestId>D8F1D721-6439-4257-A89C-F1E8E9C9****</RequestId>
</CreateShardingDBInstanceResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
    "DBInstanceId" : "dds-bp114f14849d****",
    "OrderId" : "21010996721****",
    "RequestId" : "D8F1D721-6439-4257-A89C-F1E8E9C9****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

7.Change the configurations of an instance

7.1. ModifyDBInstanceStateSpec

Modifies the specifications or storage space of an ApsaraDB for MongoDB standalone instance, replica set instance, or serverless instance which is only available on China site ([aliyun.com](#)).

Before you call this operation, make sure that you understand the billing methods and [pricing](#).

This operation applies only to standalone and replica set instances. To modify the specifications of sharded cluster instances, you can call the [ModifyNodeSpec](#), [CreateNode](#), [DeleteNode](#), or [ModifyNodeSpecBatch](#) operation.

Debugging

[OpenAPI Explorer](#) automatically calculates the signature value. For your convenience, we recommend that you call this operation in [OpenAPI Explorer](#). OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyDBInstanceStateSpec	The operation that you want to perform. Set the value to ModifyDBInstanceStateSpec .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeDBInstanceStateSpec operation to query the region ID of the instance.
DBInstanceId	String	Yes	dds-bp1ea17b41ab*** *	The ID of the instance.
DBInstanceClass	String	No	dds.sn4.xlarge.1	The instance type. For more information, see Instance types . You can also call the DescribeAvailableResource operation to view instance types. <div style="background-color: #e1f5fe; padding: 10px; border-radius: 5px;">? Note You must specify at least one of the DBInstanceClass and DBInstanceStorage parameters.</div>

Parameter	Type	Required	Example	Description
DBInstanceStorage	String	No	50	<p>The storage capacity of the instance. Valid values: 10 to 3000. The value must be a multiple of 10. Unit: GB. The values that can be specified for this parameter are subject to the instance types. For more information, see Instance types.</p> <div style="background-color: #e1f5fe; padding: 10px; border-radius: 5px;"><p>? Note</p><ul style="list-style-type: none">• You must specify at least one of the DBInstanceStorage and DBInstanceClass parameters.• Storage capacity can be scaled down only on subscription replica set instances. The new storage capacity you specify must be greater than the used storage space.</div>
OrderType	String	No	UPGRADE	<p>The type of configuration changes. Valid values:</p> <ul style="list-style-type: none">• UPGRADE• DOWNGRADE <p>Default value: DOWNGRADE.</p> <div style="background-color: #e1f5fe; padding: 10px; border-radius: 5px;"><p>? Note This parameter can be configured only when the billing method of the instance is subscription.</p></div>

Parameter	Type	Required	Example	Description
AutoPay	Boolean	No	true	<p>Specifies whether to enable automatic payment for the instance. Valid values:</p> <ul style="list-style-type: none"> • true: enables automatic payment. Make sure that you have sufficient balance within your account. • false: disables automatic payment. You can perform the following operations to pay for the instance: Log on to the ApsaraDB for MongoDB console. In the upper-right corner of the page, click Expenses to go to the Billing Management console. In the left-side navigation pane, click Orders. On the Orders page, find the order and complete the payment. <p>Default value: true.</p>
BusinessInfo	String	No	{ "ActivityId":"00000000"}	The business information.
ReplicationFactor	String	No	3	<p>The number of nodes in the instance.</p> <ul style="list-style-type: none"> • Valid values for replica set instances: 3, 5, and 7 • Valid values for standalone instances: 1 <div style="background-color: #e1f5fe; padding: 10px;"> ? Note This parameter is not required for a serverless instance which is only available on China site (aliyun.com).</div>
ReadonlyReplicas	String	No	1	The number of read-only nodes. Valid values: 1 to 5.
CouponNo	String	No	youhuiquan_promotion_option_id_for_blank	The coupon code. Default value: <code>youhuiquan_promotion_option_id_for_blank</code> .

Parameter	Type	Required	Example	Description
EffectiveTime	String	No	Immediately	<p>The time when the changed configurations take effect. Valid values:</p> <ul style="list-style-type: none">• Immediately: The configurations immediately take effect.• MaintainTime: The configurations take effect during the maintenance window of the instance. <p>Default value: Immediately.</p>

Response parameters

Parameter	Type	Example	Description
RequestId	String	1E9F1104-19E7-59F0-AB7F-F4EBFDEA****	The ID of the request.
OrderId	String	21012408824****	The ID of the order.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=ModifyDBInstanceSpec  
&DBInstanceId=dds-bp1ea17b41ab****  
&DBInstanceStorage=50  
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK  
Content-Type:application/xml  
<ModifyDBInstanceSpecResponse>  
    <RequestId>1E9F1104-19E7-59F0-AB7F-F4EBFDEA****</RequestId>  
    <OrderId>21012408824****</OrderId>  
</ModifyDBInstanceSpecResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
    "RequestId" : "1E9F1104-19E7-59F0-AB7F-F4EBFDEA****",
    "OrderId" : "21012408824****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

7.2. ModifyNodeSpec

Modifies the specifications or storage space of a node in an ApsaraDB for MongoDB sharded cluster instance.

Before you call this operation, make sure that you fully understand the billing methods and [pricing](#) of ApsaraDB for MongoDB.

 Note This operation applies only to sharded cluster instances.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyNodeSpec	The operation that you want to perform. Set the value to ModifyNodeSpec .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the most recent region list.
DBInstanceId	String	Yes	dds-bp1c0b990184***	The ID of the instance.

Parameter	Type	Required	Example	Description
Nodeld	String	Yes	s-bp143e1b1637***	<p>The ID of the shard or mongos node in the sharded cluster instance. You can call the DescribeDBInstanceAttribute operation to query the ID.</p> <div style="background-color: #e1f5fe; padding: 10px; border-radius: 5px;"> ? Note If you set this parameter to the ID of the shard node, you must also specify the NodeStorage parameter. </div>
NodeClass	String	No	dds.mongodb.standard	<p>The instance type of the shard or mongos node. For more information, see Instance types.</p> <div style="background-color: #e1f5fe; padding: 10px; border-radius: 5px;"> ? Note You must specify one of the NodeClass and NodeStorage parameters. </div>
NodeStorage	Integer	No	20	<p>The storage space of the shard node.</p> <ul style="list-style-type: none"> Valid values: 10 to 2000. Unit: GB. The value must be a multiple of 10. <div style="background-color: #e1f5fe; padding: 10px; border-radius: 5px;"> ? Note <ul style="list-style-type: none"> You must specify one of the NodeClass and NodeStorage parameters. This parameter takes effect only when the Nodeld parameter is set to the ID of the shard node. </div>
ClientToken	String	No	ETnLlblczshOTUbOCxxxxxxxxxx	<p>The client token that is used to ensure the idempotence of the request. You can use the client to generate the value, but you must make sure that it is unique among different requests. The token can contain only ASCII characters and cannot exceed 64 characters in length.</p>

Parameter	Type	Required	Example	Description
FromApp	String	No	OpenApi	<p>The source of the request. Valid values:</p> <ul style="list-style-type: none"> • OpenApi: the ApsaraDB for MongoDB API • mongo_buy: the ApsaraDB for MongoDB console
AutoPay	Boolean	No	true	<p>Specifies whether to enable automatic payment for the instance. Valid values:</p> <ul style="list-style-type: none"> • true: enables automatic payment. Make sure that you have sufficient balance within your account. • false: disables automatic payment. You can perform the following operations to pay for the instance: Log on to the ApsaraDB for MongoDB console. In the upper-right corner of the page, click Expenses to go to the Billing Management console. In the left-side navigation pane, click Orders. On the Orders page, find the order and complete the payment. <p>Default value: true.</p>
EffectiveTime	String	No	Immediately	<p>The time at which the new configurations take effect. Valid values:</p> <ul style="list-style-type: none"> • Immediately: The new configurations immediately take effect. • MaintainTime: The new configurations take effect during the maintenance window of the instance. <p>Default value: Immediately.</p>
OrderType	String	No	UPGRADE	The type of the order. Valid values: <ul style="list-style-type: none"> • UPGRADE • DOWNGRADE
ReadonlyReplicas	Integer	No	5	The number of read-only nodes in the shard node. Valid values: 0 to 5. Default value: 0.

Parameter	Type	Required	Example	Description
BusinessInfo	String	No	{ "ActivityId": "00000000"}	The business information. This is an additional parameter.
CouponNo	String	No	1111111111111111 11	The coupon code. Default value: youhuiquan_promotion_option_id_for_blank .

Response parameters

Parameter	Type	Example	Description
RequestId	String	32D597D6-D369-5C47-8E45-F45502E4****	The ID of the request.
OrderId	String	21084641369****	The ID of the order.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=ModifyNodeSpec  
&NodeId=s-bp143e1b1637****  
&DBInstanceId=dds-bp1c0b990184****  
&NodeClass=dds.shard.standard  
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK  
Content-Type:application/xml  
<ModifyNodeSpecResponse>  
    <RequestId>32D597D6-D369-5C47-8E45-F45502E4****</RequestId>  
    <OrderId>21084641369****</OrderId>  
</ModifyNodeSpecResponse>
```

JSON format

```
HTTP/1.1 200 OK  
Content-Type:application/json  
{  
    "RequestId" : "32D597D6-D369-5C47-8E45-F45502E4****",  
    "OrderId" : "21084641369****"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

7.3. ModifyNodeSpecBatch

Changes the configurations of one or more mongos nodes or shard nodes of an ApsaraDB for MongoDB sharded cluster instance.

Before you call this operation, make sure that you understand the billing methods and pricing of ApsaraDB for MongoDB. For more information, go to the Pricing tab of the ApsaraDB for MongoDB product page at [the international site \(alibabacloud.com\)](#).

This operation is applicable only to sharded cluster instances.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer automatically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyNodeSpecBatch	The operation that you want to perform. Set the value to ModifyNodeSpecBatch .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.
DBInstanceId	String	Yes	dds-bp1337621e8f***	The ID of the instance whose configurations you want to change.
NodesInfo	String	Yes	null	The configuration information of the mongos nodes or shard nodes whose configurations you want to change. For more information, see Instance types .
ClientToken	String	No	ETnLKlblczshOTUbOCz***	The client token that is used to ensure the idempotence of the request. You can use the client to generate the value, but you must make sure that it is unique among different requests. The token can contain only ASCII characters and cannot exceed 64 characters in length.

Parameter	Type	Required	Example	Description
AutoPay	Boolean	No	true	<p>Specifies whether to enable automatic payment for the instance. Valid values:</p> <ul style="list-style-type: none"> • true: enables automatic payment. Make sure that your account balance is sufficient. • false: disables automatic payment. You can perform the following operations to pay for the instance: Log on to the ApsaraDB for MongoDB console. In the upper-right corner of the page, click Expenses to go to the Billing Management console. In the left-side navigation pane, click Orders. On the Orders page, find the order and complete the payment. <p>Default value: true.</p>
EffectiveTime	String	No	Immediately	<p>The time when the changed configurations take effect. Valid values:</p> <ul style="list-style-type: none"> • Immediately: The configurations immediately take effect. • MaintainTime: The configurations take effect during the maintenance window of the instance. <div style="background-color: #e1f5fe; padding: 10px;"> <p>? Note</p> <ul style="list-style-type: none"> ○ You can call the ModifyDBInstanceMaintenanceTime operation to modify the maintenance window of an instance. ○ You can call the DescribeDBInstanceAttribute operation to view the maintenance window of an instance. <p>Default value: Immediately.</p> </div>

Parameter	Type	Required	Example	Description
OrderType	String	No	UPGRADE	<p>The type of configuration changes. Valid values:</p> <ul style="list-style-type: none"> • UPGRADE • DOWNGRADE <div style="background-color: #e0f2ff; padding: 10px;"> ? Note This parameter can be configured only when the billing method of the instance is subscription. </div>
CouponNo	String	No	youhuiquan_promotion_option_id_for_blank	The coupon code. Default value: youhuiquan_promotion_option_id_for_blank .
BusinessInfo	String	No	{ "ActivityId":"00000000"}	The business information.

Response parameters

Parameter	Type	Example	Description
OrderId	String	21012719476****	The ID of the order.
RequestId	String	0637BC25-6895-5500-871F-1127CA34****	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=ModifyNodeSpecBatch
&DBInstanceId=dds-bp1337621e8f****
&NodesInfo={"Shards":[{"DBInstanceClass":"dds.shard.mid","DBInstanceName":"d-bp14ae4572fd****","Storage":20},{"DBInstanceClass":"dds.shard.mid","DBInstanceName":"d-bp19f4f92dc5****","Storage":30}]}
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ModifyNodeSpecBatchResponse>
  <RequestId>0637BC25-6895-5500-871F-1127CA34****</RequestId>
  <OrderId>21012719476****</OrderId>
</ModifyNodeSpecBatchResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "0637BC25-6895-5500-871F-1127CA34****",
  "OrderId" : "21012719476****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

7.4. CreateNode

Creates a shard or mongos node for an ApsaraDB for MongoDB sharded cluster instance.

Before you call this operation, make sure that you understand the billing methods and pricing of ApsaraDB for MongoDB. For more information, go to the Pricing tab of the ApsaraDB for MongoDB product page at [the international site \(alibabacloud.com\)](#).

This operation applies only to sharded cluster instances.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer automatically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateNode	The operation that you want to perform. Set the value to CreateNode .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.
DBInstanceId	String	Yes	dds-bp11501cd7b5***	The ID of the sharded cluster instance.

Parameter	Type	Required	Example	Description
NodeClass	String	Yes	dds.shard.mid	The instance type of the shard or mongos node. For more information, see Instance types .
NodeStorage	Integer	No	10	<p>The disk space of the node. Valid values: 10 to 2000. Unit: GB. The value must be a multiple of 10.</p> <div style="background-color: #e1f5fe; padding: 10px; border-radius: 5px;"><p>? Note When the NodeType parameter is set to Shard, you must specify the NodeStorage parameter.</p></div>
NodeType	String	Yes	shard	<p>The type of the node. Valid values:</p> <ul style="list-style-type: none">• shard• mongos
ClientToken	String	No	ETnLKlblczshOTUbOCz***	The client token that is used to ensure the idempotence of the request. You can use the client to generate the value, but you must make sure that it is unique among different requests. The token can contain only ASCII characters and cannot exceed 64 characters in length.

Parameter	Type	Required	Example	Description
AutoPay	Boolean	No	true	<p>Specifies whether to enable automatic payment. Valid values:</p> <ul style="list-style-type: none"> • true: enables automatic payment. Make sure that you have sufficient balance within your account. • false: disables automatic payment. You can perform the following operations to pay for the instance: In the upper-right corner of the page, click Expenses to go to the Billing Management console. In the left-side navigation pane, click Orders. On the Orders page, find the order and complete the payment. <p>Default value: true.</p> <div style="background-color: #e1f5fe; padding: 10px; border-radius: 5px;"> ? Note If the billing method is subscription, you must specify this parameter. </div>
ReadonlyReplicas	Integer	No	5	<p>The number of read-only nodes in the shard node. Valid values: 0 to 5. Default value: 0.</p> <div style="background-color: #e1f5fe; padding: 10px; border-radius: 5px;"> ? Note This parameter is available only for ApsaraDB for MongoDB instances that are purchased on the China site (aliyun.com).</div>
BusinessInfo	String	No	{ "ActivityId": "00000000"}	The business information. This is an additional parameter.
CouponNo	String	No	youhuiquan_promotion_option_id_for_blank	The coupon code. Default value: youhuiquan_promotion_option_id_for_blank .

Response parameters

Parameter	Type	Example	Description
RequestId	String	7D48FB19-20CA-4725-A870-3D8F5CE6****	The ID of the request.

Parameter	Type	Example	Description
NodeId	String	d-bp1b234bf7a4****	The ID of the node.
OrderId	String	20951063702****	The ID of the order.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=CreateNode
&DBInstanceId=dds-bp11501cd7b5****
&NodeClass=dds.shard.mid
&NodeStorage=10
&NodeType=shard
&ClientToken=ETnLKlblzczshOTUbOCz****
&FromApp=mongo_buy
&AutoPay=true
&ReadonlyReplicas=5
&BusinessInfo={"ActivityId":"000000000"}
&CouponNo=youhuiquan_promotion_option_id_for_blank
&<Common request parameters>
```

Sample responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<CreateNodeResponse>
  <RequestId>7D48FB19-20CA-4725-A870-3D8F5CE6****</RequestId>
  <NodeId>d-bp1b234bf7a4****</NodeId>
  <OrderId>20951063702****</OrderId>
</CreateNodeResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "7D48FB19-20CA-4725-A870-3D8F5CE6****",
  "NodeId" : "d-bp1b234bf7a4****",
  "OrderId" : "20951063702****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

7.5. CreateNodeBatch

Batch adds mongos or shard nodes for an ApsaraDB for MongoDB sharded cluster instance.

Before you call this operation, make sure that you fully understand the billing methods and [pricing](#).

This operation applies only to sharded cluster instances.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateNodeBatch	The operation that you want to perform. Set the value to CreateNodeBatch .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.
ClientToken	String	No	ETnLlblzczshOTUbOCz***	The client token that is used to ensure the idempotence of the request. You can use the client to generate the value, but you must make sure that it is unique among different requests. The token can contain only ASCII characters and cannot exceed 64 characters in length.
FromApp	String	No	OpenApi	<p>The source of the request. Valid values:</p> <ul style="list-style-type: none">• OpenApi: the ApsaraDB for MongoDB API• mongo_buy: the ApsaraDB for MongoDB console

Parameter	Type	Required	Example	Description
AutoPay	Boolean	No	true	<p>Specifies whether to enable automatic payment for the instance. Valid values:</p> <ul style="list-style-type: none"> • true: enables automatic payment. Make sure that you have sufficient balance within your account. • false: disables automatic payment. You can perform the following operations to pay for the instance: Log on to the ApsaraDB for MongoDB console. In the upper-right corner of the page, click Expenses to go to the Billing Management console. In the left-side navigation pane, click Orders. On the Orders page, find the order and complete the payment. <p>Default value: true.</p>
DBInstanceId	String	Yes	dds-bp18b0934e70*** *	The ID of the instance for which you want to add nodes.
NodesInfo	String	Yes	null	<p>The configurations of the mongos or shard nodes that you want to add. For more information, see Instance types.</p> <div style="background-color: #e0f2f1; padding: 10px;"> ? Note You can add a maximum of 32 mongos or shard nodes for each ApsaraDB for MongoDB sharded cluster instance. If you need more than 32 mongos or shard nodes in a sharded cluster instance, submit a ticket. </div>
CouponNo	String	No	youhuiquan_promotion_option_id_for_blank	<p>The coupon code. Default value: <code>youhuiquan_promotion_option_id_for_blank</code>.</p>
BusinessInfo	String	No	{ "ActivityId":"00000000"}	The business information.

Response parameters

Parameter	Type	Example	Description
-----------	------	---------	-------------

Parameter	Type	Example	Description
RequestId	String	55D41A94-1ACE-55E8-8BC7-67D622E7****	The ID of the request.
OrderId	String	50179021707****	The ID of the order.
NodeId	String	d-bp18f7d6b6a7****	The ID of the added mongos or shard node.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=CreateNodeBatch
&DBInstanceId=dds-bp18b0934e70****
&NodesInfo=[{"Shards":[{"DBInstanceClass":"dds.shard.mid","DBInstanceName":"d-bp14ae4572fd**",
"Storage":20}, {"DBInstanceClass":"dds.shard.mid","DBInstanceName":"d-bp19f4f92dc5****",
"Storage":30}]}
&Common request parameters
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<CreateNodeBatchResponse>
  <RequestId>55D41A94-1ACE-55E8-8BC7-67D622E7****</RequestId>
  <OrderId>50179021707****</OrderId>
  <NodeId>d-bp18f7d6b6a7****</NodeId>
</CreateNodeBatchResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "55D41A94-1ACE-55E8-8BC7-67D622E7****",
  "OrderId" : "50179021707****",
  "NodeId" : "d-bp18f7d6b6a7****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

7.6. DeleteNode

You can call this operation to delete a shard or mongos node in a sharded cluster instance.

Before you call this operation, make sure that the following requirements are met:

- The instance is in the running state.
- The instance is a sharded cluster instance.
- The billing method of the instance is pay-as-you-go.
- The number of the shard or mongos nodes in the instance is greater than two.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteNode	The operation that you want to perform. Set the value to DeleteNode .
DBInstanceId	String	Yes	dds-bpxxxxxxx	The ID of the instance.
NodeId	String	Yes	s-bpxxxxxxx	The ID of the shard or mongos node to be deleted. You can call the DescribeDBInstanceAttribute operation to query the node ID.
ClientToken	String	No	ETnLkblzczshOTUbOCzxxxxxxxx	The client token that is used to ensure the idempotence of the request. You can use the client to generate the value, but you must make sure that it is unique among different requests. The token can contain only ASCII characters and cannot exceed 64 characters in length.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
OrderId	String	1111111111111111	The order ID of the instance.

Parameter	Type	Example	Description
RequestId	String	9F9BDE64-BF30-41F3-BD29-C19CE4AB3404	The ID of the request.
TaskId	Integer	111111111	The ID of the task.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=DeleteNode  
&NodeId=s-bpxxxxxxxx  
&DBInstanceId=dds-bpxxxxxxxx  
&<Common request parameters>
```

Sample success responses

XML format

```
<TaskId>111111111</TaskId>  
<RequestId>04BDBD93-3B59-496C-8B5E-7FF158E10C5C</RequestId>  
<OrderId>1111111111111111</OrderId>
```

JSON format

```
{  
    "TaskId": 111111111,  
    "RequestId": "04BDBD93-3B59-496C-8B5E-7FF158E10C5C",  
    "OrderId": "1111111111111111"
```

Error codes

For a list of error codes, visit the [API Error Center](#).

8. Instance management

8.1. UpgradeDBInstanceEngineVersion

You can call this operation to upgrade the database version of an ApsaraDB for MongoDB instance.

The instance must be in the running state when you call this operation.

Note

- The available database versions are subject to the storage engine used by the instance. For more information, see [MongoDB versions and storage engines](#). You can also call the [DescribeAvailableEngineVersion](#) operation to query the available database versions.
- The database version cannot be downgraded after it is upgraded.
- The instance is automatically restarted for two to three times during the upgrade process. Make sure that you upgrade the instance during off-peak hours.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpgradeDBInstanceEngineVersion	The operation that you want to perform. Set the value to UpgradeDBInstanceEngineVersion .
EngineVersion	String	Yes	4.0	The new database engine version of the instance. Valid values: 3.4 , 4.0 , and 4.2 . Note The database version must be later than the current database version of the instance.
DBInstanceId	String	Yes	dds-bpxxxxxxx	The ID of the instance.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	C4907B00-A208-4E0C-A636-AA85140E406C	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=UpgradeDBInstanceEngineVersion  
&EngineVersion=4.0  
&DBInstanceId=dds-bpxxxxxxxx  
&<Common request parameters>
```

Sample success responses

XML format

```
<UpgradeDBInstanceEngineVersionResponse>  
    <RequestId>C4907B00-A208-4E0C-A636-AA85140E406C</RequestId>  
</UpgradeDBInstanceEngineVersionResponse>
```

JSON format

```
{  
    "RequestId": "C4907B00-A208-4E0C-A636-AA85140E406C"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

8.2. UpgradeDBInstanceKernelVersion

You can call this operation to upgrade the minor database version of a MongoDB instance.

The instance must be in the running state when you call this operation.

 Note

- This operation is applicable to replica set instances and sharded cluster instances. UpgradeDBInstanceKernelVersion cannot be performed on standalone instances.
- The instance will be restarted once during the upgrade. Perform this operation during off-peak hours.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpgradeDBInstanceKernelVersion	The operation that you want to perform. Set the value to UpgradeDBInstanceKernelVersion .
DBInstanceId	String	No	dds-bpxxxxxxxx	The ID of the instance.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	27B9A130-7C4B-40D9-84E8-2FC081097AAC	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=UpgradeDBInstanceKernelVersion  
&DBInstanceId=dds-bpxxxxxxxx  
&<Common request parameters>
```

Sample success responses

XML format

```
<UpgradeDBInstanceKernelVersionResponse>  
  <RequestId>27B9A130-7C4B-40D9-84E8-2FC081097AAC</RequestId>  

```

JSON format

```
{  
  "RequestId": "27B9A130-7C4B-40D9-84E8-2FC081097AAC"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

8.3. ModifyDBInstanceMaintainTime

You can call this operation to modify the maintenance window of an ApsaraDB for MongoDB instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyDBInstanceMaintainTime	The operation that you want to perform. Set the value to ModifyDBInstanceMaintainTime .
DBInstanceId	String	Yes	dds-bpxxxxxxx	The ID of an instance.
MaintainEndTime	String	Yes	02:00Z	The end time of the maintenance window. Specify the time in the <i>HH:mmZ</i> format. The time must be in UTC.
MaintainStartTime	String	Yes	01:00Z	The start time of the maintenance window. Specify the time in the <i>HH:mmZ</i> format. The time must be in UTC.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	A9310426-C763-42A2-A3AD-70A8DA204531	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=ModifyDBInstanceMaintainTime  
&MaintainStartTime=01:00Z  
&MaintainEndTime=02:00Z  
&DBInstanceId=dds-bpxxxxxxxx  
&<Common request parameters>
```

Sample success responses

XML format

```
<ModifyDBInstanceMaintainTimeResponse>  
    <RequestId>A9310426-C763-42A2-A3AD-70A8DA204531</RequestId>  
</ModifyDBInstanceMaintainTimeResponse>
```

JSON format

```
{  
    "RequestId": "A9310426-C763-42A2-A3AD-70A8DA204531"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

8.4. ModifyDBInstanceStateDescription

You can call this operation to change the name of an ApsaraDB for MongoDB instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyDBInstanceStateDescription	The operation that you want to perform. Set the value to ModifyDBInstanceStateDescription .

Parameter	Type	Required	Example	Description
DBInstanceDescription	String	Yes	testdata	<p>The name of the instance.</p> <div style="background-color: #e1f5fe; padding: 10px;"> <p>? Note</p> <ul style="list-style-type: none"> The name cannot start with http:// or https://. The name must start with a letter. The name must be 2 to 256 characters in length, and can contain letters, underscores (_), hyphens (-), and digits. </div>
DBInstanceld	String	Yes	dds-bpxxxxxxxx	<p>The ID of the instance.</p> <div style="background-color: #e1f5fe; padding: 10px;"> <p>? Note NodeId also needs to be specified if you need to modify the name of a shard or mongos node in a replica set instance.</p> </div>
RegionId	String	No	cn-hangzhou	<p>The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.</p>
NodeId	String	No	d-bpxxxxxxxx	<p>The ID of the shard or mongos node in the sharded cluster instance.</p> <div style="background-color: #e1f5fe; padding: 10px;"> <p>? Note This parameter is valid only if you set the DBInstanceld parameter to the ID of a sharded cluster instance.</p> </div>

Response parameters

Parameter	Type	Example	Description
RequestId	String	06F8F642-4009-4FFC-80C4-9D67DBF7B74E	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=ModifyDBInstanceStateDescription  
&DBInstanceStateDescription=testdata  
&DBInstanceId=dds-bpxxxxxxxx  
&<Common request parameters>
```

Sample success responses

XML format

```
<ModifyDBInstanceStateDescriptionResponse>  
  <RequestId>06F8F642-4009-4FFC-80C4-9D67DBF7B74E</RequestId>  
</ModifyDBInstanceStateDescriptionResponse>
```

JSON format

```
{  
  "RequestId": "06F8F642-4009-4FFC-80C4-9D67DBF7B74E"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

8.5. ModifyDBInstanceStateNetExpireTime

You can call this operation to extend the retention period of the classic network of a MongoDB instance.

Before you call this operation, make sure that the following requirements are met:

- The instance is in the running state.
- The network of the instance is in hybrid access mode.

 **Note** This operation is applicable only to replica set and sharded cluster instances, but not to standalone instances.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyDBInstanceStateNetExpireTime	The operation that you want to perform. Set the value to ModifyDBInstanceStateNetExpireTime .

Parameter	Type	Required	Example	Description
ClassicExpendExpiredDays	Integer	Yes	30	The retention period of the original classic network address. Valid values: 14, 30, 60, and 120 . Unit: day.
DBInstanceId	String	Yes	dds-bpxxxxxxxx	The ID of the instance.
ConnectionString	String	No	dds-bpxxxxxxxx.mongodb.rds.aliyuncs.com	The connection string of the instance
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	459E7D5C-38DA-4E14-9C82-5B5AF693DBAB	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=ModifyDBInstanceNetExpireTime
&ClassicExpendExpiredDays=30
&DBInstanceId=dds-bpxxxxxxxx
&<Common request parameters>
```

Sample success responses

XML format

```
<ModifyDBInstanceNetExpireTimeResponse>
  <RequestId>459E7D5C-38DA-4E14-9C82-5B5AF693DBAB</RequestId>
</ModifyDBInstanceNetExpireTimeResponse>
```

JSON format

```
{
  "RequestId": "459E7D5C-38DA-4E14-9C82-5B5AF693DBAB"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

8.6. SwitchDBInstanceHA

You can call this operation to switch between the primary and secondary nodes in an ApsaraDB for MongoDB instance.

The instance must be in the running state when you call this operation.

Note

- This operation is applicable to replica set instances and sharded cluster instances, but cannot be performed on standalone instances.
- On replica set instances, the switch is performed between instances. On sharded cluster instances, the switch is performed between shards.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	SwitchDBInstanceHA	The operation that you want to perform. Set the value to SwitchDBInstanceHA .
DBInstanceId	String	Yes	dds-bpxxxxxxx	The ID of the instance.
RegionId	String	No	cn-hangzhou	The ID of the region where the instance is deployed. You can call the DescribeRegions operation to query the region ID.
Nodeld	String	No	d-bpxxxxxxx	The ID of the shard in the sharded cluster instance. <div style="background-color: #e1f5fe; padding: 10px;"><p>Note You must specify this parameter if the value of DBInstanceId is the ID of a sharded cluster instance.</p></div>

Parameter	Type	Required	Example	Description
RoleIds	String	No	972xxxx,972xxxx	<p>The IDs of the roles that you want to switch. You can call the DescribeRoleZoneInfo operation to query IDs of roles and roles of nodes.</p> <div style="background-color: #e1f5fe; padding: 10px; border-radius: 5px;"> <p>? Note</p> <ul style="list-style-type: none"> Separate role IDs with commas (,). If this parameter is not specified, roles of the primary and secondary nodes are switched. If the value of DBInstanceId is the ID of a sharded cluster instance, the roles to be switched must belong to one shard. </div>
SwitchMode	Integer	No	0	<p>The time when roles of the primary and secondary nodes are switched. Valid values:</p> <ul style="list-style-type: none"> 0: The roles are switched immediately. 1: The roles are switched during the maintenance period.

Response parameters

Parameter	Type	Example	Description
RequestId	String	26BD4E5F-BDB4-47BA-B232-413AA78CFA8F	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=SwitchDBInstanceHA
&DBInstanceId=dds-bpxxxxxxxxxx
&<Common request parameters>
```

Sample success responses

XML format

```
<SwitchDBInstanceHAResponse>
    <RequestId>26BD4E5F-BDB4-47BA-B232-413AA78CFA8F</RequestId>
</SwitchDBInstanceHAResponse>
```

JSON format

```
{
    "RequestId": "26BD4E5F-BDB4-47BA-B232-413AA78CFA8F"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

8.7. RestartDBInstance

You can call this operation to restart an ApsaraDB for MongoDB instance.

This operation can also be used to restart a shard or mongos node in a sharded cluster instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	RestartDBInstance	The operation that you want to perform. Set the value to RestartDBInstance .
DBInstanceId	String	Yes	dds-bpxxxxxxxx	The ID of the instance.
NodeId	String	No	d-bpxxxxxxxx	The ID of the shard or mongos node in the sharded cluster instance. ? Note The sharded cluster instance is restarted if you do not specify this parameter.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	149C517D-B586-47BE-A107-8673E0ED77C6	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=RestartDBInstance  
&DBInstanceId=dds-bpxxxxxxxx  
&<Common request parameters>
```

Sample success responses

XML format

```
<RestartDBInstanceResponse>  
  <RequestId>149C517D-B586-47BE-A107-8673E0ED77C6</RequestId>  
</RestartDBInstanceResponse>
```

JSON format

```
{  
  "RequestId": "149C517D-B586-47BE-A107-8673E0ED77C6"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

8.8. DeleteDBInstance

You can call this operation to release a MongoDB instance.

Ensure that the instance meets the following conditions when you call this operation:

- The instance is in the running state.
- The billing method of the instance is pay-as-you-go.

 **Note** After an instance is released, all the data in the instance is lost and cannot be retrieved. Exercise caution when you release instances.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteDBInstance	The operation that you want to perform. Set the value to DeleteDBInstance .
DBInstanceId	String	Yes	dds-bpxxxxxxxx	The ID of the instance.
ClientToken	String	No	ETnLKLbzczshOTUbOCxxxxxxxxxx	The client token that is used to ensure idempotence of the request. You can use the client to generate the value, but you must make sure that it is unique among different requests. The token can contain only ASCII characters and cannot exceed 64 characters in length.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	72651AF9-7897-41A7-8B67-6C15C7F26A0A	The ID of the request.

Examples

Sample request

```
http(s)://mongodb.aliyuncs.com/? Action=DeleteDBInstance
&DBInstanceId=dds-bpxxxxxxxx
&<Common request parameters>
```

Sample success responses

XML format

```
<DeleteDBInstanceResponse>
  <RequestId>72651AF9-7897-41A7-8B67-6C15C7F26A0A</RequestId>
</DeleteDBInstanceResponse>
```

JSON format

```
{  
    "RequestId": "72651AF9-7897-41A7-8B67-6C15C7F26A0A"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

8.9. DestroyInstance

Destroys an ApsaraDB for MongoDB instance.

Before you call this API operation, make sure that the ApsaraDB for MongoDB instance meets the following requirements:

- The billing method of the instance is subscription.
- The instance has expired and is in the **Locking** state.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DestroyInstance	The operation that you want to perform. Set the value to DestroyInstance .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the most recent region list.
InstanceId	String	No	dds-bp147acd4783*** *	The ID of the instance. <div style="background-color: #e0f2ff; padding: 10px; border-radius: 5px;">Note <code>InstanceId</code> and <code>DBInstanceId</code> serve the same function. You need only to specify one of them.</div>

Parameter	Type	Required	Example	Description
DBInstanceId	String	No	dds-bp147acd4783**** *	The ID of the instance. Note <code>InstanceId</code> and <code>DBInstanceId</code> serve the same function. You need only to specify one of them.
ClientToken	String	No	ETnLkblzczshOTUbOCz****	The client token that is used to ensure the idempotence of the request. You can use the client to generate the value, but you must make sure that it is unique among different requests. The token can only contain ASCII characters and cannot exceed 64 characters in length.
ResourceGroupId	String	No	rg-acfmyiu4ekp****	The ID of the resource group.

Response parameters

Parameter	Type	Example	Description
RequestId	String	65BDA532-28AF-4122-AA39-B382721E****	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DestroyInstance
&DBInstanceId=dds-bp147acd4783****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DestroyInstanceResponse>
    <RequestId> 65BDA532-28AF-4122-AA39-B382721E****</RequestId>
</DestroyInstanceResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
    "RequestId" : " 65BDA532-28AF-4122-AA39-B382721E****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

9.Querying Instance Information

9.1. DescribeDBInstancesOverview

Queries the overview information of one or more ApsaraDB for MongoDB instances.

- If you do not specify an instance when you call this operation, the overview information of all instances in the specified region within this account is returned.
- Paged query is disabled for this operation.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDBInstancesOverview	The operation that you want to perform. Set the value to DescribeDBInstancesOverview .
RegionId	String	Yes	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the most recent region list.
InstanceIds	String	No	dds-bp12c5b040dc****	<p>The ID of the instance for which you want to query the overview information.</p> <div style="background-color: #e1f5fe; padding: 10px; border-radius: 5px;"><p>Note</p><ul style="list-style-type: none">• If you do not specify this parameter, the overview information of all instances under this account is queried.• Separate the instance IDs with commas (,).</div>
InstanceStatus	String	No	Running	The state of the instance. For more information about valid values, see Instance states .

Parameter	Type	Required	Example	Description
ChargeType	String	No	PostPaid	The billing method of the instance. Valid values: <ul style="list-style-type: none">• PrePaid: subscription• PostPaid: pay-as-you-go
NetworkType	String	No	Classic	The network type of the instance. Valid values: <ul style="list-style-type: none">• Classic• VPC
EngineVersion	String	No	4.0	The database engine version of the instance. Valid values: 5.0 , 4.4 , 4.2 , 4.0 , and 3.4 .
InstanceClass	String	No	dds.mongo.2xlarge	The instance type of the instance. The instance type varies based on the instance architecture. For more information about instance types supported by different instance architectures, see the following topics: <ul style="list-style-type: none">• Standalone instance types• Replica set instance types• Sharded cluster instance types
VpcId	String	No	vpc-bp1nme44gek34s1fc***	The ID of the virtual private cloud (VPC).
vSwitchId	String	No	vsw-bp1e7clcw529l773d***	The ID of the vSwitch.

Parameter	Type	Required	Example	Description
InstanceType	String	No	replicate	<p>The category of the instance. Valid values:</p> <ul style="list-style-type: none"> • sharding: sharded cluster instance • replicate: replica set or standalone instance <div style="background-color: #e1f5fe; padding: 10px;"> <p>Note</p> <ul style="list-style-type: none"> • To query the overview information of a sharded cluster instance, you must set the parameter to sharding. • If you do not specify this parameter, the overview information of all instances under this account is queried. </div>
ZoneId	String	No	cn-hangzhou-b	The ID of the zone.
ResourceGroupId	String	No	rg-acfmyiu4ekp****	The ID of the resource group. For more information, see View basic information of a resource group .

Response parameters

Parameter	Type	Example	Description
TotalCount	String	1	The number of instances in the query result.
RequestId	String	52820D2B-B2DD-59F0-BDF2-83EC19C6F1CA	The ID of the request.
DBInstances	Array of DBInstance		Details about the instances.
CreationTime	String	2022-01-05T03:18:53Z	The time when the instance was created. The time is in the <i>yyyy-MM-ddT HH:mm:ssZ</i> format. The time is displayed in UTC.

Parameter	Type	Example	Description
ExpireTime	String	2022-02-05T16:00Z	The time when the instance expires. The time is in the <code>yyyy-MM-ddT HH:mmZ</code> format. The time is displayed in UTC.
Tags	Array of Tag		The tags of the instance.
Key	String	testdatabase	<p>The key of tag N of the instance. Valid values of N: 1 to 20.</p> <ul style="list-style-type: none"> • The key cannot start with <code>aliyun</code>, <code>acs:</code>, <code>http://</code>, or <code>https://</code>. • The key can be up to 64 characters in length. • The key cannot be an empty string.
Value	String	apitest	<p>The value of tag N of the instance. Valid values of N: 1 to 20.</p> <ul style="list-style-type: none"> • The value cannot start with <code>aliyun</code>, <code>acs:</code>, <code>http://</code>, or <code>https://</code>. • The value can be up to 128 characters in length. • The value can be an empty string.
LastDowngradeTime	String	2021-05-08	The last time when the instance was downgraded.
ShardList	Array of ShardAttribute		<p>Details about the shard node.</p> <div style="background-color: #e0f2f1; padding: 10px;"> ? Note This parameter is returned if the instance is a sharded cluster instance. </div>
NodeClass	String	dds.shard.mid	The instance type of the shard node.
NodeDescription	String	Test shard node	The description of the shard node.
NodeStorage	Integer	10	The storage capacity of the shard node. Unit: GB.
NodeId	String	d-bp1cac6f2083***	The ID of the shard node.

Parameter	Type	Example	Description
ReadonlyReplicas	Integer	2	The number of read-only nodes in the shard node. Valid values: 0 to 5.
DBInstanceType	String	replicate	<p>The category of the instance. Valid values:</p> <ul style="list-style-type: none"> • sharding: sharded cluster instance • replicate: replica set or standalone instance
DestroyTime	String	2021-12-10T16:00:00Z	The time when the instance data was destroyed. The time is in the yyyy-MM-ddTHH:mm:ssZ format. The time is displayed in UTC.
ChargeType	String	PrePaid	<p>The billing method of the instance. Valid values:</p> <ul style="list-style-type: none"> • PrePaid: subscription • PostPaid: pay-as-you-go
CapacityUnit	String	100	<p>The I/O throughput consumed by the instance.</p> <div style="background-color: #e0f2ff; padding: 10px;"> <p>? Note</p> <ul style="list-style-type: none"> • This parameter is returned when the instance is a serverless instance. • Serverless instances are available only in the China site (aliyun.com). </div>
VpcAuthMode	String	Open	<p>Indicates whether password-free access within a VPC is enabled. Valid values:</p> <ul style="list-style-type: none"> • Open: Password-free access is enabled. • Close: Password-free access is disabled.
DBInstanceState	String	Running	The state of the instance. For more information about valid values, see Instance states .

Parameter	Type	Example	Description
NetworkType	String	VPC	<p>The network type of the instance. Valid values:</p> <ul style="list-style-type: none"> • Classic • VPC
LockMode	String	Unlock	<p>Indicates whether the instance is locked. Valid values:</p> <ul style="list-style-type: none"> • Unlock: The instance is not locked. • ManualLock: The cluster is manually locked. • LockByExpiration: The instance is automatically locked after it expires. • LockByRestoration: The instance is automatically locked before it is rolled back. • LockByDiskQuota: The instance is automatically locked after the storage capacity is exhausted. • Released: The instance is released. After an instance is released, the instance cannot be unlocked. You can only restore the backup data of the instance to a new instance. This process requires an extended period of time.
EngineVersion	String	4.2	The database engine version of the instance.
MongosList	Array of MongosAttribute		<p>Details about the mongos node.</p> <div style="background-color: #e0f2ff; padding: 10px; border-radius: 5px;"> ? Note This parameter is returned if the instance is a sharded cluster instance. </div>
NodeClass	String	dds.mongos.standard	The type of the mongos node.
NodeDescription	String	Test mongos node	The description of the mongos node.
NodeId	String	s-bp10e3b0d02f***	The ID of the mongos node.
RegionId	String	cn-hangzhou	The region ID of the instance.

Parameter	Type	Example	Description
DBInstanceStorage	Integer	20	The storage capacity of the instance.
ResourceGroupId	String	rg-acfm22cdcg****	The ID of the resource group.
ZoneId	String	cn-hangzhou-i	The zone ID of the instance.
DBInstanceId	String	dds-bp12c5b040dc****	The ID of the instance.
DBInstanceClass	String	dds.mongo.mid	<p>The instance type of the instance. The instance type varies based on the instance architecture. For more information about instance types supported by different instance architectures, see the following topics:</p> <ul style="list-style-type: none"> • Standalone instance types • Replica set instance types • Sharded cluster instance types
Engine	String	MongoDB	The database engine of the instance. Set the value to MongoDB .
ReplicationFactor	String	3	<p>The number of nodes in the instance.</p> <div style="background-color: #e0f2ff; padding: 10px;"> ? Note This parameter is returned if the instance is a replica set instance. </div>
DBInstanceDescription	String	test database	The description of the instance.
KindCode	String	0	<p>The kind code of the instance. Valid values:</p> <ul style="list-style-type: none"> • 0: physical machine • 1: Elastic Compute Service (ECS) instance • 2: Docker cluster • 18: Kubernetes cluster

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeDBInstancesOverview  
&RegionId=cn-hangzhou  
&InstanceIds=dds-bp12c5b040dc****  
&Common request parameters
```

Sample success responses

XML format

```
HTTP/1.1 200 OK  
Content-Type:application/xml  
<DescribeDBInstancesOverviewResponse>  
  <TotalCount>1</TotalCount>  
  <RequestId>52820D2B-B2DD-59F0-BDF2-83EC19C6F1CA</RequestId>  
  <DBInstances>  
    <EngineVersion>4.2</EngineVersion>  
    <DBInstanceState>Running</DBInstanceState>  
    <ResourceGroupId>rg-acfm22cdcgc****</ResourceGroupId>  
    <ZoneId>cn-hangzhou-i</ZoneId>  
    <ReplicationFactor>3</ReplicationFactor>  
    <CapacityUnit/>  
    <DBInstanceClass>dds.mongo.mid</DBInstanceClass>  
    <DBInstanceType>replicate</DBInstanceType>  
    <LockMode>Unlock</LockMode>  
    <DBInstanceId>dds-bp12c5b040dc****</DBInstanceId>  
    <ChargeType>PrePaid</ChargeType>  
    <NetworkType>VPC</NetworkType>  
    <DBInstanceStorage>20</DBInstanceStorage>  
    <CreationTime>2022-01-05T03:18:53Z</CreationTime>  
    <RegionId>cn-hangzhou</RegionId>  
    <ExpireTime>2022-02-05T16:00Z</ExpireTime>  
    <KindCode>0</KindCode>  
    <Engine>MongoDB</Engine>  
    <DBInstanceDescription>Test database</DBInstanceDescription>  
  </DBInstances>  
</DescribeDBInstancesOverviewResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
    "TotalCount" : 1,
    "RequestId" : "52820D2B-B2DD-59F0-BDF2-83EC19C6F1CA",
    "DBInstances" : [ {
        "EngineVersion" : "4.2",
        "DBInstanceStatus" : "Running",
        "ResourceGroupId" : "rg-acfm22cdcgc****",
        "ZoneId" : "cn-hangzhou-i",
        "ReplicationFactor" : "3",
        "CapacityUnit" : "",
        "DBInstanceClass" : "dds.mongo.mid",
        "DBInstanceType" : "replicate",
        "LockMode" : "Unlock",
        "DBInstanceId" : "dds-bp12c5b040dc****",
        "ChargeType" : "PrePaid",
        "NetworkType" : "VPC",
        "DBInstanceStorage" : 20,
        "CreationTime" : "2022-01-05T03:18:53Z",
        "RegionId" : "cn-hangzhou",
        "ExpireTime" : "2022-02-05T16:00Z",
        "KindCode" : 0,
        "Engine" : "MongoDB",
        "DBInstanceDescription": "Test database"
    } ]
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

9.2. DescribeReplicaSetRole

You can call this operation to query the role and connection information of an ApsaraDB for MongoDB instance.

This operation is applicable to replica set instances and standalone instances, but not to sharded cluster instances.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
-----------	------	----------	---------	-------------

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeReplicaSetRole	The operation that you want to perform. Set the value to DescribeReplicaSetRole .
DBInstanceId	String	Yes	dds-bpxxxxxxx	The ID of the instance.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	DB4A0595-FCA9-437F-B2BB-25DBFC009D3E	The ID of the request.
DBInstanceId	String	dds-bpxxxxxxx	The ID of the instance.
ReplicaSets	Array		Details about the replica set roles.
ReplicaSet			
ConnectionDomain	String	dds-bpxxxxxxx.mongodb.rds.aliyuncs.com	The endpoint of the node.
ConnectionPort	String	3717	The port of the node.
ExpiredTime	String	1209582	The remaining duration of the classic network endpoint. Unit: seconds.
NetworkType	String	VPC	<p>The network type. Valid values:</p> <ul style="list-style-type: none"> • VPC • Classic • Public
ReplicaSetRole	String	Primary	<p>The role of the node in the replica set.</p> <ul style="list-style-type: none"> • Primary • Secondary

Parameter	Type	Example	Description
RoleID	String	651xxxxx	The role ID of the node.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeReplicaSetRole  
&DBInstanceId=dds-bpxxxxxxxxx  
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeReplicaSetRoleResponse>
<RequestId>7762D0FF-F34D-4DAF-9D06-6C1C28CC98CD</RequestId>
<DBInstanceId>dds-bpxxxxxxxx</DBInstanceId>
<ReplicaSets>
    <ReplicaSet>
        <NetworkType>Classic</NetworkType>
        <ConnectionPort>3717</ConnectionPort>
        <ReplicaSetRole>Primary</ReplicaSetRole>
        <ConnectionDomain>dds-bpxxxxxxxx.mongodb.rds.aliyuncs.com</ConnectionDomain>
    in>
        <ExpiredTime>12xxxxx</ExpiredTime>
        <RoleId>55xxxxx</RoleId>
    </ReplicaSet>
    <ReplicaSet>
        <NetworkType>Classic</NetworkType>
        <ConnectionPort>3717</ConnectionPort>
        <ReplicaSetRole>Secondary</ReplicaSetRole>
        <ConnectionDomain>dds-bpxxxxxxxx.mongodb.rds.aliyuncs.com</ConnectionDomain>
    in>
        <ExpiredTime>12xxxxx</ExpiredTime>
        <RoleId>55xxxxx</RoleId>
    </ReplicaSet>
    <ReplicaSet>
        <NetworkType>VPC</NetworkType>
        <ConnectionPort>3717</ConnectionPort>
        <ReplicaSetRole>Primary</ReplicaSetRole>
        <ConnectionDomain>dds-bpxxxxxxxx.mongodb.rds.aliyuncs.com</ConnectionDomain>
    in>
        <RoleId>55xxxxx</RoleId>
    </ReplicaSet>
    <ReplicaSet>
        <NetworkType>VPC</NetworkType>
        <ConnectionPort>3717</ConnectionPort>
        <ReplicaSetRole>Secondary</ReplicaSetRole>
        <ConnectionDomain>dds-bpxxxxxxxx.mongodb.rds.aliyuncs.com</ConnectionDomain>
    in>
        <RoleId>55xxxxx</RoleId>
    </ReplicaSet>
</ReplicaSets>
</DescribeReplicaSetRoleResponse>
```

JSON format

```
{  
    "RequestId": "7762D0FF-F34D-4DAF-9D06-6C1C28CC98CD",  
    "DBInstanceId": "dds-bpxxxxxxxx",  
    "ReplicaSets": [  
        "ReplicaSet": [  
            {  
                "NetworkType": "Classic",  
                "ConnectionPort": "3717",  
                "ReplicaSetRole": "Primary",  
                "ConnectionDomain": "dds-bpxxxxxxxx.mongodb.rds.aliyuncs.com",  
                "ExpiredTime": "12xxxxxx",  
                "RoleId": "55xxxxxx"  
            },  
            {  
                "NetworkType": "Classic",  
                "ConnectionPort": "3717",  
                "ReplicaSetRole": "Secondary",  
                "ConnectionDomain": "dds-bpxxxxxxxx.mongodb.rds.aliyuncs.com",  
                "ExpiredTime": "12xxxxxx",  
                "RoleId": "55xxxxxx"  
            },  
            {  
                "NetworkType": "VPC",  
                "ConnectionPort": "3717",  
                "ReplicaSetRole": "Primary",  
                "ConnectionDomain": "dds-bpxxxxxxxx.mongodb.rds.aliyuncs.com",  
                "RoleId": "55xxxxxx"  
            },  
            {  
                "NetworkType": "VPC",  
                "ConnectionPort": "3717",  
                "ReplicaSetRole": "Secondary",  
                "ConnectionDomain": "dds-bpxxxxxxxx.mongodb.rds.aliyuncs.com",  
                "RoleId": "55xxxxxx"  
            }  
        ]  
    }  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

9.3. DescribeKernelReleaseNotes

You can call this operation to query the release notes of the minor database versions of a MongoDB instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeKernelReleaseNotes	The operation that you want to perform. Set the value to DescribeKernelReleaseNotes .
KernelVersion	String	No	mongodb_20180522_0.4.8	<p>The number of the minor database version. For example: mongodb_20180522_0.4.8.</p> <ul style="list-style-type: none">If you specify this parameter, a list of version numbers later than the version specified is returned.If you do not specify this parameter, a list of all the version numbers is returned.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query available regions.

Response parameters

Parameter	Type	Example	Description
ReleaseNotes	Array		The list of version release notes.
ReleaseNote			
KernelVersion	String	mongodb_20180619_0.4.9	The version number.
ReleaseNote	String	Released the balancer switch limit for a sharded set	Publishes the log.
RequestId	String	F01D4DDA-CB72-4083-B399-AF4642294FE6	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=DescribeKernelReleaseNotes  
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeKernelReleaseNotesResponse>
    <RequestId>F01D4DDA-CB72-4083-B399-AF4642294FE6</RequestId>
    <ReleaseNotes>
        <ReleaseNote>
            <KernelVersion>mongodb_20180619_0.4.9</KernelVersion>
            <ReleaseNote>Released the balancer switch limit for a sharded set</ReleaseNote>
        </ReleaseNote>
    </ReleaseNotes>
</DescribeKernelReleaseNotesResponse>
```

JSON format

```
{
    "RequestId": "F01D4DDA-CB72-4083-B399-AF4642294FE6",
    "ReleaseNotes": {
        "ReleaseNote": [
            {
                "KernelVersion": "mongodb_20180619_0.4.9",
                "ReleaseNote": "Released the balancer limit for a sharded set"
            }
        ]
    }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

9.4. DescribeAvailableEngineVersion

You can call this operation to query the engine versions to which an ApsaraDB for MongoDB instance can be upgraded.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeAvailableEngineVersion	The operation that you want to perform. Set the value to DescribeAvailableEngineVersion .
DBInstanceId	String	Yes	dds-bpxxxxxxx	The ID of the instance.

Parameter	Type	Required	Example	Description
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	52507B6B-003B-47A3-A0A3-9FE992C7A243	The ID of the request.
EngineVersions	List	{"EngineVersion": ["4.0"]}	The list of one or more engine versions to which an ApsaraDB for MongoDB instance can be upgraded. Note An empty string is returned if the latest version is being used.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=DescribeAvailableEngineVersion  
&DBInstanceId=dds-bpxxxxxxxx  
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeAvailableEngineVersionResponse>  
  <EngineVersions>  
    <EngineVersion>4.0</EngineVersion>  
  </EngineVersions>  
  <RequestId>52507B6B-003B-47A3-A0A3-9FE992C7A243</RequestId>  
</DescribeAvailableEngineVersionResponse>
```

JSON format

```
{  
    "EngineVersions": {  
        "EngineVersion": [  
            "4.0"  
        ]  
    },  
    "RequestId": "52507B6B-003B-47A3-A0A3-9FE992C7A243"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

9.5. DescribeDBInstances

Queries the list of ApsaraDB for MongoDB instances.

The list of replica set and standalone instances is displayed when the **DBInstanceType** parameter uses the default value **replicate**. To query the list of sharded cluster instances, you must set the **DBInstanceType** parameter to **sharding**.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDBInstances	The operation that you want to perform. Set the value to DescribeDBInstances .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the most recent region list.
PageNumber	Integer	No	1	The number of the page to return.
PageSize	Integer	No	30	The number of entries to return on each page. Valid values: 30, 50, and 100 . Default value: 30.
DBInstanceId	String	No	dds-bp199659b178*** *	The ID of the instance.

Parameter	Type	Required	Example	Description
ReplicationFactor	String	No	3	The number of nodes in a replica set instance. Valid values: 3, 5, and 7.
DBInstanceDescription	String	No	testdatabase	The name of the instance, support fuzzy searching.
ExpireTime	String	No	2019-12-26T16:00Z	The time when the instance expires.
DBInstanceState	String	No	Running	The state of the instance. For more information about valid values, see Instance states .
DBInstanceType	String	No	sharding	<p>The category of the instance. Valid values:</p> <ul style="list-style-type: none">• sharding: sharded cluster instance• replicate: replica set or standalone instance <div style="background-color: #e1f5fe; padding: 10px; border-radius: 10px;"><p>Note</p><ul style="list-style-type: none">• To query the list of sharded cluster instances, you must set the parameter to sharding.• The list of replica set and standalone instances is displayed when the parameter uses the default value replicate.</div>
DBInstanceClass	String	No	dds.mongo.mid	The instance type. For more information about valid values, see Instance types .
Engine	String	No	MongoDB	The database engine of the instance. Set the value to MongoDB .

Parameter	Type	Required	Example	Description
EngineVersion	String	No	4.0	The engine version of the instance. Valid values: <ul style="list-style-type: none">• 5.0• 4.4• 4.2• 4.0• 3.4
NetworkType	String	No	VPC	The network type of the instance. Valid values: <ul style="list-style-type: none">• Classic• VPC
VpcId	String	No	vpc-bp1n3i15v90el48nx****	The VPC ID of the instance.
vSwitchId	String	No	vsw-bp1vj604nj5a9zz74****	The vSwitch ID of the instance.
ChargeType	String	No	PrePaid	The billing method of the instance. Valid values: <ul style="list-style-type: none">• PrePaid: subscription• PostPaid: pay-as-you-go
ZoneId	String	No	cn-hangzhou-b	The zone ID of the instance. You can call the DescribeRegions operation to query the most recent zone list.
Expired	String	No	true	Specifies whether the instance expires. Valid values: <ul style="list-style-type: none">• true: The instance has expired.• false: The instance has not expired.
ConnectionDomain	String	No	dds-bp1ea17b41abecf43****.mongodb.rds.aliyuncs.com	The endpoint of the node. You can call the DescribeDBInstanceAttribute operation to query the endpoint of the node.
ResourceGroupId	String	No	rg-acfmyiu4ekp****	The ID of the resource group.

Parameter	Type	Required	Example	Description
Tag.N.Key	String	No	testdatabase	<p>The key of tag N. Valid values of N: 1 to 20.</p> <ul style="list-style-type: none"> The key cannot start with aliyun , acs: , http:// , or https:// . It can be up to 64 characters in length. The key cannot be an empty string.
Tag.N.Value	String	No	apitest	<p>The value of tag N. Valid values of N: 1 to 20.</p> <ul style="list-style-type: none"> The value cannot start with aliyu n , acs: , http:// , or ht ps:// . It can be up to 128 characters in length. The value can be an empty string.

Response parameters

Parameter	Type	Example	Description
TotalCount	Integer	5	The number of instances in the query results.
RequestId	String	0E4FE33F-5510-5758-8FA7-A6672CDE***	The ID of the request.
PageSize	Integer	30	The number of entries returned per page.
PageNumber	Integer	1	The page number of the returned page.
DBInstances	Array of DBInstance		Details about the instances.
DBInstance			
CreationTime	String	2021-03-25T02:18:00Z	The time when the instance was created. The time is in the <code>yyyy-MM-ddT HH:mm:ssZ</code> format. The time is displayed in UTC.

Parameter	Type	Example	Description
ChargeType	String	PrePaid	<p>The billing method of the instance.</p> <ul style="list-style-type: none"> • PrePaid: subscription • PostPaid: pay-as-you-go
Tags	Array of Tag		Details about the resource tags.
Tag			
Key	String	test	The tag key of the resource.
Value	String	api	The tag value of the resource.
VpcAuthMode	String	Close	<p>Indicates whether password-free access within the VPC is enabled. Valid values:</p> <ul style="list-style-type: none"> • Open: Password-free access is enabled. • Close: Password-free access is disabled.
NetworkType	String	Classic	<p>The network type of the instance. Valid values:</p> <ul style="list-style-type: none"> • Classic • VPC
LockMode	String	Unlock	<p>Indicates whether the instance is locked. Valid values:</p> <ul style="list-style-type: none"> • Unlock: The instance is not locked. • ManualLock: The instance is manually locked. • LockByExpiration: The instance is automatically locked after it expires. • LockByRestoration: The instance is automatically locked before it is rolled back. • LockByDiskQuota: The instance is automatically locked after the storage space is exhausted. • Released: The instance is released. After an instance is released, the instance cannot be unlocked. You can only restore the backup data of the instance to a new instance. This process requires a long period of time.

Parameter	Type	Example	Description
EngineVersion	String	4.2	The engine version of the instance.
MongosList	Array of MongosAttribute		Details about the mongos node.
MongosAttribute			
NodeClass	String	dds.mongos.standard	The type of the mongos node.
NodeDescription	String	testmongosnode	The description of the mongos node.
NodeId	String	s-bp10e3b0d02f***	The ID of the mongos node.
DBInstanceDescription	String	testdatabase	The description of the instance.
ExpireTime	String	2021-11-25T16:00Z	The time when the instance expires. The time is in the <i>yyyy-MM-ddTHH:mmZ</i> format. The time is displayed in UTC.
DBInstanceType	String	sharding	<p>The category of the instance. Valid values:</p> <ul style="list-style-type: none"> • sharding: sharded cluster instance • replicate: replica set or standalone instance
LastDowngradeTime	String	2021-05-08	The last time when the instance was downgraded.
ShardList	Array of ShardAttribute		<p>Details about the shard node.</p> <div style="background-color: #e0f2f1; padding: 5px;"> ? Note This parameter is returned if the instance is a sharded cluster instance. </div>
ShardAttribute			
NodeClass	String	dds.shard.mid	The type of the shard node.
NodeDescription	String	testshardnode	The description of the shard node.

Parameter	Type	Example	Description
NodeStorage	Integer	10	The storage space of the shard node. Unit: GB.
NodeId	String	d-bp1cac6f2083***	The ID of the shard node.
ReadonlyReplicas	Integer	2	<p>The number of read-only nodes in the shard node. Valid values: 0 to 5.</p> <div style="background-color: #e1f5fe; padding: 10px;"> ? Note This parameter is supported only for sharded cluster instances whose billing type is subscription. </div>
DestroyTime	String	2021-12-10T16:00:00Z	<p>The time when the instance data was destroyed. The time is in the <i>yyyy-MM-ddTHH:mm:ssZ</i> format. The time is displayed in UTC.</p> <div style="background-color: #e1f5fe; padding: 10px;"> ? Note <ul style="list-style-type: none"> Subscription instances are released 15 days after expiration. After an instance is released, its data is deleted and cannot be restored. Pay-as-you-go instances are locked after the payment has been overdue for longer than 24 hours. The instance is released after it has been overdue for longer than 15 days. The data of released instances is deleted and cannot be restored. </div>
DBInstanceState	String	Running	The state of the instance. For more information, see Instance states .
RegionId	String	cn-hangzhou	The region ID of the instance.
DBInstanceStorage	Integer	20	The storage capacity of the instance.

Parameter	Type	Example	Description
ResourceGroupId	String	rg-acfmyiu4ekp****	The ID of the resource group.
ZoneId	String	cn-hangzhou-f	The zone ID of the instance.
DBInstanceId	String	dds-bp18b0934e70****	The ID of the instance.
DBInstanceClass	String	dds.mongo.mid	The instance type.
Engine	String	MongoDB	The database engine of the instance.
ReplicationFactor	String	3	<p>The number of nodes in the instance.</p> <div style="background-color: #e1f5fe; padding: 5px;"> ? Note This parameter is returned if the instance is a replica set instance. </div>
KindCode	String	1	<p>The kind code of the instance. Valid values:</p> <ul style="list-style-type: none"> • 0: physical machine • 1: ECS instance • 2: Docker cluster • 18: Kubernetes cluster
CapacityUnit	String	100	<p>The I/O throughput consumed by the instance.</p> <div style="background-color: #e1f5fe; padding: 5px;"> ? Note This parameter is returned when the instance is a serverless instance. </div>

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeDBInstances
&DBInstanceType=sharding
&NetworkType=classic
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
```

```
Content-Type:application/xml
<DescribeDBInstancesResponse>
    <TotalCount>1</TotalCount>
    <RequestId>0E4FE33F-5510-5758-8FA7-A6672CDE****</RequestId>
    <PageSize>30</PageSize>
    <PageNumber>1</PageNumber>
    <DBInstances>
        <DBInstance>
            <EngineVersion>4.2</EngineVersion>
            <DBInstanceState>Running</DBInstanceState>
            <ResourceGroupId>rg-acfmyiu4ekp****</ResourceGroupId>
            <ZoneId>cn-hangzhou-f</ZoneId>
            <CapacityUnit/>
            <DBInstanceClass>dds.mongo.logic</DBInstanceClass>
            <ShardList>
                <ShardAttribute>
                    <NodeClass>dds.shard.mid</NodeClass>
                    <ReadonlyReplicas>0</ReadonlyReplicas>
                    <NodeStorage>10</NodeStorage>
                    <NodeId>d-bp1403708ef6****</NodeId>
                </ShardAttribute>
                <ShardAttribute>
                    <NodeClass>dds.shard.mid</NodeClass>
                    <ReadonlyReplicas>2</ReadonlyReplicas>
                    <NodeStorage>10</NodeStorage>
                    <NodeId>d-bp18f7d6b6a7****</NodeId>
                </ShardAttribute>
                <ShardAttribute>
                    <NodeClass>dds.shard.mid</NodeClass>
                    <NodeDescription>d-bp1cac6f2083****</NodeDescription>
                    <ReadonlyReplicas>2</ReadonlyReplicas>
                    <NodeStorage>10</NodeStorage>
                    <NodeId>d-bp1cac6f2083****</NodeId>
                </ShardAttribute>
            </ShardList>
            <DBInstanceType>sharding</DBInstanceType>
            <LockMode>Unlock</LockMode>
            <DBInstanceId>dds-bp18b0934e70****</DBInstanceId>
            <MongosList>
                <MongosAttribute>
                    <NodeClass>dds.mongos.standard</NodeClass>
                    <NodeId>s-bp10e3b0d02f****</NodeId>
                </MongosAttribute>
                <MongosAttribute>
                    <NodeClass>dds.mongos.mid</NodeClass>
                    <NodeId>s-bp1773180e38****</NodeId>
                </MongosAttribute>
                <MongosAttribute>
                    <NodeClass>dds.mongos.mid</NodeClass>
                    <NodeId>s-bp1c010266f****</NodeId>
                </MongosAttribute>
            </MongosList>
            <ChargeType>PrePaid</ChargeType>
            <NetworkType>Classic</NetworkType>
        </DBInstance>
    </DBInstances>

```

```
<CreationTime>2021-03-25T02:18:00Z</CreationTime>
<RegionId>cn-hangzhou</RegionId>
<ExpireTime>2021-11-25T16:00Z</ExpireTime>
<KindCode>0</KindCode>
<DBInstanceDescription>testdatabase</DBInstanceDescription>
<Engine>MongoDB</Engine>
<Tags>
</Tags>
</DBInstance>
</DBInstances>
</DescribeDBInstancesResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
    "TotalCount" : 1,
    "RequestId" : "0E4FE33F-5510-5758-8FA7-A6672CDE****",
    "PageSize" : 30,
    "PageNumber" : 1,
    "DBInstances" : {
        "DBInstance" : [ {
            "EngineVersion" : "4.2",
            "DBInstanceState" : "Running",
            "ResourceGroupId" : "rg-acfmyiu4ekp****",
            "ZoneId" : "cn-hangzhou-f",
            "CapacityUnit" : "",
            "DBInstanceClass" : "dds.mongo.logic",
            "ShardList" : {
                "ShardAttribute" : [ {
                    "NodeClass" : "dds.shard.mid",
                    "ReadonlyReplicas" : 0,
                    "NodeStorage" : 10,
                    "NodeId" : "d-bp1403708ef6***"
                }, {
                    "NodeClass" : "dds.shard.mid",
                    "ReadonlyReplicas" : 2,
                    "NodeStorage" : 10,
                    "NodeId" : "d-bp18f7d6b6a7***"
                }, {
                    "NodeClass" : "dds.shard.mid",
                    "NodeDescription" : "d-bp1cac6f2083****",
                    "ReadonlyReplicas" : 2,
                    "NodeStorage" : 10,
                    "NodeId" : "d-bp1cac6f2083***"
                }
            ]
        },
        "DBInstanceType" : "sharding",
        "LockMode" : "Unlock",
        "DBInstanceId" : "dds-bp18b0934e70****",
        "MongosList" : {
            "MongosAttribute" : [ {
                "NodeClass" : "dds.mongos.standard",

```

```
        "NodeId" : "s-bp10e3b0d02f****"
    },
    {
        "NodeClass" : "dds.mongos.mid",
        "NodeId" : "s-bp1773180e38****"
    },
    {
        "NodeClass" : "dds.mongos.mid",
        "NodeId" : "s-bp1c010266f****"
    }
],
"ChargeType" : "PrePaid",
"NetworkType" : "Classic",
"CreationTime" : "2021-03-25T02:18:00Z",
"RegionId" : "cn-hangzhou",
"ExpireTime" : "2021-11-25T16:00Z",
"KindCode" : 0,
"DBInstanceDescription": "testdatabase",
"Engine" : "MongoDB",
"Tags" : {
    "Tag" : [ ]
}
}
}
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

9.6. DescribeDBInstanceAttribute

Queries the details of an ApsaraDB for MongoDB instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDBInstanceAttribute	The operation that you want to perform. Set the value to DescribeDBInstanceAttribute .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the most recent region list.

Parameter	Type	Required	Example	Description
Engine	String	No	MongoDB	The database engine of the instance. Set the value to MongoDB .
DBInstanceId	String	Yes	dds-bp1a7009eb24***	The ID of the instance.
ResourceGroupId	String	No	rg-acfmyiu4ekp****	The ID of the resource group. For more information, see View basic information of a resource group .

Response parameters

Parameter	Type	Example	Description
RequestId	String	4D22A5D2-32CF-57D4-9357-2DD68ECDCC59	The ID of the request.
DBInstances	Array of DBInstance		Details about the instance.
DBInstance			
CreationTime	String	2021-12-09T09:06:01Z	The time when the instance was created. The time is in the <code>yyyy-MM-ddT HH:mm:ssZ</code> format. The time is displayed in UTC.
ReplicaSets	Array of ReplicaSet		Details about the replica set instances. ? Note This parameter is returned if the instance is a replica set instance.
ReplicaSet			
VSwitchId	String	vpc-bp1jk5vwkcri27qme***	The ID of the vSwitch. ? Note This parameter is returned if the network type is VPC.
ConnectionPort	String	3717	The port number that is used to connect to the node.

Parameter	Type	Example	Description
ReplicaSetRole	String	Primary	The role of the node. Valid values: <ul style="list-style-type: none">• Primary• Secondary
ConnectionDomain	String	dds-bp12c5b040dc5****.mongodb.rds.aliyun.cs.com	The endpoint of the node.
VPCCloudInstanceId	String	dds-bp12c5b040dc5d***	The ID of the instance. <div style="background-color: #e0f2ff; padding: 5px; border-radius: 5px;">Note This parameter is returned if the network type is VPC.</div>
NetworkType	String	VPC	The network type of the instance. Valid values: <ul style="list-style-type: none">• Classic• VPC
VPCId	String	vpc-bp1jk5vwkcri27qme***	The ID of the VPC. <div style="background-color: #e0f2ff; padding: 5px; border-radius: 5px;">Note This parameter is returned if the network type is VPC.</div>
ReplicatsetId	String	bls-m****	The logical ID of the replica instance. <div style="background-color: #e0f2ff; padding: 5px; border-radius: 5px;">Note ApsaraDB for MongoDB does not support new instances of this type. This parameter applies only to old-version replica instances.</div>
ChargeType	String	PostPaid	The billing method of the instance. Valid values: <ul style="list-style-type: none">• PrePaid: subscription• PostPaid: pay-as-you-go
Tags	Array of Tag		Details about the instance tags.
Tag			

Parameter	Type	Example	Description
Key	String	test	The key of tag N.
Value	String	api	The value of tag N.
VpcAuthMode	String	Open	Indicates whether password-free access within the VPC is enabled. Valid values: Valid values: <ul style="list-style-type: none">• Open: Password-free access is enabled.• Close: Password-free access is disabled.• NotSupport: Password-free access is not supported.
NetworkType	String	VPC	The network type of the instance. Valid values: <ul style="list-style-type: none">• Classic• VPC
LockMode	String	Unlock	Indicates whether the instance is locked. Valid values: Valid values: <ul style="list-style-type: none">• Unlock: The instance is not locked.• ManualLock: The instance is manually locked.• LockByExpiration: The instance is automatically locked after it expires.• LockByRestoration: The instance is automatically locked before it is rolled back.• LockByDiskQuota: The instance is automatically locked after the storage space is exhausted.• Released: The instance is released.
EngineVersion	String	4.2	The database engine version of the instance.
MaxIOPS	Integer	1000	The maximum IOPS of the instance.

Parameter	Type	Example	Description
VPCCloudInstances	String	dds-bp1a7009eb24****	<p>The ID of the instance.</p> <div style="background-color: #e0f2ff; padding: 5px;"> ? Note This parameter is returned if the network type is VPC. </div>
MongosList	Array of MongosAttribute		<p>Details about the mongos nodes.</p> <div style="background-color: #e0f2ff; padding: 5px;"> ? Note This parameter is returned if the instance is a sharded cluster instance. </div>
MongosAttribute			
VpcCloudInstance	String	s-bp1d8c262a158****	<p>The ID of the mongos node.</p> <div style="background-color: #e0f2ff; padding: 5px;"> ? Note This parameter is returned if the network type is VPC. </div>
MaxIOPS	Integer	800	The maximum IOPS of the mongos node.
vSwitchId	String	vsw-bp1vj604nj5a9zz74***	<p>The ID of the vSwitch.</p> <div style="background-color: #e0f2ff; padding: 5px;"> ? Note This parameter is returned if the network type is VPC. </div>
NodeClass	String	dds.mongos.mid	The instance type of the mongos node.
MaxConnections	Integer	1000	The maximum number of connections to the mongos node.
Port	Integer	3717	The port number that is used to connect to the mongos node.

Parameter	Type	Example	Description
VPCId	String	vpc-bp1n3i15v90el48nx****	The ID of the VPC. <div style="background-color: #e1f5fe; padding: 5px; border-radius: 5px;">? Note This parameter is returned if the network type is VPC.</div>
ConnectionString	String	s-bp1d8c262a15****.mongodb.rds.aliyun.cs.com	The endpoint of the mongos node.
NodeDescription	String	mongos1	The name of the mongos node.
NodeId	String	s-bp1d8c262a15****	The ID of the mongos node.
Status	String	Running	The status of the mongos node. For more information, see Instance states .
ProtocolType	String	mongodb	The access protocol type of the instance. Valid values: <ul style="list-style-type: none">• mongodb: the MongoDB protocol• dynamodb: the DynamoDB protocol
DBInstanceId	String	testdatabase	The name of the instance.
CurrentKernelVersion	String	mongodb_20211014_3.0.38	The minor version of the current database of the instance.
DBInstanceReleaseProtection	Boolean	false	Indicates whether release protection is enabled for the instance. Valid values: <ul style="list-style-type: none">• true• false

Parameter	Type	Example	Description
ExpireTime	String	2022-02-05T16:00Z	<p>The time when the subscription instance expires. The time is in the <code>yyyy-MM-ddTHH:mmZ</code> format. The time is displayed in UTC.</p> <div style="background-color: #e0f2f1; padding: 5px;"> ? Note This parameter is returned if the instance is a subscription instance. </div>
MaintainStartTime	String	18:00Z	<p>The start time of the maintenance window. The time is in the <code>HH:mmZ</code> format. The time is displayed in UTC.</p>
DBInstanceType	String	replicate	<p>The architecture of the instances. Valid values:</p> <ul style="list-style-type: none"> • replicate: replica set instance • sharding: sharded cluster instance
LastDowngradeTime	String	2022-01-08	<p>The last time when the instance was downgraded.</p>
ShardList	Array of ShardAttribute		<p>Details about the shard nodes.</p> <div style="background-color: #e0f2f1; padding: 5px;"> ? Note This parameter is returned if the instance is a sharded cluster instance. </div>
ShardAttribute			
MaxIOPS	Integer	8000	<p>The maximum IOPS of the shard node.</p>
ConnectionString	String	d-bp1af0680a9c6d3***.*.mongodb.rds.aliyuncs.com:****	<p>The endpoint of the shard node.</p>
NodeClass	String	dds.shard.mid	<p>The instance type of the shard node.</p>
MaxConnections	Integer	8000	<p>The maximum number of connections to the shard node.</p>

Parameter	Type	Example	Description
Port	Integer	3717	The port number that is used to connect to the shard node.
NodeDescription	String	testshard	The name of the shard node.
NodeId	String	d-bp16e09d9c5d****	The ID of the shard node.
NodeStorage	Integer	10	The storage capacity of the shard node.
ReadonlyReplicas	Integer	0	The number of read-only nodes in the shard node. Valid values: 0 to 5.
Status	String	Running	The status of the shard node. For more information, see Instance states .
MaintainEndTime	String	03:00Z	The end time of the maintenance window. The time is in the <i>HH:mmZ</i> format. The time is displayed in UTC.
DBInstanceState	String	Running	The status of the instance. For more information, see Instance states .
VPCId	String	vpc-bp1n3i15v90el48nx***	The ID of the VPC. ? Note This parameter is returned if the network type is VPC.
RegionId	String	cn-hangzhou	The region ID of the instance.
DBInstanceStorage	Integer	10	The storage capacity of the instance.
ReplicaSetName	String	mgset-10ace****	The name of the replica set instance. ? Note This parameter is returned if the instance is a replica set instance.

Parameter	Type	Example	Description
VSwitchId	String	vsw-bp1oo2a7isyrb8igf**	<p>The ID of the vSwitch.</p> <div style="background-color: #e0f2ff; padding: 5px;"> ? Note This parameter is returned if the network type is VPC. </div>
StorageEngine	String	WiredTiger	The storage engine of the instance.
ConfigserverList	Array of ConfigserverAttribute		<p>Details about the Configserver nodes.</p> <div style="background-color: #e0f2ff; padding: 5px;"> ? Note This parameter is returned if the instance is a sharded cluster instance. </div>
ConfigserverAttribute			
MaxIOPS	Integer	1000	The maximum IOPS of the Configserver node.
ConnectionString	String	dds-bp18b0934e7053e4-cs****.mongodb.rds.aliyuncs.com	The endpoint of the Configserver node.
NodeClass	String	dds.cs.mid	The instance type of the Configserver node.
MaxConnections	Integer	1000	The maximum number of connections to the Configserver node.
Port	Integer	3717	The port number that is used to connect to the Configserver node.
NodeDescription	String	testConfigserver	The name of the Configserver node.
NodeId	String	dds-bp11483712c1****-cs	The ID of the Configserver node.
NodeStorage	Integer	20	The storage capacity of the Configserver node.

Parameter	Type	Example	Description
-----------	------	---------	-------------

Status	String	Running	The status of the Configserver node. For more information, see Instance states .
ResourceGroupId	String	rg-acfmyiu4ekp****	The ID of the resource group.
ZoneId	String	cn-hangzhou-b	The zone ID of the instance.
MaxConnections	Integer	500	The maximum number of connections to the instance.
DBInstanceId	String	dds-bp11483712c1****	The ID of the instance.
DBInstanceClass	String	dds.mongo.mid	The instance type of the instance.
Engine	String	MongoDB	The database engine of the instance.
ReadonlyReplicas	String	1	The number of read-only nodes in the instance.
ReplicationFactor	String	3	The number of nodes that you want to create in the instance. <div style="background-color: #e0f2ff; padding: 10px; border-radius: 5px;">? Note This parameter is returned if the instance is a replica set instance.</div>
KindCode	String	1	The kind code of the instance. Valid values: <ul style="list-style-type: none">• 0: physical machine• 1: ECS instance• 2: Docker cluster• 18: Kubernetes cluster

Parameter	Type	Example	Description
CapacityUnit	String	100	<p>The I/O throughput consumed by the instance.</p> <div style="background-color: #e1f5fe; padding: 10px;"> <p>? Note</p> <ul style="list-style-type: none"> This parameter is returned when the instance is a serverless instance. Serverless instances are available only in China site (aliyun.com). </div>

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeDBInstanceAttribute
&DBInstanceId=dds-bp1a7009eb24****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDBInstanceAttributeResponse>
  <RequestId>4D22A5D2-32CF-57D4-9357-2DD68ECDCC59</RequestId>
  <DBInstances>
    <DBInstance>
      <ResourceGroupId>rg-acfm22cdcgc****</ResourceGroupId>
      <CapacityUnit/>
      <DBInstanceType>sharding</DBInstanceType>
      <StorageEngine>WiredTiger</StorageEngine>
      <ReplicaSets>
        </ReplicaSets>
      <MaintainEndTime>22:00Z</MaintainEndTime>
      <DBInstanceId>dds-bp1a7009eb24****</DBInstanceId>
      <MongosList>
        <MongosAttribute>
          <ConnectString>s-bp1d8c262a15****.mongodb.rds.aliyuncs.com</ConnectString>
        </MongosAttribute>
      </MongosList>
      <Status>Running</Status>
      <NodeClass>dds.mongos.mid</NodeClass>
      <NodeDescription/>
      <MaxConnections>1000</MaxConnections>
      <VPCId>vpc-bp1jk5vwkcri27qme****</VPCId>
      <Port>3717</Port>
      <NodeId>s-bp1d8c262a15****</NodeId>
      <VpcCloudInstanceId>s-bp1d8c262a15****</VpcCloudInstanceId>
    </DBInstance>
  </DBInstances>
</DescribeDBInstanceAttributeResponse>
```

```
<MaxIOPS>800</MaxIOPS>
</MongosAttribute>
<MongosAttribute>
    <ConnectString>s-bp1428aecdea****.mongodb.rds.aliyuncs.com</ConnectString>
    <Status>Running</Status>
    <NodeClass>dds.mongos.mid</NodeClass>
    <NodeDescription/>
    <MaxConnections>1000</MaxConnections>
    <VPCId>vpc-bp1jk5vwkcri27qme****</VPCId>
    <Port>3717</Port>
    <NodeId>s-bp1428aecdea1674</NodeId>
    <VpcCloudInstanceId>s-bp1428aecdea****</VpcCloudInstanceId>
    <MaxIOPS>800</MaxIOPS>
</MongosAttribute>
</MongosList>
<NetworkType>VPC</NetworkType>
<MaintainStartTime>18:00Z</MaintainStartTime>
<Engine>MongoDB</Engine>
<Tags>
</Tags>
<DBInstanceReleaseProtection>false</DBInstanceReleaseProtection>
<EngineVersion>4.0</EngineVersion>
<DBInstanceState>Running</DBInstanceState>
<ZoneId>cn-hangzhou-h</ZoneId>
<MaxConnections>200</MaxConnections>
<VPCId>vpc-bp1jk5vwkcri27qme****</VPCId>
<DBInstanceClass>dds.mongo.logic</DBInstanceClass>
<VSwitchId>vsw-bp1p9le7ibusmjf94****</VSwitchId>
<ShardList>
    <ShardAttribute>
        <Status>Running</Status>
        <NodeClass>dds.shard.mid</NodeClass>
        <NodeDescription/>
        <MaxConnections>8000</MaxConnections>
        <ReadonlyReplicas>0</ReadonlyReplicas>
        <NodeId>d-bp128a003436****</NodeId>
        <NodeStorage>10</NodeStorage>
        <ConnectionString/>
        <MaxIOPS>8000</MaxIOPS>
    </ShardAttribute>
    <ShardAttribute>
        <Status>Running</Status>
        <NodeClass>dds.shard.mid</NodeClass>
        <NodeDescription/>
        <MaxConnections>8000</MaxConnections>
        <ReadonlyReplicas>0</ReadonlyReplicas>
        <NodeId>d-bp1ecfe9926b****</NodeId>
        <NodeStorage>10</NodeStorage>
        <ConnectionString/>
        <MaxIOPS>8000</MaxIOPS>
    </ShardAttribute>
</ShardList>
<LockMode>Unlock</LockMode>
<MaxTQPS>800</MaxTQPS>
```

```
<ChargeType>PostPaid</ChargeType>
<VpcAuthMode>Close</VpcAuthMode>
<ProtocolType>mongodb</ProtocolType>
<CurrentKernelVersion>mongodb_20211014_3.0.38</CurrentKernelVersion>
<CreationTime>2021-12-09T09:06:01Z</CreationTime>
<ConfigserverList>
    <ConfigserverAttribute>
        <Status>Running</Status>
        <NodeClass>dds.cs.mid</NodeClass>
        <NodeDescription/>
        <NodeId>dds-bp1a7009eb24fec****</NodeId>
        <NodeStorage>20</NodeStorage>
        <ConnectionString/>
    </ConfigserverAttribute>
</ConfigserverList>
<RegionId>cn-hangzhou</RegionId>
<KindCode>0</KindCode>
</DBInstance>
</DBInstances>
</DescribeDBInstanceAttributeResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
    "RequestId" : "4D22A5D2-32CF-57D4-9357-2DD68ECDCC59",
    "DBInstances" : {
        "DBInstance" : [ {
            "ResourceGroupId" : "rg-acfm22cdcgc****",
            "CapacityUnit" : "",
            "DBInstanceType" : "sharding",
            "StorageEngine" : "WiredTiger",
            "ReplicaSets" : {
                "ReplicaSet" : [ ]
            },
            "MaintainEndTime" : "22:00Z",
            "DBInstanceId" : "dds-bp1a7009eb24****",
            "MongosList" : {
                "MongosAttribute" : [ {
                    "ConnectString" : "s-bp1d8c262a15****.mongodb.rds.aliyuncs.com",
                    "Status" : "Running",
                    "NodeClass" : "dds.mongos.mid",
                    "NodeDescription" : "",
                    "MaxConnections" : 1000,
                    "VPCId" : "vpc-bp1jk5vwkcri27qme****",
                    "Port" : 3717,
                    "NodeId" : "s-bp1d8c262a15****",
                    "VpcCloudInstanceId" : "s-bp1d8c262a15****",
                    "MaxIOPS" : 800
                }, {
                    "ConnectString" : "s-bp1428aecdea****.mongodb.rds.aliyuncs.com",
                    "Status" : "Running",
                } ]
            }
        } ]
    }
}
```

```
"NodeClass" : "dds.mongos.mid",
"NodeDescription" : "",
"MaxConnections" : 1000,
"VPCId" : "vpc-bp1jk5vwkcri27qme****",
"Port" : 3717,
"NodeId" : "s-bp1428aecdea1674",
"VpcCloudInstanceId" : "s-bp1428aecdea****",
"MaxIOPS" : 800
} ]
},
"NetworkType" : "VPC",
"MaintainStartTime" : "18:00Z",
"Engine" : "MongoDB",
"Tags" : {
    "Tag" : [ ]
},
"DBInstanceReleaseProtection" : false,
"EngineVersion" : "4.0",
"DBInstanceState" : "Running",
"ZoneId" : "cn-hangzhou-h",
"MaxConnections" : 200,
"VPCId" : "vpc-bp1jk5vwkcri27qme****",
"DBInstanceClass" : "dds.mongo.logic",
"VSwitchId" : "vsw-bp1p9le7ibusmjf94****",
"ShardList" : [
    "ShardAttribute" : [ {
        "Status" : "Running",
        "NodeClass" : "dds.shard.mid",
        "NodeDescription" : "",
        "MaxConnections" : 8000,
        "ReadonlyReplicas" : 0,
        "NodeId" : "d-bp128a003436****",
        "NodeStorage" : 10,
        "ConnectionString" : "",
        "MaxIOPS" : 8000
    }, {
        "Status" : "Running",
        "NodeClass" : "dds.shard.mid",
        "NodeDescription" : "",
        "MaxConnections" : 8000,
        "ReadonlyReplicas" : 0,
        "NodeId" : "d-bplecfe9926b****",
        "NodeStorage" : 10,
        "ConnectionString" : "",
        "MaxIOPS" : 8000
    } ]
},
"LockMode" : "Unlock",
"MaxIOPS" : 800,
"ChargeType" : "PostPaid",
"VpcAuthMode" : "Close",
"ProtocolType" : "mongodb",
"CurrentKernelVersion" : "mongodb_20211014_3.0.38",
"CreationTime" : "2021-12-09T09:06:01Z",
"ConfigServerList" : [
```

```
        "ConfigserverVersion" : "3.6.10",
        "ConfigserverAttribute" : [ {
            "Status" : "Running",
            "NodeClass" : "dds.cs.mid",
            "NodeDescription" : "",
            "NodeId" : "dds-bp1a7009eb24fec****",
            "NodeStorage" : 20,
            "ConnectionString" : ""
        } ]
    },
    "RegionId" : "cn-hangzhou",
    "KindCode" : 0
} ]
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

9.7. DescribeRoleZoneInfo

You can call this operation to query the roles and zones of nodes in an ApsaraDB for MongoDB instance.

 Note For more information, see [View the zone of a node](#).

This operation is applicable only to replica set and sharded cluster instances, but not to standalone instances.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeRoleZoneInfo	The operation that you want to perform. Set the value to DescribeRoleZoneInfo .
DBInstanceId	String	Yes	dds-bpxxxxxxxx	The ID of the instance.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	728B9A96-E262-4AE5-915E-3A51CCE2FDA9	The ID of the request.
ZoneInfos	Array		An array that consists of information of nodes in the zone.
ZoneInfo			
InsName	String	dds-bpxxxxxxx	The ID of the node.
NodeType	String	normal	<p>The type of the node. Valid values:</p> <ul style="list-style-type: none"> • normal • configServer • shard • mongos <div style="background-color: #e0f2f1; padding: 5px; border-radius: 5px;"> ? Note Valid value for replica set instances: normal. Valid values for replica set instances: configServer, shard, and mongos. </div>
RoleId	String	83xxxx	The ID of the role.
RoleType	String	Primary	<p>The role of the node. Valid values:</p> <ul style="list-style-type: none"> • Primary • Secondary • Hidden
Zoneld	String	cn-hangzhou-e	The zone ID.

Examples

Sample request

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeRoleZoneInfo
&DBInstanceId=dds-bpxxxxxxx
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeRoleZoneInfoResponse>
  <ZoneInfos>
    <ZoneInfo>
      <RoleType>Primary</RoleType>
      <NodeType>normal</NodeType>
      <InsName>dds-bpxxxxxxxx</InsName>
      <ZoneId>cn-hangzhou-e</ZoneId>
      <RoleId>83xxxxx</RoleId>
    </ZoneInfo>
    <ZoneInfo>
      <RoleType>Secondary</RoleType>
      <NodeType>normal</NodeType>
      <InsName>dds-bpxxxxxxxx</InsName>
      <ZoneId>cn-hangzhou-f</ZoneId>
      <RoleId>83xxxxx</RoleId>
    </ZoneInfo>
    <ZoneInfo>
      <RoleType>Hidden</RoleType>
      <NodeType>normal</NodeType>
      <InsName>dds-bpxxxxxxxx</InsName>
      <ZoneId>cn-hangzhou-b</ZoneId>
      <RoleId>83xxxxx</RoleId>
    </ZoneInfo>
  </ZoneInfos>
  <RequestId>728B9A96-E262-4AE5-915E-3A51CCE2FDA9</RequestId>
</DescribeRoleZoneInfoResponse>
```

JSON format

```
{  
    "ZoneInfos": {  
        "ZoneInfo": [  
            {  
                "RoleType": "Primary",  
                "NodeType": "normal",  
                "InsName": "dds-bpxxxxxxxx",  
                "ZoneId": "cn-hangzhou-e",  
                "RoleId": "83xxxxx"  
            },  
            {  
                "RoleType": "Secondary",  
                "NodeType": "normal",  
                "InsName": "dds-bpxxxxxxxx",  
                "ZoneId": "cn-hangzhou-f",  
                "RoleId": "83xxxxx"  
            },  
            {  
                "RoleType": "Hidden",  
                "NodeType": "normal",  
                "InsName": "dds-bpxxxxxxxx",  
                "ZoneId": "cn-hangzhou-b",  
                "RoleId": "83xxxxx"  
            }  
        ]  
    },  
    "RequestId": "728B9A96-E262-4AE5-915E-3A51CCE2FDA9"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

9.8.

DescribeInstanceAutoRenewalAttribute

You can call this operation to query whether auto-renewal is enabled for an ApsaraDB for MongoDB instance.

This operation is applicable to subscription instances.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeInstanceAutoRenewalAttribute	The operation that you want to perform. Set the value to DescribeInstanceAutoRenewalAttribute .
RegionId	String	Yes	cn-hangzhou	The region ID of the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of the instance.
DBInstanceId	String	No	dds-bpxxxxxxx	The ID of the instance.
DBInstanceType	String	No	replicate	<p>The category of the instance. Valid values:</p> <ul style="list-style-type: none"> • replicate: the standalone or replica set instance • sharding: the sharded cluster instance <p>Default value: replicate.</p>
PageSize	String	No	30	<p>The number of entries to return on each page. Valid values: 30, 50, and 100.</p> <div style="background-color: #e1f5fe; padding: 5px; border-radius: 5px;"> ? Note Default value: 30. </div>
PageNumber	String	No	1	The number of the page to return. The value must be a positive integer that does not exceed the maximum value of the Integer parameter. Default value: 1 .

Response parameters

Parameter	Type	Example	Description
Items	Array		Details about returned entries.
Item			

Parameter	Type	Example	Description
AutoRenew	String	true	<p>Indicates whether auto-renewal is enabled for the instance. Valid values:</p> <ul style="list-style-type: none"> • true: Auto-renewal is enabled for the instance. • false: Auto-renewal is disabled for the instance.
DBInstanceType	String	replicate	<p>The category of the instance. Valid values:</p> <ul style="list-style-type: none"> • replicate: the standalone or replica set instance • sharding: the sharded cluster instance
DbInstanceId	String	dds-bpxxxxxxx	The ID of the instance.
Duration	String	1	<p>The auto-renewal period. Unit: months.</p> <div style="background-color: #e0f2ff; padding: 10px;"> <p>? Note</p> <ul style="list-style-type: none"> • This parameter is returned only when the returned value of the <code>AutoRenew</code> parameter is <code>true</code>. • You can call the <code>ModifyInstanceAutoRenewalAttribute</code> operation to modify the auto-renewal period. </div>
RegionId	String	cn-hangzhou	The region ID of the instance.
ItemsNumbers	Integer	2	The total number of entries returned.
PageNumber	Integer	1	The page number of the returned page.
PageRecordCount	Integer	2	The number of entries that were returned on the current page.
RequestId	String	FAB5CB3B-DB9D-473A-9DF1-F57B6B9CB949	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeInstanceAutoRenewalAttribute  
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeInstanceAutoRenewalAttributeResponse>  
  <Items>  
    <Item>  
      <DBInstanceType>replicate</DBInstanceType>  
      <RegionId>cn-hangzhou</RegionId>  
      <DbInstanceId>dds-bpxxxxxxx</DbInstanceId>  
      <AutoRenew>false</AutoRenew>  
    </Item>  
    <Item>  
      <DBInstanceType>replicate</DBInstanceType>  
      <Duration>1</Duration>  
      <RegionId>cn-hangzhou</RegionId>  
      <DbInstanceId>dds-bpxxxxxxx</DbInstanceId>  
      <AutoRenew>true</AutoRenew>  
    </Item>  
  </Items>  
  <PageNumber>1</PageNumber>  
  <RequestId>FAB5CB3B-DB9D-473A-9DF1-F57B6B9CB949</RequestId>  
  <ItemsNumbers>2</ItemsNumbers>  
  <PageRecordCount>2</PageRecordCount>  
</DescribeInstanceAutoRenewalAttributeResponse>
```

JSON format

```
{  
    "Items": {  
        "Item": [  
            {  
                "DBInstanceType": "replicate",  
                "RegionId": "cn-hangzhou",  
                "DbInstanceId": "dds-bpxxxxxxxx",  
                "AutoRenew": "false"  
            },  
            {  
                "DBInstanceType": "replicate",  
                "Duration": 1,  
                "RegionId": "cn-hangzhou",  
                "DbInstanceId": "dds-bpxxxxxxxx",  
                "AutoRenew": "true"  
            }  
        ]  
    },  
    "PageNumber": 1,  
    "RequestId": "FAB5CB3B-DB9D-473A-9DF1-F57B6B9CB949",  
    "ItemsNumbers": 2,  
    "PageRecordCount": 2  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

9.9.

DescribeActiveOperationTaskCount

You can call this operation to query the number of O&M tasks on an ApsaraDB for MongoDB instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeActiveOperationTaskCount	The operation that you want to perform. Set the value to DescribeActiveOperationTaskCount .

Parameter	Type	Required	Example	Description
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.
ResourceGroupId	String	No	sg-bpxxxxxxxxxxxxxxx xxxx	The ID of the resource group.

Response parameters

Parameter	Type	Example	Description
NeedPop	Integer	0	<p>Indicates whether any O&M tasks need pop-up windows to notify users actions. Valid values:</p> <ul style="list-style-type: none"> • 0: No O&M tasks need pop-up windows to notify users actions. • 1: Some O&M tasks need pop-up windows to notify users actions.
RequestId	String	770D7F11-21A2-402B-9DF6-D1A620570EF9	The ID of the request.
TaskCount	Integer	0	The number of pending O&M tasks.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeActiveOperationTaskCount
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeActiveOperationTaskCount>
    <RequestId>770D7F11-21A2-402B-9DF6-D1A620570EF9</RequestId>
    <NeedPop>0</NeedPop>
    <TaskCount>0</TaskCount>
</DescribeActiveOperationTaskCount>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
    "RequestId": "770D7F11-21A2-402B-9DF6-D1A620570EF9",
    "NeedPop": 0,
    "TaskCount": 0
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

9.10.

DescribeActiveOperationTaskType

Queries the types of O&M tasks on an ApsaraDB for MongoDB instance and the number and details of tasks of each type.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeActiveOperationTaskType	The operation that you want to perform. Set the value to DescribeActiveOperationTaskType .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the most recent region list.
IsHistory	Integer	No	0	Specifies whether to return all O&M tasks. Valid values: • 0: returns only pending tasks. • 1: returns all tasks. Default value: 0.
ResourceGroupId	String	No	rg-acfmyiu4ekp****	The ID of the resource group.

Response parameters

Parameter	Type	Example	Description
RequestId	String	C7EE83BF-7BA8-5087-BAC9-ED85ED54****	The ID of the request.
TypeList	Array of Items		The list of tasks.
TaskType	String	rds_apsaradb_upgrade	The type of the task. Valid values: <ul style="list-style-type: none"> • rds_apsaradb_transfer: instance migration • rds_apsaradb_upgrade: minor version update
TaskTypeInfoEn	String	Update of the minor version	The task type (English).
TaskTypeInfoZh	String	rds_apsaradb_upgrade	The task type (Chinese).
Count	Integer	1	The number of pending tasks.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeActiveOperationTaskType
&RegionId=cn-hangzhou
&IsHistory=1
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeActiveOperationTaskTypeResponse>
  <RequestId>C7EE83BF-7BA8-5087-BAC9-ED85ED54****</RequestId>
  <TypeList>
    <TaskTypeInfoZh>Update of the minor version</TaskTypeInfoZh>
    <TaskType>rds_apsaradb_upgrade</TaskType>
    <Count>0</Count>
    <TaskTypeInfoEn>Minor version update</TaskTypeInfoEn>
  </TypeList>
</DescribeActiveOperationTaskTypeResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "C7EE83BF-7BA8-5087-BAC9-ED85ED54****",
  "TypeList" : [ {
    "TaskTypeInfoZh" : "Update of the minor version",
    "TaskType" : "rds_apsaradb_upgrade",
    "Count" : 0,
    "TaskTypeInfoEn" : "Minor version update"
  }]
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

10.Resource Management

10.1. EvaluateResource

Checks whether sufficient resources are available in the region where you want to create or upgrade an ApsaraDB for MongoDB instance.

This operation is applicable to replica set instances and sharded cluster instances. You can call this operation to check whether resources are sufficient for creating an instance, upgrading an instance, or upgrading a single node of a sharded cluster instance.

 Note You can call this operation a maximum of 200 times per minute.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	EvaluateResource	The operation that you want to perform. Set the value to EvaluateResource .
RegionId	String	Yes	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.
ZoneId	String	Yes	cn-hangzhou-h	The zone ID of the instance. You can call the DescribeRegions operation to query the most recent zone list.
Engine	String	No	MongoDB	The database engine of the instance. Set the value to MongoDB .
EngineVersion	String	Yes	4.0	The database engine version of the instance. Valid values: <ul style="list-style-type: none">• 5.0• 4.4• 4.2• 4.0• 3.4

Parameter	Type	Required	Example	Description
DBInstanceClass	String	No	dds.mongo.mid	<p>The instance type.</p> <p>Note This parameter is required when you check whether resources are sufficient for creating or upgrading a replica set instance. For more information about instance types, see Instance types.</p>
				<p>The node information. This parameter is required when you check whether resources are sufficient for creating or upgrading a sharded cluster instance.</p> <ul style="list-style-type: none"> To check whether resources are sufficient for creating a sharded cluster instance, specify the specifications of each node in the instance. The value must be a JSON string. Example: <pre>{ "ConfigSvrs": [{"Storage":20,"DBInstanceClass":"dds.cs.mid"}], "Mongos": [{"DBInstanceClass":"dds.mngos.standard"}, {"DBInstanceClass":"dds.mngos.standard"}], "Shards": [{"Storage":50,"DBInstanceClass":"dds.shard.standard"}, {"Storage":50,"DBInstanceClass":"dds.shard.standard"}, {"Storage":50,"DBInstanceClass":"dds.shard.standard"}] }</pre>
ShardsInfo	String	No	null	<p>Parameters in the example:</p> <ul style="list-style-type: none"> ConfigSvrs: the Configserver node. Mongos: the mongos node. Shards: the shard node.

Parameter	Type	Required	Example	Description
				<ul style="list-style-type: none"> ○ Storage: the storage space of the node. ○ DBInstanceClass: the instance type of the node. For more information, see Instance types. ● To check whether resources are sufficient for upgrading a node of a sharded cluster instance, specify only the information of the node to be upgraded. The value must be a JSON string. Example: <pre>{ "NodeId": "d- bp147c4d9ca7***", "NodeClass": "dds.shard.standard" }</pre> <p>Parameters in the example:</p> <ul style="list-style-type: none"> ○ NodeId: the ID of the node. You can call the DescribeDBInstanceAttribute operation to query the node ID. ○ NodeClass: the instance type of the node. For more information, see Instance types.
DBInstanceId	String	No	dds- bp14bf67a76d***	The ID of the instance. This parameter is required when you check whether resources are sufficient for upgrading an instance.
ReplicationFactor	String	No	10	<p>The number of nodes in the instance.</p> <ul style="list-style-type: none"> ● Valid values for standalone instances: 1 ● Valid values for replica set instances: 3, 5, and 7
ReadonlyReplicas	String	No	6	The number of read-only nodes. Valid values: 1 to 5 .

Response parameters

Parameter	Type	Example	Description
-----------	------	---------	-------------

Parameter	Type	Example	Description
DBInstanceAvailable	String	1	Indicates whether the resources are sufficient in the region. Valid values: <ul style="list-style-type: none">• 1: The resources are sufficient.• 0: The resources are insufficient.
EngineVersion	String	4.0	The database engine version of the instance.
RequestId	String	AE2DE465-E45F-481F-ABD8-37D64173****	The ID of the request.
Engine	String	MongoDB	The database engine of the instance. The returned value is MongoDB.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=EvaluateResource
&RegionId=cn-hangzhou
&ZoneId=cn-hangzhou-h
&EngineVersion=4.0
&DBInstanceClass=dds.mongo.mid
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<EvaluateResourceResponse>
    <DBInstanceAvailable>1</DBInstanceAvailable>
    <EngineVersion>4.0</EngineVersion>
    <RequestId>AE2DE465-E45F-481F-ABD8-37D64173****</RequestId>
    <Engine>MongoDB</Engine>
</EvaluateResourceResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
    "DBInstanceAvailable" : 1,
    "EngineVersion" : "4.0",
    "RequestId" : "AE2DE465-E45F-481F-ABD8-37D64173****",
    "Engine" : "MongoDB"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

10.2. DescribeAvailableResource

Queries the types of ApsaraDB for Redis instances that can be created in a specified zone.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeAvailableResource	The operation that you want to perform. Set the value to DescribeAvailableResource .
RegionId	String	Yes	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the most recent region list.
ZoneId	String	No	cn-hangzhou-h	The zone ID of the instance. You can call the DescribeRegions operation to query the most recent zone list.
InstanceChargeType	String	No	PrePaid	The billing method of the instance. Default value: PrePaid . Valid values: <ul style="list-style-type: none">• PrePaid: subscription• PostPaid: pay-as-you-go

Parameter	Type	Required	Example	Description
DbType	String	No	sharding	The database engine type of the instance. • normal : replica set instance • sharding : sharded cluster instance
ResourceGroupId	String	No	rg-acfmyiu4ekp****	The ID of the resource group.

Response parameters

Parameter	Type	Example	Description
RequestId	String	344EE51D-8850-4935-B68B-58A8F4DCE3BD	The ID of the request.
SupportedDBTypes	Array of SupportedDbType		The available database types.
SupportedDBType			
AvailableZones	Array of AvailableZone		The available zones.
AvailableZone			
SupportedEngineVersions	Array of SupportedEngineVersion		The available storage engine versions.
SupportedEngineVersion			
SupportedEngines	Array of SupportedEngine		The available storage engines.
SupportedEngine			
SupportedNodeTypes	Array of SupportedNodeType		The available instance types.
SupportedNodeType			

Parameter	Type	Example	Description
NodeType	String	3	The number of nodes in the instance.
NetworkTypes	String	VPC	The network type of the instance.
AvailableResources	Array of AvailableResource		Details about the available resources.
AvailableResource			
InstanceClassRemark	String	8 cores, 32 GB (maximum connections: 8000, maximum IOPS: 14000)	The instance specifications.
InstanceClass	String	dds.mongo.2xlarge	The instance type.
Engine	String	WiredTiger	The storage engine of the instance.
Version	String	4.0	The database engine version of the instance.
ZoneId	String	cn-hangzhou-h	The zone ID of the instance.
RegionId	String	cn-hangzhou	The region ID of the instance.
DbType	String	sharding	The database engine type of the instance.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeAvailableResource  
&RegionId=cn-hangzhou  
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeAvailableResourceResponse>
  <RequestId>344EE51D-8850-4935-B68B-58A8F4DCE3BD</RequestId>
  <SupportedDBTypes>
    <AvailableZones>
      <SupportedEngineVersions>
        <SupportedEngines>
          <SupportedNodeTypes>
            <NodeType>3</NodeType>
            <NetworkTypes>VPC</NetworkTypes>
            <AvailableResources>
              <InstanceClassRemark>8 cores, 32 GB (maximum connections: 8000, maximum IOPS: 14000)</InstanceClassRemark>
              <InstanceClass>dds.mongo.2xlarge</InstanceClass>
            </AvailableResources>
          </SupportedNodeTypes>
          <Engine>WiredTiger</Engine>
        </SupportedEngines>
        <Version>4.0</Version>
      </SupportedEngineVersions>
      <ZoneId>cn-hangzhou-h</ZoneId>
      <RegionId>cn-hangzhou</RegionId>
    </AvailableZones>
    <DbType>sharding</DbType>
  </SupportedDBTypes>
</DescribeAvailableResourceResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId": "344EE51D-8850-4935-B68B-58A8F4DCE3BD",
  "SupportedDBTypes": [
    {
      "AvailableZones": [
        {
          "SupportedEngineVersions": [
            {
              "SupportedEngines": [
                {
                  "SupportedNodeTypes": [
                    {
                      "NodeType": "3",
                      "NetworkTypes": "VPC",
                      "AvailableResources": [
                        {
                          "InstanceClassRemark": "8 cores, 32 GB (maximum connections: 8000, maximum IOPS: 14000)",
                          "InstanceClass": "dds.mongo.2xlarge"
                        }
                      ]
                    }
                  ],
                  "Engine": "WiredTiger"
                }
              ],
              "Version": "4.0"
            }
          ],
          "ZoneId": "cn-hangzhou-h",
          "RegionId": "cn-hangzhou"
        }
      ],
      "DbType": "sharding"
    }
  ]
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

10.3. ModifyResourceGroup

Migrates an ApsaraDB for MongoDB instance to a specified resource group.

Resource Management enables you to build an organizational structure for resources based on your business needs. You can use a resource directory, folders, accounts, and resource groups to hierarchically organize and manage resources. For more information, see [What is Resource Management?](#)

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
-----------	------	----------	---------	-------------

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyResourceGroup	The operation that you want to perform. Set the value to ModifyResourceGroup .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the most recent region list.
DBInstanceId	String	Yes	dds-bp1366caac83****	The ID of the instance.
ResourceGroupId	String	Yes	rg-acfmyiu4ekp****	The ID of the resource group. For more information, see View basic information of a resource group .

Response parameters

Parameter	Type	Example	Description
RequestId	String	5DD0DEC3-24A1-5268-8E0B-5B264CA1****	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=ModifyResourceGroup
&RegionId=cn-hangzhou
&DBInstanceId=dds-bp1366caac83****
&ResourceGroupId=rg-acfmyiu4ekp****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ModifyResourceGroupResponse>
  <RequestId>5DD0DEC3-24A1-5268-8E0B-5B264CA1****</RequestId>
</ModifyResourceGroupResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
    "RequestId" : "5DD0DEC3-24A1-5268-8E0B-5B264CA1****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

11. Region management

11.1. MigrateToOtherZone

You can call this operation to migrate an ApsaraDB for MongoDB instance to another zone.

This operation is applicable only to replica set instances, but not to standalone instances or sharded cluster instances.

 **Note** If you have applied for a public endpoint of the instance, you must first call the [ReleasePublicNetworkAddress](#) operation to release the public endpoint.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	MigrateToOtherZone	The operation that you want to perform. Set the value to MigrateToOtherZone .
Instanceld	String	Yes	dds-bpxxxxxxx	<p>The ID of the instance.</p> <p> Note If the network type of the instance is VPC, you must specify the Vswitch parameter .</p>
Zoneld	String	Yes	cn-hangzhou-b	<p>The ID of the destination zone to which you want to migrate the ApsaraDB for MongoDB instance.</p> <p> Note</p> <ul style="list-style-type: none">• The destination and source zones must be in one region.• You can call DescribeRegions to query the zone IDs.

Parameter	Type	Required	Example	Description
EffectiveTime	String	No	Immediately	<p>The time when the instance is migrated to the destination zone. Valid values:</p> <ul style="list-style-type: none"> • Immediately: The instance is immediately migrated to the destination zone. • MaintainTime: The instance is migrated during the maintenance period of the instance. <p>Default value: Immediately.</p>
VSwitchId	String	No	vsw-bpxxxxxxx	<p>The ID of the vSwitch in the destination zone.</p> <div style="background-color: #e1f5fe; padding: 10px;"> ? Note This parameter is valid and required only when the network type of the instance is VPC. </div>

Response parameters

Parameter	Type	Example	Description
RequestId	String	0FDDC511-7252-4A4A-ADDA-5CB1BF63873D	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=MigrateToOtherZone
&DBInstanceId=dds-bpxxxxxxx
&ZoneId=cn-hangzhou-b
&EffectiveTime=Immediately
&<Common request parameters>
```

Sample success responses

XML format

```
<RequestId>0FDDC511-7252-4A4A-ADDA-5CB1BF63873D</RequestId>
```

JSON format

```
{  
    "RequestId": "0FDDC511-7252-4A4A-ADDA-5CB1BF63873D"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

11.2. DescribeRegions

You can call this operation to view the available regions and zones of ApsaraDB for MongoDB instances.

To query available regions and zones where ApsaraDB for MongoDB instances can be created, call the [DescribeAvailableResource](#) operation.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeRegions	The operation that you want to perform. Set the value to DescribeRegions .
RegionId	String	No	cn-hangzhou	The ID of the region. If you do not specify this parameter, the IDs of all supported regions are returned.

Response parameters

Parameter	Type	Example	Description
Regions	Array of DdsRegion		Details about the regions.
DdsRegion			
RegionId	String	cn-qingdao	The ID of the region. Note For more information about region names and IDs, see Regions and zones .

Parameter	Type	Example	Description
Zones	Array of Zone		Details about the zones.
Zone			
VpcEnabled	Boolean	true	Indicates whether VPC is supported.
ZoneName	String	Hangzhou Zone H	The name of the zone.
RequestId	String	4E46C22C-D3B7-4DB8-9C76-63851BE68E20	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=DescribeRegions  
&<Common request parameters>
```

Sample success responses

XML format

```
<RequestId>4E46C22C-D3B7-4DB8-9C76-63851BE68E20</RequestId>  
<Regions>  
    <DdsRegion>  
        <RegionId>cn-qingdao</RegionId>  
    </DdsRegion>  
    <DdsRegion>  
        <Zones>  
            <Zone>  
                <ZoneName>Hangzhou Zone H</ZoneName>  
                <VpcEnabled>true</VpcEnabled>  
            </Zone>  
        </Zones>  
    </DdsRegion>  
</Regions>
```

JSON format

```
{  
    "RequestId": "4E46C22C-D3B7-4DB8-9C76-63851BE68E20",  
    "Regions": {  
        "DdsRegion": [  
            {  
                "RegionId": "cn-qingdao"  
            },  
            {  
                "Zones": {  
                    "Zone": [  
                        {  
                            "ZoneName": "Hangzhou Zone H",  
                            "VpcEnabled": "true"  
                        }  
                    ]  
                }  
            }  
        ]  
    }  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

11.3. MigrateAvailableZone

Migrates an ApsaraDB for MongoDB instance to a specified destination zone.

This operation is supported for replica set instances that run MongoDB 4.2 or earlier and sharded cluster instances. This operation is not supported for standalone instances.

 **Note** If you have applied for a public endpoint for the instance, you must call the [ReleasePublicNetworkAddress](#) operation to release the public endpoint before you call the `MigrateAvailableZone` operation.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	MigrateAvailableZone	The operation that you want to perform. Set the value to <code>MigrateAvailableZone</code> .

Parameter	Type	Required	Example	Description
DBInstanceld	String	Yes	dds-bp1ece71ff2f****	<p>The ID of the instance.</p> <div style="background-color: #e1f5fe; padding: 10px;"> ? Note If the instance is deployed in a virtual private cloud (VPC), you must specify the Vswitch parameter. </div>
Zoneld	String	Yes	cn-hangzhou-b	<p>The ID of the destination zone.</p> <div style="background-color: #e1f5fe; padding: 10px;"> ? Note <ul style="list-style-type: none"> The destination zone must be in the same region as the source zone of the instance. You can call the DescribeRegions operation to query zone IDs. </div>
Vswitch	String	No	vsw-bp1buy0h9myt5i9e7****	<p>The ID of the vSwitch in the destination zone.</p> <div style="background-color: #e1f5fe; padding: 10px;"> ? Note If the instance is deployed in a VPC, you must specify this parameter. </div>
EffectiveTime	String	No	Immediately	<p>The time when the instance is migrated to the destination zone. Valid values:</p> <ul style="list-style-type: none"> Immediately: The instance is immediately migrated to the destination zone. MaintainTime: The instance is migrated to the destination zone during the maintenance window that you specify. <p>Default value: Immediately.</p>

Response parameters

Parameter	Type	Example	Description
RequestId	String	0FDDC511-7252-4A4A-ADDA-5CB1BF63****	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=MigrateAvailableZone  
&DBInstanceId=dds-bp1ece71ff2f****  
&ZoneId=cn-hangzhou-b  
&EffectiveTime=Immediately  
&<Common request parameters>
```

Sample success responses

XML format

```
<MigrateAvailableZoneResponse>  
    <RequestId>0FDDC511-7252-4A4A-ADDA-5CB1BF63****</RequestId>  
</MigrateAvailableZoneResponse>
```

JSON format

```
{  
    "RequestId": "0FDDC511-7252-4A4A-ADDA-5CB1BF63****"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

12. Connection Management

12.1. AllocatePublicNetworkAddress

Assigns a public endpoint to an ApsaraDB for MongoDB instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	No	AllocatePublicNet workAddress	The operation that you want to perform. Set the value to AllocatePublicNetworkAddress .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.
DBInstanceId	String	Yes	dds- bp11483712c1*** *	The ID of the instance. Note If you set this parameter to the ID of a sharded cluster instance, you must also specify the NodeId parameter.
NodeId	String	No	s- bp18e6d84ae3*** *	The ID of the mongos, shard, or Configserver node in the sharded cluster instance. You can call the DescribeDBInstanceAttribute operation to view the ID of the mongos, shard, or Configserver node. Note This parameter is required only when you specify the DBInstanceId parameter to the ID of a sharded cluster instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	8AA45036-497F-52E7-B951-F9C7B239****	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=AllocatePublicNetworkAddress  
&DBInstanceId=dds-bp11483712c1****  
&NodeId=s-bp18e6d84ae3****  
&<Common request parameters>
```

Sample responses

XML format

```
HTTP/1.1 200 OK  
Content-Type:application/xml  
<AllocatePublicNetworkAddressResponse>  
    <RequestId>8AA45036-497F-52E7-B951-F9C7B239****</RequestId>  
</AllocatePublicNetworkAddressResponse>
```

JSON format

```
HTTP/1.1 200 OK  
Content-Type:application/json  
{  
    "RequestId" : "8AA45036-497F-52E7-B951-F9C7B239****"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

12.2. ReleasePublicNetworkAddress

You can call this operation to release the public endpoint of an ApsaraDB for MongoDB instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
-----------	------	----------	---------	-------------

Parameter	Type	Required	Example	Description
Action	String	Yes	ReleasePublicNet workAddress	The operation that you want to perform. Set the value to ReleasePublicNetworkAddress .
DBInstanceld	String	Yes	dds-bpxxxxxxx	<p>The ID of the instance.</p> <div style="background-color: #e1f5fe; padding: 10px;"> ? Note If you set this parameter to the ID of a sharded cluster instance, you must also specify the NodeId parameter. </div>
NodeId	String	No	s-bpxxxxxxx	<p>A sharded cluster instance consists of three components: mongos, shard, and Configserver.</p> <div style="background-color: #e1f5fe; padding: 10px;"> ? Note <ul style="list-style-type: none"> This parameter is valid only if you set the DBInstanceld parameter to the ID of a sharded cluster instance. You can call the DescribeDBInstancAttribute operation to query the ID of the mongos, shard, or Configserver node. </div>
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	1D6AFE36-1AF5-4DE4-A954-672159D4CC69	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=ReleasePublicNetworkAddress  
&DBInstanceId=dds-bpxxxxxxx  
&s-bpxxxxxxx  
&<Common request parameters>
```

Sample success responses

XML format

```
<ReleasePublicNetworkAddressResponse>  
    <RequestId>B6D17591-B48B-4D31-9CD6-9B9796B2270A</RequestId>  
</ReleasePublicNetworkAddressResponse>
```

JSON format

```
{  
    "RequestId": "1D6AFE36-1AF5-4DE4-A954-672159D4CC69"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

12.3. ModifyInstanceVpcAuthMode

You can call this operation to enable or disable password-free access from the same VPC as an ApsaraDB for MongoDB instance.

Before you call this operation, make sure that the following requirements are met:

- A replica set or sharded cluster instance is used.
- The database version of the instance is 4.0 (with the minor version of mongodb_20190408_3.0.11 or later) or 4.2. You can call the [DescribeDBInstanceAttribute](#) operation to view the database engine version of the instance. If necessary, you can call the [UpgradeDBInstanceEngineVersion](#) operation to upgrade the database engine.
- The instance is in a VPC. If the network type is Classic Network, you can call the [ModifyDBInstanceNetworkType](#) operation to switch the network type to VPC.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyInstanceVpcAuthMode	The operation that you want to perform. Set the value to ModifyInstanceVpcAuthMode .

Parameter	Type	Required	Example	Description
DBInstanceId	String	Yes	dds-bpxxxxxxx	The ID of the instance.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of the instance.
NodeId	String	No	s-bpxxxxxxx	The ID of the mongos node in the specified sharded cluster instance. Note This parameter can be used only when the instance type is sharded cluster.
VpcAuthMode	String	No	Open	Specifies whether to enable authentication to allow access within a VPC. Valid values: <ul style="list-style-type: none">• Open: enables password-free access.• Close: disables password-free access.

Response parameters

Parameter	Type	Example	Description
RequestId	String	BA51E9D9-B14A-4542-B6E6-7DE00BECCB8C	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=ModifyInstanceVpcAuthMode
&DBInstanceId=dds-bpxxxxxxx
&VpcAuthMode=Open
&<Common request parameters>
```

Sample success responses

XML format

```
<ModifyInstanceVpcAuthModeResponse>
  <RequestId>BA51E9D9-B14A-4542-B6E6-7DE00BECCB8C</RequestId>
</ModifyInstanceVpcAuthModeResponse>
```

JSON format

```
{  
    "RequestId": "BA51E9D9-B14A-4542-B6E6-7DE00BECCB8C"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

12.4.

DescribeShardingNetworkAddress

You can call this operation to query the connection information of sharded cluster instances of ApsaraDB for MongoDB.

This operation supports sharded cluster instances only.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeShardingNetworkAddress	The operation that you want to perform. Set the value to DescribeShardingNetworkAddress .
DBInstanceId	String	Yes	dds-bpxxxxxxx	The ID of an instance.
NodeId	String	No	d-bpxxxxxxx	A sharded cluster instance consists of three components: mongos, shard, and Configserver. Note You can call the DescribeDBInstanceAttribute operation to query the ID of the mongos, shard, or Configserver node.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
CompatibleConnections	Array		An array that consists of the endpoints of DynamoDB instances.
CompatibleConnection			
ExpiredTime	String	2591963	The remaining duration of the classic network address. Unit: seconds.
IPAddress	String	10.140.xxx.xx	The IP address of the instance.
NetworkAddresses	String	dds-bpxxxxxxxxxxxxxx.ongodb.rds.aliyuncs.com	The endpoint of the instance.
NetworkType	String	VPC	The network type. Valid values: <ul style="list-style-type: none">• VPC• Classic• Public: public endpoint
Port	String	3717	The port number.
VPCId	String	vpc-bpxxxxxxx	The ID of the VPC. <div style="background-color: #e0f2ff; padding: 5px; border-radius: 5px;">? Note This parameter is returned when the network type is VPC.</div>
VswitchId	String	vsw-bpxxxxxxx	The vSwitch ID of the VPC. <div style="background-color: #e0f2ff; padding: 5px; border-radius: 5px;">? Note This parameter is returned when the network type is VPC.</div>
NetworkAddresses	Array		An array that consists of the endpoints of ApsaraDB for MongoDB instances.
NetworkAddresses			

Parameter	Type	Example	Description
ExpiredTime	String	2591963	The remaining duration of the classic network address. Unit: seconds.
IPAddress	String	10.140.xxx.xx	The IP address of the instance.
NetworkAddresses	String	s-bpxxxxxxx.mongod.b.rds.aliyuncs.com	The endpoint of the instance.
NetworkType	String	VPC	The network type. Valid values: <ul style="list-style-type: none">• VPC• Classic• Public: public endpoint
NodeId	String	s-bpxxxxxxx	The ID of the mongos.
NodeType	String	mongos	The type of the node. Valid values: <ul style="list-style-type: none">• mongos• shard• configserver
Port	String	3717	The port number.
Role	String	Primary	The role of the node. Valid values: <ul style="list-style-type: none">• Primary• Secondary
VPCId	String	vpc-bpxxxxxxx	The ID of the VPC. <div style="background-color: #e1f5fe; padding: 5px; border-radius: 5px;">? Note This parameter is returned when the network type is VPC.</div>
VswitchId	String	vsw-bpxxxxxxx	The vSwitch ID of the VPC. <div style="background-color: #e1f5fe; padding: 5px; border-radius: 5px;">? Note This parameter is returned when the network type is VPC.</div>

Parameter	Type	Example	Description
RequestId	String	18D8AAFD-6BEB-420F-8164-810CB0C0AA39	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=DescribeShardingNetworkAddress  
&DBInstanceId=dds-bpxxxxxxxx  
&<Common request parameters>
```

Sample success responses

XML format

```
<NetworkAddresses>  
  <NetworkAddress>  
    <NetworkType>Public</NetworkType>  
    <NodeId>s-bpxxxxxxxx</NodeId>  
    <Port>3717</Port>  
    <VPCId/>  
    <IPAddress>47.xx.xx.xxx</IPAddress>  
    <NodeType>mongos</NodeType>  
    <Role>Primary</Role>  
    <NetworkAddress>s-bpxxxxxxx-pub.mongodb.rds.aliyuncs.com</NetworkAddress>  
  </NetworkAddress>  
  <NetworkAddress>  
    <NetworkType>VPC</NetworkType>  
    <NodeId>s-bpxxxxxxxx</NodeId>  
    <Port>3717</Port>  
    <VPCId>vpc-bpxxxxxxxx</VPCId>  
    <IPAddress>192.168.xx.xxx</IPAddress>  
    <NodeType>mongos</NodeType>  
    <Role>Primary</Role>  
    <VswitchId>vsw-bpxxxxxxxx</VswitchId>  
    <NetworkAddress>s-bpxxxxxxx.mongodb.rds.aliyuncs.com</NetworkAddress>  
  </NetworkAddress>  
</NetworkAddresses>  
<RequestId>3F5DD5CD-0B93-46FF-96DD-F938B13CDE8B</RequestId>
```

JSON format

```
{  
    "NetworkAddresses": {  
        "NetworkAddress": [  
            {  
                "NetworkType": "Public",  
                "NodeId": "s-bpxxxxxxxx",  
                "Port": "3717",  
                "VPCId": "",  
                "IPAddress": "47.xx.xx.xxxx",  
                "NodeType": "mongos",  
                "Role": "Primary",  
                "NetworkAddress": "s-bpxxxxxxxx-pub.mongodb.rds.aliyuncs.com"  
            },  
            {  
                "NetworkType": "VPC",  
                "NodeId": "s-bpxxxxxxxx",  
                "Port": "3717",  
                "VPCId": "vpc-bpxxxxxxxx",  
                "IPAddress": "192.168.xx.xxx",  
                "NodeType": "mongos",  
                "Role": "Primary",  
                "VswitchId": "vsw-bpxxxxxxxx",  
                "NetworkAddress": "s-bpxxxxxxxx.mongodb.rds.aliyuncs.com"  
            }  
        ]  
    },  
    "RequestId": "3F5DD5CD-0B93-46FF-96DD-F938B13CDE8B"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

12.5. ModifyDBInstanceNetworkType

Changes the network type of an ApsaraDB for MongoDB instance.

This operation applies to replica set instances and sharded cluster instances, but not standalone instances.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
-----------	------	----------	---------	-------------

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyDBInstanceNetworkType	The operation that you want to perform. Set the value to ModifyDBInstanceNetworkType .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of the instance.
DBInstanceId	String	Yes	dds-bp11483712c1***	The ID of the instance.
NetworkType	String	Yes	VPC	The network type to switch to. Valid values: • VPC • Classic
VpcId	String	No	vpc-bp1n3i15v90el48nx***	The ID of the virtual private cloud (VPC). Note This parameter is required when the NetworkType parameter is set to VPC .
VSwitchId	String	No	vsw-bp1vj604nj5a9zz74***	The ID of the vSwitch in the VPC. Note This parameter is required when the NetworkType parameter is set to VPC .

Parameter	Type	Required	Example	Description
RetainClassic	String	No	False	<p>Specifies whether to retain the original classic network address when you change the network type to VPC. Valid values:</p> <ul style="list-style-type: none"> • True: retains the original classic network address. • False: does not retain the original classic network address. <div style="background-color: #e1f5fe; padding: 10px;"> <p>Note</p> <ul style="list-style-type: none"> • This parameter is required when the NetworkType parameter is set to VPC. • If you set this parameter to True, you must also specify the ClassicExpiredDays parameter. </div>
ClassicExpiredDays	Integer	No	30	<p>The retention period of the original classic network address when you change the network type to VPC. Valid values: 14, 30, 60, and 120. Unit: days.</p> <div style="background-color: #e1f5fe; padding: 10px;"> <p>Note</p> <ul style="list-style-type: none"> • This parameter is required when the NetworkType parameter is set to VPC. • This parameter is required when the RetainClassic parameter is set to True. </div>

Response parameters

Parameter	Type	Example	Description
RequestId	String	D0E605FD-6ECE-5FBE-84A4-99AAB1B8****	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=ModifyDBInstanceNetworkType  
&DBInstanceId=dds-bp11483712c1****  
&NetworkType=VPC  
&VpcId=vpc-bp1n3i15v90e148nx****  
&VSwitchId=vsw-bp1vj604nj5a9zz74****  
&RetainClassic=Flase  
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK  
Content-Type:application/xml  
<ModifyDBInstanceNetworkTypeResponse>  
    <RequestId>D0E605FD-6ECE-5FBE-84A4-99AAB1B8****</RequestId>  
</ModifyDBInstanceNetworkTypeResponse>
```

JSON format

```
HTTP/1.1 200 OK  
Content-Type:application/json  
{  
    "RequestId" : "D0E605FD-6ECE-5FBE-84A4-99AAB1B8****"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

12.6.

ModifyDBConnectionString

You can call this operation to modify the connection string of a MongoDB instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyDBConnectionString	The operation that you want to perform. Set the value to ModifyDBConnectionString .

Parameter	Type	Required	Example	Description
CurrentConnectionString	String	Yes	s-bpxxxxxxxx.mongodb.rds.aliyuncs.com	The current connection string, which is to be modified.
DBInstanceId	String	Yes	dds-bpxxxxxxxx	<p>The ID of the instance.</p> <div style="background-color: #e1f5fe; padding: 10px;"> ? Note If you set this parameter to the ID of a sharded cluster instance, you must also specify the NodeId parameter. </div>
NewConnectionString	String	Yes	aliyuntest111	<p>The new connection string. It must be 8 to 64 characters in length and can contain letters and digits. It must start with a lowercase letter.</p> <div style="background-color: #e1f5fe; padding: 10px;"> ? Note You need only to specify the prefix of the connection string. The content other than the prefix cannot be modified. </div>
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the most recent region list.
NodeId	String	No	s-bpxxxxxxxx	<p>The ID of the mongos in the specified sharded cluster instance. Only one mongos ID can be specified in each call.</p> <div style="background-color: #e1f5fe; padding: 10px;"> ? Note This parameter is valid only if you set the DBInstanceId parameter to the ID of a sharded cluster instance. </div>

Response parameters

Parameter	Type	Example	Description
RequestId	String	FF36A84C-0694-42D0-861D-C383E8E4FAAF	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=ModifyDBConnectionString  
&CurrentConnectionString=s-bpxxxxxxx.mongodb.rds.aliyuncs.com  
&NewConnectionString=aliyuntetest111  
&DBInstanceId=dds-bpxxxxxxxx  
&<Common request parameters>
```

Sample success responses

XML format

```
<ModifyDBConnectionStringResponse>  
  <RequestId>FF36A84C-0694-42D0-861D-C383E8E4FAAF</RequestId>  
</ModifyDBConnectionStringResponse>
```

JSON format

```
{  
  "RequestId": "FF36A84C-0694-42D0-861D-C383E8E4FAAF"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

12.7.

ReleaseNodePrivateNetworkAddress

Releases the internal endpoint of the shard or Configserver node of a sharded cluster instance.

- This operation can be used to release the internal endpoint of a shard or Configserver node in a sharded cluster instance. For more information, see [Release the endpoint of a shard or Configserver node](#).
- To release the public endpoint of a shard or Configserver node in a sharded cluster instance, you can call the [ReleasePublicNetworkAddress](#) operation.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
-----------	------	----------	---------	-------------

Parameter	Type	Required	Example	Description
Action	String	Yes	ReleaseNodePrivateNetworkAddresses	The operation that you want to perform. Set the value to ReleaseNodePrivateNetworkAddresses .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the most recent region list.
DBInstanceId	String	Yes	dds-bp1a7009eb24***	The ID of the sharded cluster instance.
NodeId	String	Yes	d-bp128a003436***	The ID of the shard or Configserver node. Note You can call the DescribeDBInstanceAttribute operation to query the ID of the shard or Configserver node.
NetworkType	String	No	VPC	The network type of the internal endpoint. Valid values: <ul style="list-style-type: none">• VPC• Classic Note You can call the DescribeShardingNetworkAddress operation to query the network type of the internal endpoint.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0FDDC511-7252-4A4A-ADDA-5CB1BF63873D	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=ReleaseNodePrivateNetworkAddress  
&DBInstanceId=dds-bp1a7009eb24****  
&NodeId=d-bp128a003436****  
&NetworkType=VPC  
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK  
Content-Type:application/xml  
<ReleaseNodePrivateNetworkAddressResponse>  
  <RequestId>EFD65226-08CC-4C4D-B6A4-CB3C382F67B0</RequestId>  
</ReleaseNodePrivateNetworkAddressResponse>
```

JSON format

```
HTTP/1.1 200 OK  
Content-Type:application/json  
{  
  "RequestId" : "0FDDC511-7252-4A4A-ADDA-5CB1BF63873D"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

12.8.

AllocateNodePrivateNetworkAddress

Applies for an internal endpoint for a shard or Configserver node of an ApsaraDB for MongoDB sharded cluster instance.

This operation applies only to sharded cluster instances. For more information, see [Apply for an endpoint for a shard or Configserver node](#).

 **Note** The requested endpoint can only be accessed over the internal network. If you want to access the endpoint over the Internet, call the [AllocatePublicNetworkAddress](#) operation to apply for a public endpoint.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	AllocateNodePrivateNetworkAddress	The operation that you want to perform. Set the value to AllocateNodePrivateNetworkAddress .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the most recent region list.
ZoneId	String	No	cn-hangzhou-b	The zone ID of the instance. <div style="background-color: #e1f5fe; padding: 10px; border-radius: 10px;">Note You can call the DescribeDBInstanceAttribute operation to query the zone ID of the instance.</div>
DBInstanceId	String	Yes	dds-bp1fa5efaa93***	The ID of the sharded cluster instance.
NodeId	String	Yes	d-bp124beeb0ac***	The ID of the shard or Configserver node. <div style="background-color: #e1f5fe; padding: 10px; border-radius: 10px;">Note You can call the DescribeDBInstanceAttribute operation to query the ID of the shard or Configserver node.</div>

Parameter	Type	Required	Example	Description
AccountName	String	No	shardcsaccount	<p>The name of the account.</p> <div style="background-color: #e1f5fe; padding: 10px;"> ? Note <ul style="list-style-type: none"> • The name must be 4 to 16 characters in length and can contain lowercase letters, digits, and underscores (_). It must start with a lowercase letter. • You need to set the account name and password only when you apply for an endpoint for a shard or Configserver node for the first time. In this case, the account name and password are used for all shard and Configserver nodes. • The permissions of this account are fixed to read-only. </div>
AccountPassword	String	No	Test123456	<p>The password of the account.</p> <ul style="list-style-type: none"> • The password must contain at least three of the following character types: uppercase letters, lowercase letters, digits, and special characters. Special characters include !#\$%^&* ()_+=- • The password must be 8 to 32 characters in length.

Response parameters

Parameter	Type	Example	Description
RequestId	String	60EBD77-227C-5B39-86EA-D89163C5****	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=AllocateNodePrivateNetworkAddress  
&DBInstanceId=dds-bp1fa5efaa93****  
&NodeId=d-bp124beeb0ac****  
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK  
Content-Type:application/xml  
<AllocateNodePrivateNetworkAddressResponse>  
    <RequestId>60EEBD77-227C-5B39-86EA-D89163C5****</RequestId>  
</AllocateNodePrivateNetworkAddressResponse>
```

JSON format

```
HTTP/1.1 200 OK  
Content-Type:application/json  
{  
    "RequestId" : "60EEBD77-227C-5B39-86EA-D89163C5****"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

13.Tag management

13.1. TagResources

You can call this operation to bind tags to one or more ApsaraDB for MongoDB instances.

You can create multiple tags and bind them to multiple instances. This allows you to classify and filter instances by tag.

- A tag consists of a key and a value. Each key must be unique in a region for an Alibaba Cloud account. Different keys can have the same value.
- If the tag you specify does not exist, this tag is automatically created and bound to the specified instance.
- If a tag that has the same key is already bound to the instance, the new tag overwrites the existing tag.
- You can bind up to 20 tags to each instance.
- You can bind tags to up to 50 instances each time you call the operation.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	TagResources	The operation that you want to perform. Set the value to TagResources .
RegionId	String	Yes	cn-hangzhou	The region ID of the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of the instance.

Parameter	Type	Required	Example	Description
ResourceId.N	RepeatList	Yes	dds-bpxxxxxxxx	<p>The ID of instance N.</p> <p>Note</p> <p>N specifies the serial number of the instance. Examples:</p> <ul style="list-style-type: none"> • ResourceId.1 specifies the ID of the first instance. • ResourceId.2 specifies the ID of the second instance.
ResourceType	String	Yes	INSTANCE	<p>The resource type. Set the value to INSTANCE.</p>
Tag.N.Key	String	Yes	Development team	<p>The key of tag N. Valid values of N: 1 to 20.</p> <ul style="list-style-type: none"> • The key cannot start with <code>aliyun</code>, <code>acs:</code>, <code>http://</code>, or <code>https://</code>. • It can be up to 64 characters in length. • The key cannot be an empty string. <p>Note</p> <p>N specifies the serial number of the tag. Examples:</p> <ul style="list-style-type: none"> • Tag.1.Key specifies the key of the first tag. • Tag.2.Key specifies the key of the second tag.

Parameter	Type	Required	Example	Description
Tag.N.Value	String	Yes	Environment 4.0	<p>The value of tag N. Valid values of N: 1 to 20.</p> <ul style="list-style-type: none"> The value cannot start with aliyu n , acs: , http:// , or https:// . It can be up to 128 characters in length. The value can be an empty string. <div style="background-color: #e1f5fe; padding: 10px;"> ? Note N specifies the serial number of the tag. Examples: <ul style="list-style-type: none"> Tag.1.Value specifies the value of the first tag. Tag.2.Value specifies the value of the second tag. </div>
ResourceGroupId	String	No	sg-bpxxxxxxxxxxxxx xxxx	The ID of the resource group.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0FDDC511-7252-4A4A-ADDA-5CB1BF63873D	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=TagResources
&RegionId=cn-hangzhou
&ResourceType=INSTANCE
&ResourceId.1=dds-bpxxxxxxxx
&ResourceId.2=dds-bpxxxxxxxx
&Tag.1.Key=Development team
&Tag1.Value=Environment 4.0
&Tag.2.Key=Service team
&Tag2.Value=Log Service
&<Common request parameters>
```

Sample success responses

XML format

```
<RequestId>0FDDC511-7252-4A4A-ADDA-5CB1BF63873D</RequestId>
```

JSON format

```
{  
    "RequestId": "0FDDC511-7252-4A4A-ADDA-5CB1BF63873D"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

13.2. ListTagResources

Queries the relationship between ApsaraDB for MongoDB instances and tags.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListTagResources	The operation that you want to perform. Set the value to ListTagResources .
RegionId	String	Yes	cn-hangzhou	The region ID of the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of the instance.
ResourceType	String	Yes	INSTANCE	The resource type. Set the value to INSTANCE .

Parameter	Type	Required	Example	Description
NextToken	String	No	212db86****	<p>The token used to start the next query to retrieve more results.</p> <p>Note This parameter is not required in the first query. If not all results are returned in one query, you can pass in the NextToken value returned in the previous query to perform the query again.</p>
ResourceId.N	String	No	Development team	<p>The ID of the instance.</p> <p>Note</p> <ul style="list-style-type: none"> N specifies the serial number of the instance. For example, ResourceId.1 specifies the ID of the first instance and ResourceId.2 specifies the ID of the second instance. You must specify this parameter or the Tag.N.Key parameter.
Tag.N.Key	String	No	Development team	<p>The key of tag N.</p> <p>Note</p> <ul style="list-style-type: none"> N specifies the serial number of the tag. For example, Tag.1.Key specifies the key of the first tag and Tag.2.Key specifies the key of the second tag. You must specify this parameter or the ResourceId.N parameter.

Parameter	Type	Required	Example	Description
Tag.N.Value	String	No	Environment 4.0	<p>The value of tag N.</p> <p>Note N specifies the serial number of the tag. For example, Tag.1.Value specifies the value of the first tag and Tag.2.Value specifies the value of the second tag.</p>

Response parameters

Parameter	Type	Example	Description
NextToken	String	212db86****	<p>The token used to start the next query.</p> <p>Note If not all results are returned in the first query, this parameter is returned. You can pass in the returned value of this parameter in the next query.</p>
RequestId	String	96017AF2-9AB1-4BC9-88D2-7966B3CD****	The ID of the request.
TagResources	Array of TagResource		Details about the tags of the instance.
TagResource			
ResourceType	String	ALIYUN::DDS::INSTANCE	The resource type. The return value is fixed to ALIYUN: KVSTORE: INSTANCE, indicating an ApsaraDB for MongoDB instance.
TagValue	String	Environment 4.0	The value of the tag.
ResourceId	String	dds-bp17e7a04960****	The ID of the resource. It is the ID of the ApsaraDB for MongoDB instance.
TagKey	String	Development team	The key of the tag.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=TagResources  
&RegionId=cn-hangzhou  
&ResourceType=INSTANCE  
&Tag.1.Key=Development team  
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK  
Content-Type:application/xml  
<ListTagResourcesResponse>  
  <TagResources>  
    <TagResource>  
      <ResourceType>ALIYUN::DDS::INSTANCE</ResourceType>  
      <TagValue>Environment 4.0</TagValue>  
      <ResourceId>dds-bp17e7a04960****</ResourceId>  
      <TagKey>Development team</TagKey>  
    </TagResource>  
    <TagResource>  
      <ResourceType>ALIYUN::DDS::INSTANCE</ResourceType>  
      <TagValue>Environment 3.4</TagValue>  
      <ResourceId>dds-bp17e7a04960****</ResourceId>  
      <TagKey>Development team</TagKey>  
    </TagResource>  
  </TagResources>  
  <RequestId>96017AF2-9AB1-4BC9-88D2-7966B3CD****</RequestId>  
</ListTagResourcesResponse>
```

JSON format

```
HTTP/1.1 200 OK  
Content-Type:application/json  
{  
  "TagResources" : {  
    "TagResource" : [ {  
        "ResourceType" : "ALIYUN::DDS::INSTANCE",  
        "TagValue": "Environment 4.0",  
        "ResourceId" : "dds-bp17e7a04960****",  
        "TagKey": "Development team",  
      }, {  
        "ResourceType" : "ALIYUN::DDS::INSTANCE",  
        "TagValue": "Environment 3.4",  
        "ResourceId" : "dds-bp17e7a04960****",  
        "TagKey": "Development team",  
      } ]  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

13.3. DescribeTags

You can call this operation to query all tags in a specified region.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeTags	The operation that you want to perform. Set the value to DescribeTags .
RegionId	String	Yes	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.
ResourceType	String	No	INSTANCE	The resource type. Set the value to INSTANCE .
NextToken	String	No	212db86xxxxxxxx	<p>The start token for the next query, which is used to return more results. Default value: 20.</p> <div style="background-color: #e0f2ff; padding: 10px;"> ? Note This parameter is not required in the first query. If not all results are returned in one query, you can pass in the NextToken value returned in the previous query to perform query again. </div>
ResourceGroupId	String	No	sg-bpxxxxxxxxxxxxxxx xxxx	The ID of the resource group.

Response parameters

Parameter	Type	Example	Description
-----------	------	---------	-------------

Parameter	Type	Example	Description
NextToken	String	212db86xxxxxxxx	The token that was returned for the next query. ? Note If not all results are returned in the first query, this parameter is returned. You can pass in the returned value of this parameter in the next query.
Tags	Array of Tag		Details about the tags.
TagKey	String	Development team	The key of the tag.
TagValues	List	Environment 4.0	The value of the tag.
RequestId	String	EEDBE38F-5CF5-4316-AAC2-35817BA60D68	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=DescribeTags
&RegionId=cn-hangzhou
&<Common request parameters>
```

Sample success responses

XML format

```
<Tags>
  <TagKey>Development team</TagKey>
  <TagValues>Environment 3.4</TagValues>
  <TagValues>Environment 4.0</TagValues>
</Tags>
<Tags>
  <TagKey>Service team</TagKey>
  <TagValues>Log Service</TagValues>
</Tags>
<RequestId>EEDBE38F-5CF5-4316-AAC2-35817BA60D68</RequestId>
```

JSON format

```
{  
    "Tags": [  
        {  
            "TagKey": "Development team",  
            "TagValues": [  
                "Environment 3.4",  
                "Environment 4.0"  
            ]  
        },  
        {  
            "TagKey": "Service team",  
            "TagValues": [  
                "Log Service"  
            ]  
        }  
    ],  
    "RequestId": "EEDBE38F-5CF5-4316-AAC2-35817BA60D68"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

13.4. UntagResources

You can call this operation to unbind tags from an instance. If an unbound tag is not bound to another instance, the tag is deleted.

ⓘ Note

- You can unbind up to 20 tags at a time.
- When a tag is unbound from all instances, the tag is automatically deleted.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UntagResources	The operation that you want to perform. Set the value to UntagResources .

Parameter	Type	Required	Example	Description
RegionId	String	Yes	cn-hangzhou	The region ID of the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of the instance.
ResourceId.N	RepeatList	Yes	dds-bpxxxxxxx	<p>The ID of instance N.</p> <p>Note N specifies the serial number of the instance. For example, ResourceId.1 specifies the ID of the first instance and ResourceId.2 specifies the ID of the second instance.</p>
ResourceType	String	Yes	INSTANCE	The resource type. Set the value to INSTANCE .
TagKey.N	RepeatList	No	Development team	<p>The key of tag N.</p> <p>Note N specifies the serial number of the tag. For example, TagKey.1 specifies the key of the first tag and TagKey.2 specifies the key of the second tag.</p>
All	Boolean	No	false	<p>Specifies whether to unbind all tags from the instance. Valid values:</p> <ul style="list-style-type: none"> • true • false <p>Note</p> <ul style="list-style-type: none"> • Default value: false. • If you specify both this parameter and TagKey.N, this parameter is invalid.
ResourceGroupId	String	No	sg-bpxxxxxxxxxxxxxx xxxx	The ID of the resource group.

Response parameters

Parameter	Type	Example	Description
RequestId	String	FA3A7F36-DB57-4281-8935-4B9DF61554EB	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=UntagResources  
&RegionId=cn-hangzhou  
&ResourceType=INSTANCE  
&ResourceId.1=dds-bpxxxxxxxx  
&TagKey.1=Development team  
&<Common request parameters>
```

Sample success responses

XML format

```
<RequestId>FA3A7F36-DB57-4281-8935-4B9DF61554EB</RequestId>
```

JSON format

```
{  
    "RequestId": "FA3A7F36-DB57-4281-8935-4B9DF61554EB"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

14.Account management

14.1. DescribeAccounts

You can call this operation to query the database accounts of an ApsaraDB for MongoDB instance.

 Note This operation can query only the information of the root account.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeAccounts	The operation that you want to perform. Set the value to DescribeAccounts .
DBInstanceId	String	Yes	dds-bpxxxxxxx	The ID of the instance.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID.
AccountName	String	No	root	The name of the account. Set the value to root .

Response parameters

Parameter	Type	Example	Description
Accounts	Array		Details about the accounts.
Account			
AccountDescription	String	Administrator	The description of the account.
AccountName	String	root	The name of the account.

Parameter	Type	Example	Description
AccountStatus	String	Available	<p>The status of the account.</p> <ul style="list-style-type: none"> Unavailable Available
CharacterType	String	mongos	<p>The role of the account. Valid values:</p> <ul style="list-style-type: none"> db: shard cs: Configserver mongos: mongos logic: sharded cluster instance normal: replica set instance
DBInstanceId	String	dds-bpxxxxxxxx	The name of the instance to which the account belongs.
RequestId	String	B562A65B-39AB-4EE8-8635-5A222054FB35	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=DescribeAccounts
&DBInstanceId=dds-bpxxxxxxxx
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeAccountsResponse>
  <Accounts>
    <Account>
      <AccountStatus>Available</AccountStatus>
      <AccountDescription>Administrator</AccountDescription>
      <DBInstanceId>dds-bpxxxxxxxx</DBInstanceId>
      <AccountName>root</AccountName>
    </Account>
  </Accounts>
  <RequestId>A806B0FC-CFCC-48D8-8AEC-34C892806B40</RequestId>
</DescribeAccountsResponse>
```

JSON format

```
{  
    "Accounts": {  
        "Account": [  
            {  
                "AccountStatus": "Available",  
                "AccountDescription": "Administrator",  
                "DBInstanceId": "dds-bpxxxxxxxx",  
                "AccountName": "root"  
            }  
        ]  
    },  
    "RequestId": "A806B0FC-CFCC-48D8-8AEC-34C892806B40"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

14.2. ResetAccountPassword

You can call this operation to reset the password of the root account of an ApsaraDB for MongoDB instance.

 **Note** This operation can reset only the password of the root account of an instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ResetAccountPassword	The operation that you want to perform. Set the value to ResetAccountPassword .
AccountName	String	Yes	root	The account for which you want to reset the password. Set the value to root .

Parameter	Type	Required	Example	Description
AccountPassword	String	Yes	Ali! 123456	<p>The new password.</p> <ul style="list-style-type: none"> The password must contain at least three of the following character types: uppercase letters, lowercase letters, digits, and special characters. Special characters include ! # \$ % ^ & * () _ + - = The password must be 8 to 32 characters in length.
DBInstanceId	String	Yes	dds-bpxxxxxxxx	The ID of the instance.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	06CBD06E-ABC9-4121-AB93-3C3820B3E7E6	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=ResetAccountPassword
&AccountName=root
&AccountPassword=Ali! 123456
&DBInstanceId=dds-bpxxxxxxxx
&<Common request parameters>
```

Sample success responses

XML format

```
<ResetAccountPasswordResponse>
    <RequestId>06CBD06E-ABC9-4121-AB93-3C3820B3E7E6</RequestId>
</ResetAccountPasswordResponse>
```

JSON format

```
{  
    "RequestId": "06CBD06E-ABC9-4121-AB93-3C3820B3E7E6"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

14.3. ModifyAccountDescription

You can call this operation to modify the description of the root account of an ApsaraDB for MongoDB instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyAccountDescription	The operation that you want to perform. Set the value to ModifyAccountDescription .
AccountDescription	String	Yes	superadmin	<p>The description of the account.</p> <ul style="list-style-type: none">The description must start with a letter, and cannot start with http:// or https://.It must be 2 to 256 characters in length, and can contain letters, digits, underscores (_), and hyphens (-).
AccountName	String	Yes	root	The name of the account for which you want to modify the description.
DBInstanceId	String	Yes	dds-bpxxxxxxxx	The ID of the instance.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	59DE9FC2-7B40-45CF-9011-7327A8A771A2	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=ModifyAccountDescription
&AccountName=root
&AccountDescription=superadmin
&DBInstanceId=dds-bpxxxxxxxx
&<Common request parameters>
```

Sample success responses

XML format

```
<RestoreDBInstanceResponse>
    <RequestId>59DE9FC2-7B40-45CF-9011-7327A8A771A2</RequestId>
</RestoreDBInstanceResponse>
```

JSON format

```
{
    "RequestId": "59DE9FC2-7B40-45CF-9011-7327A8A771A2"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

15. IP Whitelist and Security Groups

15.1.

DescribeSecurityGroupConfiguration

You can call this operation to query ECS security groups that are bound to an ApsaraDB for MongoDB instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeSecurityGroupConfiguration	The operation that you want to perform. Set the value to DescribeSecurityGroupConfiguration .
DBInstanceId	String	Yes	dds-bpxxxxxxxx	The ID of the instance.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
Items	Array		Details about the ECS security groups.
RdsEcsSecurityGroupRel			
NetType	String	vpc	The network type of the ECS security group. Valid values: <ul style="list-style-type: none">• vpc• classic

Parameter	Type	Example	Description
RegionId	String	cn-hangzhou	The region ID of the ECS security group.
SecurityGroupId	String	sg-bpxxxxxxxx	The ID of the ECS security group.
RequestId	String	3C4A2494-85C4-45C5-93CF-548DB3375193	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=DescribeSecurityGroupConfiguration  
&DBInstanceId=dds-bpxxxxxxxx  
&<Common request parameters>
```

Sample success responses

XML format

```
<Items>  
  <RdsEcsSecurityGroupRel>  
    <SecurityGroupId>sg-bpxxxxxxxx</SecurityGroupId>  
    <RegionId>cn-hangzhou</RegionId>  
    <NetType>classic</NetType>  
  </RdsEcsSecurityGroupRel>  
</Items>  
<RequestId>D18F5B88-ACA6-470E-9493-384412EDD902</RequestId>
```

JSON format

```
{  
  "Items": {  
    "RdsEcsSecurityGroupRel": [  
      {  
        "SecurityGroupId": "sg-bpxxxxxxxx",  
        "RegionId": "cn-hangzhou",  
        "NetType": "classic"  
      }  
    ]  
  },  
  "RequestId": "D18F5B88-ACA6-470E-9493-384412EDD902"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

15.2. ModifySecurityGroupConfiguration

You can call this operation to modify an ECS Security group that is bound to an ApsaraDB for MongoDB instance.

 **Note** For a sharded cluster instance, the bound ECS security group takes effect only for mongos nodes.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifySecurityGroupConfiguration	The operation that you want to perform. Set the value to ModifySecurityGroupConfiguration .
DBInstanceId	String	Yes	dds-bpxxxxxxx	The ID of the instance.
SecurityGroupId	String	Yes	sg-bpxxxxxxx	The ID of the ECS security group.  Note <ul style="list-style-type: none">• You can bind up to 10 ECS security groups to an ApsaraDB for MongoDB instance.• You can call the DescribeSecurityGroup operation of ECS to query the security groups in the specified region.
RegionId	String	No	cn-hangzhou	The region ID of the instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	E062C482-1A4B-469E-938C-96D28CFAE42E	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=ModifySecurityGroupConfiguration  
&DBInstanceId=dds-bpxxxxxxxx  
&SecurityGroupId=sg-bpxxxxxxxx  
&<Common request parameters>
```

Sample success responses

XML format

```
<RequestId>E062C482-1A4B-469E-938C-96D28CFAE42E</RequestId>
```

JSON format

```
{  
    "RequestId": "E062C482-1A4B-469E-938C-96D28CFAE42E"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

15.3. DescribeSecurityIps

You can call this operation to query the IP whitelists of an ApsaraDB for MongoDB instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeSecurityIps	The operation that you want to perform. Set the value to DescribeSecurityIps .
DBInstanceId	String	Yes	dds-bpxxxxxxxx	The ID of the instance.

Parameter	Type	Required	Example	Description
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
SecurityIpGroups	Array		An array that consists of the information of IP whitelists.
SecurityIpGroup			
SecurityIpGroup Attribute	String	hidden	The attribute of the IP whitelist. This parameter is empty by default.
SecurityIpGroupName	String	default	The name of the IP whitelist.
SecurityIpList	String	47.xxx.xxx.xx,100.xxx.x.0/24	The IP addresses in the whitelist.
SecurityIps	String	47.xxx.xxx.xx,100.xxx.x.0/24	The IP addresses in the default whitelist.
RequestId	String	FC724D23-2962-479E-ABB1-606C935AE7FD	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeSecurityIps
&DBInstanceId=dds-bpxxxxxxxx
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeSecurityIpsResponse>
  <SecurityIpGroups>
    <SecurityIpGroup>
      <SecurityIpList>114.xxx.xxx.xx</SecurityIpList>
      <SecurityIpGroupAttribute></SecurityIpGroupAttribute>
      <SecurityIpGroupName>allowserver</SecurityIpGroupName>
    </SecurityIpGroup>
    <SecurityIpGroup>
      <SecurityIpList>47.xxx.xxx.xx,100.xxx.xxx.0/24</SecurityIpList>
      <SecurityIpGroupAttribute></SecurityIpGroupAttribute>
      <SecurityIpGroupName>default</SecurityIpGroupName>
    </SecurityIpGroup>
  </SecurityIpGroups>
  <SecurityIps>47.xxx.xxx.xx,100.xxx.xxx.0/24</SecurityIps>
  <RequestId>FC724D23-2962-479E-ABB1-606C935AE7FD</RequestId>
</DescribeSecurityIpsResponse>
```

JSON format

```
{
  "SecurityIpGroups": {
    "SecurityIpGroup": [
      {
        "SecurityIpList": "114.xxx.xxx.xx",
        "SecurityIpGroupAttribute": "",
        "SecurityIpGroupName": "allowserver"
      },
      {
        "SecurityIpList": "47.xxx.xxx.xx,100.xxx.xxx.0/24",
        "SecurityIpGroupAttribute": "",
        "SecurityIpGroupName": "default"
      }
    ],
    "SecurityIps": "47.xxx.xxx.xx,100.xxx.xxx.0/24",
    "RequestId": "FC724D23-2962-479E-ABB1-606C935AE7FD"
  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

15.4. ModifySecurityIps

You can call this operation to modify the IP address whitelist of an ApsaraDB for MongoDB instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifySecurityIps	The operation that you want to perform. Set the value to ModifySecurityIps .
DBInstanceId	String	Yes	dds-bpxxxxxxxx	The ID of an instance.
SecurityIps	String	Yes	127.0.0.1/24,127.0.1	<p>The IP addresses in an IP address whitelist. Separate multiple IP addresses with commas (,). You can add a maximum of 1,000 different IP addresses to a whitelist. You can add IP addresses in one of the following two formats:</p> <ul style="list-style-type: none"> IP addresses. Example: 10.23.12.24. Classless Inter-Domain Routing (CIDR) blocks, such as 10.23.12.24/24, where 24 indicates that the prefix of the CIDR block is 24-bit long. You can replace 24 with a value within the range of 1 to 32.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.
ModifyMode	String	No	Append	<p>The method of modification. Valid values:</p> <ul style="list-style-type: none"> Cover: overwrites the whitelist. Append: appends data to the whitelist. Delete: deletes the whitelist. <p>The default value is Cover.</p>
SecurityIpGroupName	String	No	allowserver	The name of the IP address whitelist to be modified. The default value is default .

Parameter	Type	Required	Example	Description
SecurityIpGroupAttribute	String	No	test	<p>The attributes of an IP address whitelist. It can contain a maximum of 120 characters in length and can contain uppercase letters, lowercase letters, and digits.</p> <p>This parameter is empty by default.</p>

Response parameters

Parameter	Type	Example	Description
RequestId	String	61B05CCF-EBAB-4BF3-BA67-D77256A721E2	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=ModifySecurityIps
&SecurityIps=127.0.0.1/24,127.0.0.1
&DBInstanceId=dds-bp****
&<Common request parameters>
```

Sample success responses

XML format

```
<ModifySecurityIpsResponse>
    <RequestId>61B05CCF-EBAB-4BF3-BA67-D77256A721E2</RequestId>
</ModifySecurityIpsResponse>
```

JSON format

```
{
    "RequestId": "61B05CCF-EBAB-4BF3-BA67-D77256A721E2"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

16. Encryption Keys

16.1. CheckCloudResourceAuthorized

You can call this operation to check whether KMS keys are authorized to ApsaraDB for MongoDB instances.

Before you enable Transparent Data Encryption (TDE) by calling the [ModifyDBInstanceTDE](#) operation, you can call this operation to check whether KMS keys are authorized to ApsaraDB for MongoDB instances.

 **Note** TDE cannot be enabled if KMS keys are not authorized to ApsaraDB for MongoDB instances. You can [submit a ticket](#) to modify the authorization information.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CheckCloudResourceAuthorized	The operation that you want to perform. Set the value to CheckCloudResourceAuthorized .
DBInstanceId	String	Yes	dds-bpxxxxxxxx	The ID of the instance.
TargetRegionId	String	Yes	cn-hangzhou	The region ID of the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of the instance.
RegionId	String	No	cn-hangzhou	The region ID. You can call the DescribeRegions operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	A0181AC4-F186-46ED-87CA-100C70B86729	The ID of the request.

Parameter	Type	Example	Description
AuthorizationState	Integer	1	<p>Indicates whether KMS keys are authorized to ApsaraDB for MongoDB instances. Valid values:</p> <ul style="list-style-type: none"> • 0: KMS keys are not authorized. • 1: KMS keys are authorized. • 2: KMS is not enabled.
RoleArn	String	acs:ram::140xxxxxxxxx:role/aliyunrdsinstanceencryptiondefaultrole	<p>The role information of the authorized Alibaba Resource Name (ARN).</p> <p>? Note This parameter is returned only when the value of the <code>AuthorizationState</code> parameter is 1.</p>

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=CheckCloudResourceAuthorized
&DBInstanceId=dds-bpxxxxxxxx
&TargetRegionId=cn-hangzhou
&<Common request parameters>
```

Sample success responses

XML format

```
<RequestId>A0181AC4-F186-46ED-87CA-100C70B86729</RequestId>
<AuthorizationState>1</AuthorizationState>
<RoleArn>acs:ram::140xxxxxxxxx:role/aliyunrdsinstanceencryptiondefaultrole</RoleArn>
```

JSON format

```
{
  "RequestId": "A0181AC4-F186-46ED-87CA-100C70B86729",
  "AuthorizationState": 1,
  "RoleArn": "acs:ram::140xxxxxxxxx:role/aliyunrdsinstanceencryptiondefaultrole"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

16.2. DescribeUserEncryptionKeyList

Queries the list of custom keys for an ApsaraDB for MongoDB instance.

You can use the custom key obtained by calling the `DescribeUserEncryptionKeyList` operation to enable TDE. For more information, see [ModifyDBInstanceTDE](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeUserEncryptionKeyList	The operation that you want to perform. Set the value to <code>DescribeUserEncryptionKeyList</code> .
DBInstanceId	String	Yes	dds-bpxxxxxxxx	The ID of the instance.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the <code>DescribeRegions</code> operation to query the region ID of the instance.
TargetRegionId	String	No	cn-hangzhou-h	The zone ID of the instance. You can call the <code>DescribeRegions</code> operation to query the most recent zone list.

Response parameters

Parameter	Type	Example	Description
KeyIds	List	2a4f4ac2-xxxx-xxxx-xxxx-xxxxxxxxxx	The list of custom keys.
RequestId	String	7CD51DA4-A499-43CE-B9B5-20CD4FDC648E	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeUserEncryptionKeyList
&DBInstanceId=dds-bpxxxxxxxx
&<Common request parameters>
```

Sample success responses

XML format

```
<RequestId>7CD51DA4-A499-43CE-B9B5-20CD4FDC648E</RequestId>
<KeyIds>
  <KeyId>2a4f4ac2-xxxx-xxxx-xxxx-xxxxxxxxxxxx</KeyId>
  <KeyId>578b59ad-xxxx-xxxx-xxxx-xxxxxxxxxxxx</KeyId>
  <KeyId>749c1df7-xxxx-xxxx-xxxx-xxxxxxxxxxxx</KeyId>
</KeyIds>
```

JSON format

```
{
  "RequestId": "7CD51DA4-A499-43CE-B9B5-20CD4FDC648E",
  "KeyIds": {
    "KeyId": [
      "2a4f4ac2-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
      "578b59ad-xxxx-xxxx-xxxx-xxxxxxxxxxxx",
      "749c1df7-xxxx-xxxx-xxxx-xxxxxxxxxxxx"
    ]
  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

16.3. DescribeDBInstanceEncryptionKey

You can call this operation to query the details of a key for an ApsaraDB for MongoDB instance.

When you call this operation, the instance must have transparent data encryption (TDE) enabled in BYOK mode. You can call the [ModifyDBInstanceTDE](#) operation to enable TDE.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	No	DescribeDBInstanceEncryptionKey	The operation that you want to perform. Set the value to DescribeDBInstancePerformance .
DBInstanceId	String	Yes	dds-bpxxxxxxxx	The ID of the instance.

Parameter	Type	Required	Example	Description
EncryptionKey	String	No	2xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxx	The custom key for the instance. You can call the DescribeUserEncryptionKeyList operation to query the list of custom keys for an ApsaraDB for MongoDB instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	783C2062-A2D3-4EA8-88AD-E43F990C23BB	The ID of the request.
EncryptionKey	String	2xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxx	The key for the instance.
Description	String	key description example	The description of the key for the instance.
KeyUsage	String	ENCRYPT/DECRYPT	The purpose of the key for the instance.
DeleteDate	String	2020-07-06T18:22:03Z	The scheduled time when the key for the instance will be deleted. If the value is empty, the key will not be deleted.
Creator	String	123456	The UID of the key creator.
EncryptionKeyStatus	String	Enabled	Indicates whether the key for the instance is enabled. Valid values: <ul style="list-style-type: none">• Enabled• Disabled
Origin	String	Aliyun_KMS	The source of the key for the instance.
MaterialExpireTime	String	2020-07-06T18:22:03Z	The expiration time of the key for the instance. The time is displayed in UTC. If the value is empty, the key for the instance will not expire.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeDBInstanceEncryptionKey  
&DBInstanceId=dds-bpxxxxxxx  
&<Common request parameters>
```

Sample success responses

[XML format](#)

```
<EncryptionKey>2xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx</EncryptionKey>  
<Description/>  
<DeleteDate/>  
<Creator>123456</Creator>  
<RequestId>783C2062-A2D3-4EA8-88AD-E43F990C23BB</RequestId>  
<MaterialExpireTime/>  
<EncryptionKeyStatus>Enabled</EncryptionKeyStatus>  
<Origin>Aliyun_KMS</Origin>  
<KeyUsage>ENCRYPT/DECRYPT</KeyUsage>
```

[JSON format](#)

```
{  
    "EncryptionKey": "2xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx",  
    "Description": "",  
    "DeleteDate": "",  
    "Creator": "123456",  
    "RequestId": "783C2062-A2D3-4EA8-88AD-E43F990C23BB",  
    "MaterialExpireTime": "",  
    "EncryptionKeyStatus": "Enabled",  
    "Origin": "Aliyun_KMS",  
    "KeyUsage": "ENCRYPT/DECRYPT"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

16.4. DescribeDBInstanceTDEInfo

You can call this operation to query whether TDE is enabled for an ApsaraDB for MongoDB instance.

 **Note** For more information about this function, see Configure TDE.

Before you call this operation, make sure that the following requirements are met:

- A replica set or sharded cluster instance is used.
- The storage engine of the instance is WiredTiger.
- The database engine version of the instance is 4.0 or 4.2. If the database engine version of your instance is earlier than 4.0, you can call [UpgradeDBInstanceEngineVersion](#) to upgrade the database engine.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDBInstanceTDEInfo	The operation that you want to perform. Set the value to DescribeDBInstanceTDEInfo .
DBInstanceId	String	Yes	dds-bpxxxxxxx	The ID of the Message Queue for Apache Kafka instance to be deleted.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	F4DD0E29-361B-42F2-9301-B0048CCCE5D6	The ID of the request.
TDEStatus	String	enabled	The TDE status. Valid values: • enabled • disabled

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=DescribeDBInstanceTDEInfo
&DBInstanceId=dds-bpxxxxxxx
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeDBInstanceTDEInfoResponse>
    <TDEStatus>enabled</TDEStatus>
    <RequestId>F4DD0E29-361B-42F2-9301-B0048CCCE5D6</RequestId>
</DescribeDBInstanceTDEInfoResponse>
```

JSON format

```
{  
    "TDEStatus": "enabled",  
    "RequestId": "F4DD0E29-361B-42F2-9301-B0048CCCE5D6"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

16.5. ModifyDBInstanceTDE

You can call this operation to modify the transparent data encryption (TDE) status of an ApsaraDB for MongoDB instance.

TDE can be used to perform real-time I/O encryption and decryption on data files. Data is encrypted before being written to disks, and decrypted before being read from disks to the memory. For more information, see [Configure TDE](#).

 **Note** After TDE is enabled, it cannot be disabled.

Before you call this operation, make sure that the following requirements are met:

- A replica set or sharded cluster instance is used.
- The storage engine of the instance is WiredTiger.
- The database engine version of the instance is 4.0 or 4.2. If the database engine version is earlier than 4.0, you can call the [UpgradeDBInstanceEngineVersion](#) operation to upgrade the database engine.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyDBInstanceTDE	The operation that you want to perform. Set the value to ModifyDBInstanceTDE .
DBInstanceId	String	Yes	dds-bpxxxxxxxx	The ID of an instance.

Parameter	Type	Required	Example	Description
TDEStatus	String	Yes	enabled	<p>The TDE status. Set the value to Enabled.</p> <p>Note Exercise caution when enabling TDE. After TDE is enabled, it cannot be disabled.</p>
RegionId	String	No	cn-hangzhou	<p>The region ID of the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of the instance.</p>
EncryptorName	String	No	aes-256-cbc	<p>The encryption method. Set the value to AES-256-CBC.</p> <p>Note This parameter is valid only when you specify the TDEStatus parameter to enabled.</p>
EncryptionKey	String	No	749c1df7-xxxx-xxxx-xxxx-xxxxxxxxxx	<p>The custom key.</p>

Parameter	Type	Required	Example	Description
RoleARN	String	No	acs:ram::123456 789012****:role/ adminrole	<p>The ARN of the role. It is in the format of <code>acs:ram::\$accountID:role/\$roleName</code>.</p> <div style="background-color: #e1f5fe; padding: 10px;"> <p>? Note</p> <ul style="list-style-type: none"> <code>\$accountID</code> : indicates the ID of the Alibaba Cloud account that owns the RAM role. To view the account ID, log on to the Alibaba Cloud Management Console, move your pointer over your profile picture in the upper-right corner, and then click Security Settings. <code>\$roleName</code> : indicates the name of the RAM role. To view the RAM role name, perform the following steps: Log on to the RAM console. In the left-side navigation pane, click RAM Roles. In the RAM Role Name column on the page that appears, you can view the name of the RAM role. </div>

Response parameters

Parameter	Type	Example	Description
RequestId	String	434D7127-6229-4355-BA50-7A3685A725DF	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=ModifyDBInstanceTDE
&DBInstanceId=dds-bpxxxxxxxx
&TDEStatus=enabled
&<Common request parameters>
```

Sample success responses

XML format

```
<ModifyDBInstanceTDEResponse>
  <RequestId>434D7127-6229-4355-BA50-7A3685A725DF</RequestId>
</ModifyDBInstanceTDEResponse>
```

JSON format

```
{
  "RequestId": "434D7127-6229-4355-BA50-7A3685A725DF"
}
```

Error code

HttpCode	Error code	Error message	Description
403	IncorrectDBInstanceState	Current DB instance state does not support this operation.	The error message returned because the operation is not supported while the instance is in its current state. Check whether the specified parameters are correct.
403	IncorrectDBInstanceLockMode	Current DB instance lock mode does not support this operation.	The error message returned because the instance is locked.

For more information about error codes, visit [API Error Center](#).

17. SSL encryption

17.1. ModifyDBInstanceSSL

You can call this operation to modify the SSL configuration of a MongoDB instance.

Ensure that the instance meets the following conditions when you call this operation:

- The instance is in the running state.
- The instance type is replica set.
- The database version of the instance is 3.4 or 4.0.

 **Note** Whenever you enable or disable SSL encryption, or update the SSL certificate, the instance will restart. We recommend that you call this operation during off-peak hours.

Debugging

[OpenAPI Explorer](#) simplifies API usage. You can use OpenAPI Explorer to perform debugging operations, such as retrieve APIs, call APIs, and dynamically generate SDK example code.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyDBInstanceSSL	The operation that you want to perform. Set the value to DescribeDBInstanceSSL .
DBInstanceId	String	Yes	dds-bpxxxxxxxx	The ID of the instance.
SSLAction	String	Yes	Open	The operation that you perform to execute SSL features. Valid values: <ul style="list-style-type: none">• Open: enables SSL encryption.• Close: disables SSL encryption.• Update: updates the SSL certificate.
AccessKeyId	String	No	LTAIgbT Gpxxxxxx	The AccessKey ID provided to you by Alibaba Cloud.

Response parameters

Parameter	Type	Example	Description
-----------	------	---------	-------------

Parameter	Type	Example	Description
RequestId	String	6D806B11-078F-4154-BF9F-844F56D08964	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=ModifyDBInstanceSSL
&DBInstanceId=dds-bpxxxxxxxx
&SSLAction=Open
&<Common request parameters>
```

Successful response examples

XML format

```
<ModifyDBInstanceSSLResponse>
<RequestId>6D806B11-078F-4154-BF9F-844F56D08964</RequestId>
</ModifyDBInstanceSSLResponse>
```

JSON format

```
{
  "RequestId": "6D806B11-078F-4154-BF9F-844F56D08964"
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	IncorrectDBInstanceState	Current DB instance state does not support this operation.	The error message returned when the operation is not supported while the instance is in its current state. Check whether the specified parameters are correct.
403	IncorrectDBInstanceLockMode	Current DB instance lock mode does not support this operation.	The error message returned when the instance is locked.

[View error codes](#)

17.2. DescribeDBInstanceSSL

Queries the SSL settings of an ApsaraDB for MongoDB instance.

Before you call this operation, make sure that the following requirements are met:

- The instance is in the running state.
- The instance is a replica set instance.
- The database version of the instance is 3.4 or 4.0.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDBInstanceSSL	The operation that you want to perform. Set the value to DescribeDBInstanceSSL .
DBInstanceId	String	Yes	dds-bpxxxxxxx	The ID of the instance.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of an instance.
AccessKeyId	String	No	LTAIgbT Gpxxxxxx	The AccessKey ID provided to you by Alibaba Cloud.

Response parameters

Parameter	Type	Example	Description
SSLExpiredTime	String	2020-03-11T02:28:25Z	The time when the SSL certificate expires. The time is in the <i>yyyy-MM-ddT HH:mm:ssZ</i> format. The time is displayed in UTC.
RequestId	String	36BB1BC2-789C-4BBA-A519-C5B388E4B0D4	The ID of the request.
SSLStatus	String	Open	The status of the SSL feature. Valid values: <ul style="list-style-type: none"> • Open: The SSL feature is enabled. • Closed: The SSL feature is disabled.
CertCommonName	String	dds-bpxxxxxxx.mongodb.rds.aliyuncs.com	The name of the SSL certificate.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=DescribeDBInstanceSSL  
&DBInstanceId=dds-bpxxxxxxxx  
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeDBInstanceSSLResponse>  
  <SSLExpiredTime>2020-03-11T02:28:25Z</SSLExpiredTime>  
  <RequestId>36BB1BC2-789C-4BBA-A519-C5B388E4B0D4</RequestId>  
  <SSLStatus>Open</SSLStatus>  
  <CertCommonName>dds-bpxxxxxxxx.mongodb.rds.aliyuncs.com</CertCommonName>  
</DescribeDBInstanceSSLResponse>
```

JSON format

```
{ "SSLExpiredTime": "2020-03-11T02:28:25Z", "RequestId": "36BB1BC2-789C-4BBA-A519-C5B388E4B0D4", "SSLStatus": "Open", "CertCommonName": "dds-bpxxxxxxxx.mongodb.rds.aliyuncs.com" }
```

Error codes

For a list of error codes, visit the [API Error Center](#).

18. Audit Logs

18.1. DescribeAuditRecords

Queries entries in audit logs of an ApsaraDB for MongoDB instance.

- When you call this operation, ensure that the audit log feature of the instance is enabled. Otherwise, the operation returns an empty audit log.
- This operation is applicable only to **general-purpose local-disk** and **dedicated local-disk** instances.
- You can call this operation up to 30 times per minute. To call this operation at a higher frequency, use a Logstore. For more information, see [Manage a Logstore](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeAuditRecords	The operation that you want to perform. Set the value to DescribeAuditRecords .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of the instance.
DBInstanceId	String	Yes	dds-bp12c5b040dc****	The ID of the instance. <div style="background-color: #e1f5fe; padding: 10px; border-radius: 5px;">? Note If you set this parameter to the ID of a sharded cluster instance, you must also specify the <code>Nodeld</code> parameter.</div>

Parameter	Type	Required	Example	Description
Nodeld	String	No	d-bp128a003436*** *	<p>The ID of the mongos node or shard node whose audit logs you want to query in the instance. If the instance is a sharded cluster instance, you must specify this parameter.</p> <div style="background-color: #e1f5fe; padding: 10px; border-radius: 5px;"> ? Note This parameter is valid only when DBInstanceId is set to the ID of a sharded cluster instance. </div>
StartTime	String	Yes	2019-03-13T12:11:14Z	<p>The beginning of the time range to query. Specify the time in the <i>yyyy-MM-ddTHH:mm:ssZ</i> format. The time must be in UTC.</p>
EndTime	String	Yes	2019-03-13T13:11:14Z	<p>The end of the time range that is specified to query the audit log. The end time must be later than the start time. Specify the time in the <i>yyyy-MM-ddTHH:mm:ssZ</i> format. The time must be in UTC.</p> <div style="background-color: #e1f5fe; padding: 10px; border-radius: 5px;"> ? Note The end time must be within 24 hours from the start time. Otherwise, the query fails. </div>
Database	String	No	testdatabase	<p>The name of the database to be queried. By default, all databases are queried.</p>
User	String	No	root	<p>The user of the database. If you do not specify this parameter, this operation returns records of all users.</p>
Form	String	No	Stream	<p>The form of the audit log that the operation returns. Valid values:</p> <ul style="list-style-type: none"> • File: triggers the generation of audit logs. If this parameter is set to File, only common parameters are returned. • Stream: returns data streams. <p>Default value: Stream.</p>

Parameter	Type	Required	Example	Description
QueryKeywords	String	No	slow	The keywords that are used for queries. Separate multiple keywords with spaces. The maximum number of keywords is 10.
PageSize	Integer	No	30	The number of entries to return on each page. Valid values: 30, 50, and 100. Default value: 30.
PageNumber	Integer	No	1	The number of the page to return. The value must be an integer that is greater than 0. Default value: 1.
OrderType	String	No	asc	<p>The order of time in which the log entries to return are sorted. Valid values:</p> <ul style="list-style-type: none"> • asc: The log entries are sorted by time in ascending order. • desc: The log entries are sorted by time in descending order.

Response parameters

Parameter	Type	Example	Description
TotalRecordCount	Integer	40	The total number of entries.
PageRecordCount	Integer	30	The maximum number of entries on the current page.
RequestId	String	3278BEB8-503B-4E46-8F7E-D26E040C9769	The ID of the request.
PageNumber	Integer	1	The number of the page to return.
Items	Array of SQLRecord		An array that consists of the information of audit log entries.
SQLRecord			
HostAddress	String	11.xxx.xxx.xxx	The IP address of the client.

Parameter	Type	Example	Description
TableName	String	C1	The name of the collection.
ReturnRowCounts	Long	2	The number of SQL audit log entries that are returned.
DBName	String	test123	The name of the database.
ExecuteTime	String	2019-03-11T03:30:27Z	The time when the statement was executed. The time is in the <i>yyyy-MM-ddT HH:mm:ssZ</i> format. The time is displayed in UTC.
ThreadID	String	140682188297984	The ID of the thread that is recorded in the SQL audit log entry.
TotalExecutionTimes	Long	700	The duration of the statement execution. Unit: microseconds.
Syntax	String	{ \"atype\" : \"createCollection\", \"param\" : { \"ns\" : \"123.test1\" }, \"result\" : \"OK\" }	The statement that was executed.
AccountName	String	root	The account of the database.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeAuditRecords
&StartTime=2019-03-13T12:11:14Z
&EndTime=2019-03-13T13:11:14Z
&DBInstanceId=dds-bp12c5b040dc****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<?xml version="1.0" encoding="UTF-8" ?>
<DescribeAuditRecordsResponse>
    <Items>
        <SQLRecord>
            <TotalExecutionTimes>703</TotalExecutionTimes>
            <Syntax>{ "type": "command", "param": {}, "command": "123.test1", "args": {}, "find": "ns='123.test1' filter": {}, "x": 1, "y": 2, "shardVersion": [ { "timestamp": 0, "t": 0, "i": 0 }, { "oid": "00000000000000000000000000000000", "clusterTime": { "timestamp": 1552275017, "i": 2 }, "signature": { "hash": "9qfygDs61fKCvdXJqjq+f0zML0E", "type": "00", "keyId": "$numberLong": 6666955498811555841, "client": "MongoDB Shell", "driver": "MongoDB Internal Client", "version": "3.4.10", "os": "Linux", "name": "Ubuntu", "architecture": "x86_64", "version": "16.04", "mongos": "47.xxx.xxx.xx:53854", "host": "rxxxxxx.cloud.cm10:3074", "client": "4.0.0", "configServerState": "opTime", "ts": "1552275017", "i": 2, "t": 1, "numberLong": 3, "db": "123", "result": "OK"} }</Syntax>
            <HostAddress>11.xxx.xxx.xx</HostAddress>
            <ExecuteTime>2019-03-11T03:30:27Z</ExecuteTime>
            <ThreadID>139xxxxxxxx</ThreadID>
            <AccountName>__system;</AccountName>
            <DBName>local;</DBName>
        </SQLRecord>
        <SQLRecord>
            <TotalExecutionTimes>0</TotalExecutionTimes>
            <Syntax>{ "type": "createIndex", "param": {}, "command": "123.test1", "indexName": "y_1", "indexSpec": { "v": 2, "key": "y_1", "ns": "123.test1" }, "result": "OK"}</Syntax>
            <HostAddress></HostAddress>
            <ExecuteTime>2019-03-11T03:30:06Z</ExecuteTime>
            <ThreadID>140xxxxxxxx</ThreadID>
            <AccountName>__system;</AccountName>
            <DBName>local;</DBName>
        </SQLRecord>
    </Items>
    <PageNumber>1</PageNumber>
    <TotalRecordCount>2</TotalRecordCount>
    <RequestId>3278BEB8-503B-4E46-8F7E-D26E040C9769</RequestId>
    <PageRecordCount>30</PageRecordCount>
</DescribeAuditRecordsResponse>
```

JSON format

```

HTTP/1.1 200 OK
Content-Type:application/json
{
  "Items" : [
    {
      "SQLRecord" : [
        {
          "TotalExecutionTimes" : 703,
          "Syntax" : "{ \"@type\" : \"command\", \"param\" : { \"command\" : \"find\", \"ns\" : \"123.test1\", \"args\" : { \"find\" : \"test1\", \"filter\" : { \"x\" : 1, \"y\" : 2 }, \"shardVersion\" : [ { \"$timestamp\" : { \"$t\" : 0, \"$i\" : 0 } }, { \"$oid\" : \"0000000000000000\" } ], \"$clusterTime\" : { \"$clusterTime\" : { \"$timestamp\" : { \"$t\" : 1552275017, \"$i\" : 2 } }, \"$signature\" : { \"$hash\" : { \"$binary\" : \"9qfygDs61fKCvdXJqjq+f0zML0E=\", \"$type\" : \"00\" }, \"$keyId\" : { \"$numberLong\" : \"6666955498811555841\" } }, \"$client\" : { \"$application\" : { \"name\" : \"MongoDB Shell\" }, \"$driver\" : { \"name\" : \"MongoDB Internal Client\", \"version\" : \"3.4.10\" }, \"$os\" : { \"$type\" : \"Linux\", \"name\" : \"Ubuntu\", \"architecture\" : \"x86_64\", \"version\" : \"16.04\" }, \"$mongos\" : { \"$host\" : \"rxxxxxx.cloud.cm10:3074\", \"$client\" : \"47.xxx.xxx.xx:53854\", \"version\" : \"4.0.0\" } }, \"$configServerState\" : { \"$opTime\" : { \"$ts\" : { \"$$t\" : 1552275017, \"$i\" : 2 } }, \"$t\" : { \"$numberLong\" : \"3\" } }, \"$db\" : \"123\", \"$result\" : \"OK\" },
          "HostAddress" : "11.xxx.xxx.xxx",
          "ExecuteTime" : "2019-03-11T03:30:27Z",
          "ThreadID" : "139xxxxxxxx",
          "AccountName" : "__system;",
          "DBName" : "local;"
        },
        {
          "TotalExecutionTimes" : 0,
          "Syntax" : "{ \"@type\" : \"createIndex\", \"param\" : { \"ns\" : \"123.test1\", \"indexName\" : \"y_1\", \"indexSpec\" : { \"v\" : 2, \"key\" : { \"y\" : 1 }, \"name\" : \"y_1\", \"ns\" : \"123.test1\" } }, \"$result\" : \"OK\" },
          "HostAddress" : "",
          "ExecuteTime" : "2019-03-11T03:30:06Z",
          "ThreadID" : "140xxxxxxxx",
          "AccountName" : "__system;",
          "DBName" : "local;"
        }
      ],
      "PageNumber" : 1,
      "TotalRecordCount" : 2,
      "RequestId" : "3278BEB8-503B-4E46-8F7E-D26E040C9769",
      "PageRecordCount" : 30
    }
  ]
}

```

Error codes

HttpCode	Error codes	Error message	Description
----------	-------------	---------------	-------------

HttpCode	Error codes	Error message	Description
400	InvalidEndTime.Format	Specified end time is not valid.	The error message returned because the specified EndTime parameter is invalid. Specify the time in the yyyy-MM-ddTHH:mmZ format. The time must be in UTC. The end time must be later than the start time.

For a list of error codes, visit the [API Error Center](#).

18.2. DescribeAuditPolicy

Queries whether the audit log feature is enabled for an ApsaraDB for MongoDB instance.

- The instance must be in the running state when you call this operation.
- This operation is applicable only to **general-purpose local-disk** and **dedicated local-disk** instances.
- You can call this operation up to 30 times per minute. To call this operation at a higher frequency, use a Logstore. For more information, see [Manage a Logstore](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeAuditPolicy	The operation that you want to perform. Set the value to DescribeAuditPolicy .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of the instance.
DBInstanceId	String	Yes	dds-bp12c5b040dc*** *	The ID of the instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	111E7B16-0A87-4CBA-B271-F34AD61E099F	The ID of the request.
LogAuditStatus	String	Enable	Indicates whether the log audit feature is enabled. Valid values: <ul style="list-style-type: none">• Enable• Disabled Default value: Disabled.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeAuditPolicy
&DBInstanceId=dds-bp12c5b040dc****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<?xml version="1.0" encoding="UTF-8" ?>
<DescribeAuditPolicyResponse>
  <LogAuditStatus>Enable</LogAuditStatus>
  <RequestId>111E7B16-0A87-4CBA-B271-F34AD61E099F</RequestId>
</DescribeAuditPolicyResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "LogAuditStatus" : "Enable",
  "RequestId" : "111E7B16-0A87-4CBA-B271-F34AD61E099F"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

18.3. ModifyAuditLogFilter

Modifies the types of entries in the audit log collected for an ApsaraDB for MongoDB instance.

- The instance must be in the running state when you call this operation.

- This operation is applicable only to **general-purpose local-disk** and **dedicated local-disk** instances.
- You can call this operation up to 30 times per minute. To call this operation at a higher frequency, use a Logstore. For more information, see [Manage a Logstore](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyAuditLogFilter	The operation that you want to perform. Set the value to ModifyAuditLogFilter .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the most recent region list.
DBInstanceId	String	Yes	dds-bp12c5b040dc***	The ID of the instance.
Filter	String	Yes	insert,query,update,delete	<p>The type of the audit log entries to be collected. Valid values:</p> <ul style="list-style-type: none"> • admin: O&M and management operations • slow: slow query logs • query: query operations • insert: insert operations • update: update operations • delete: delete operations • command: protocol commands such as the aggregate method
RoleType	String	No	primary	<p>The role of the node in the instance. Valid values:</p> <ul style="list-style-type: none"> • primary • secondary

Response parameters

Parameter	Type	Example	Description
RequestId	String	E209BE2B-F264-4B9D-81F6-A5A5FB1FBF28	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=ModifyAuditLogFilter
&Filter	insert,query,update,delete
&DBInstanceId=dds-bp12c5b040dc****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<?xml version="1.0" encoding="UTF-8" ?>
<ModifyAuditLogFilterResponse>
    <RequestId>E209BE2B-F264-4B9D-81F6-A5A5FB1FBF28</RequestId>
</ModifyAuditLogFilterResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
    "RequestId" : "E209BE2B-F264-4B9D-81F6-A5A5FB1FBF28"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

18.4. DescribeAuditLogFilter

Queries the types of entries in the audit log collected for an ApsaraDB for MongoDB instance.

- The instance must be in the running state when you call this operation.
- This operation is applicable only to **general-purpose local-disk** and **dedicated local-disk** instances.
- You can call this operation up to 30 times per minute. To call this operation at a higher frequency, use a Logstore. For more information, see [Manage a Logstore](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeAuditLogFilter	The operation that you want to perform. Set the value to DescribeAuditLogFilter .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the most recent region list.
DBInstanceId	String	Yes	dds-bp12c5b040dc***	The ID of the instance.
RoleType	String	No	primary	The role of the node in the instance. Valid values: <ul style="list-style-type: none">• primary• secondary

Response parameters

Parameter	Type	Example	Description
RequestId	String	7BAFB0B3-2A54-5B65-B13E-3937CF08FEE6	The ID of the request.
Filter	String	admin,slow,insert,query,update,delete,command	The type of the audit log entries. Valid values: <ul style="list-style-type: none">• admin: O&M and management operations• slow: slow query logs• query: query operations• insert: insert operations• update: update operations• delete: delete operations• command: protocol commands such as the aggregate method
RoleType	String	primary	The role of the node.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeAuditLogFilter  
&DBInstanceId=dds-bp12c5b040dc****  
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK  
Content-Type:application/xml  
<DescribeAuditLogFilterResponse>  
  <RequestId>7BAFB0B3-2A54-5B65-B13E-3937CF08FEE6</RequestId>  
  <Filter>admin</Filter>  
</DescribeAuditLogFilterResponse>
```

JSON format

```
HTTP/1.1 200 OK  
Content-Type:application/json  
{  
  "RequestId" : "7BAFB0B3-2A54-5B65-B13E-3937CF08FEE6",  
  "Filter" : "admin"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

18.5. ModifyAuditPolicy

Enables or disables the audit log feature or set the log retention period for an ApsaraDB for MongoDB instance.

- This operation is applicable only to **general-purpose local-disk** and **dedicated local-disk** instances.
- You can call this operation up to 30 times per minute. To call this operation at a higher frequency, use a Logstore. For more information, see [Manage a Logstore](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyAuditPolicy	The operation that you want to perform. Set the value to ModifyAuditPolicy .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of the instance.
DBInstanceId	String	Yes	dds-bp1785659e3f***	The ID of the instance.
AuditStatus	String	Yes	enable	Specifies whether the audit log feature is enabled. Valid values: • enable • disabled
StoragePeriod	Integer	No	30	The log retention period. Valid values: 1 to 365 days. Default value: 30 days.
AuditLogSwitchSource	String	No	Console	The request source for the audit log feature. Set the value to Console .
ServiceType	String	No	Standard	The type of the audit log feature. Valid values: • Trial : the free trial edition • Standard : the official edition

 **Note** Default value: **Trial**. Starting from January 6, 2022, the official edition of the audit log feature has been launched in all regions, and new applications for the free trial edition have ended. We recommend that you set this parameter to **Standard**.

Response parameters

Parameter	Type	Example	Description
-----------	------	---------	-------------

Parameter	Type	Example	Description
RequestId	String	DC04D812-F18D-4568-9B88-F260D9590116	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=ModifyAuditPolicy
&AuditStatus=enable
&DBInstanceId=dds-bp1785659e3f****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<?xml version="1.0" encoding="UTF-8" ?>
<ModifyAuditPolicyResponse>
  <RequestId>DC04D812-F18D-4568-9B88-F260D9590116</RequestId>
</ModifyAuditPolicyResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "DC04D812-F18D-4568-9B88-F260D9590116"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

18.6. DescribeMongoDBLogConfig

Queries the audit log feature configurations of an ApsaraDB for MongoDB instance.

This operation is applicable only to **general-purpose local-disk** and **dedicated local-disk** instances.

This operation depends on the audit log feature of ApsaraDB for MongoDB. You can enable the audit log feature based on your business needs. For more information, see [Enable the audit log feature](#)

- Starting from January 6, 2022, the official edition of the audit log feature has been launched in all regions, and new applications for the free trial edition have ended. For more information, see [Notice on official launch of the pay-as-you-go audit log feature and no more application for the free trial edition](#)
- The official edition is charged based on the storage usage and retention period. For more

information, see the [Pricing](#) tab of the ApsaraDB for MongoDB product page.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeMongoDBLogConfig	The operation that you want to perform. Set the value to DescribeMongoDBLogConfig .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of the instance.
DBInstanceId	String	Yes	dds-bp12c5b040dc***	The ID of the instance. You can call the DescribeDBInstances operation to query the ID of the instance.

Response parameters

Parameter	Type	Example	Description
UserProjectName	String	nosql-176498472570****-cn-hangzhou	The name of the Log Service project.
RequestId	String	664ECE26-658A-47C5-88F6-870B0132E8D2	The ID of the request.
IsUserProjectLogstoreExist	Integer	1	Indicates whether a Log Service project exists in the current region. Valid values: <ul style="list-style-type: none"> 1: A Log Service project exists in the current region. 0 or null: A Log Service project does not exist in the current region.

Parameter	Type	Example	Description
IsEtlMetaExist	Integer	1	<p>Indicates whether a rule to distribute logs to Logtail is created. For more information, see Logtail overview. Valid values:</p> <ul style="list-style-type: none"> • 1: A rule to distribute logs to Logtail is created. • 0 or null: A rule to distribute logs to Logtail is not created.
ServiceType	String	Standard	<p>The type of the audit log feature. Valid values:</p> <ul style="list-style-type: none"> • Trail: the free trial edition • Standard: the official edition
EnableAudit	Boolean	true	<p>Indicates whether to enable the audit log feature is enabled.</p> <ul style="list-style-type: none"> • true • false
TtlForTrail	Long	1	The retention period for the free trial edition of the audit log feature.
UsedStorageForTrail	Long	12548178759	The used storage space for the free trial edition of the audit log feature. Unit: bytes.
PreserveStorageForTrail	Long	107374182400	The maximum storage space for the free trial edition of the audit log feature. Unit: bytes. You can set the maximum up to 107,374,182,400 bytes.
TtlForStandard	Long	30	The retention period for the official edition of the audit log feature. Valid values: 1 to 365 days.
UsedStorageForStandard	Long	20163	The used storage space for the formal edition of the audit log feature. Unit: bytes.
PreserveStorageForStandard	Long	-1	The maximum storage space for the formal edition of the audit log feature. If the value is -1, no maximum is set.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeMongoDBLogConfig  
&DBInstanceId=dds-bp12c5b040dc****  
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK  
Content-Type:application/xml  
<DescribeMongoDBLogConfigResponse>  
    <EnableAudit>true</EnableAudit>  
    <TtlForStandard>30</TtlForStandard>  
    <PreserveStorageForStandard>-1</PreserveStorageForStandard>  
    <UserProjectName>nosql-1764984725705461-cn-hangzhou</UserProjectName>  
    <RequestId>58E34DEE-EF44-5A59-B83E-A5B6F82CF5C9</RequestId>  
    <ServiceType>Standard</ServiceType>  
    <IsUserProjectLogstoreExist>1</IsUserProjectLogstoreExist>  
    <UsedStorageForTrail>12565942384</UsedStorageForTrail>  
    <PreserveStorageForTrail>107374182400</PreserveStorageForTrail>  
    <IsEtlMetaExist>1</IsEtlMetaExist>  
    <TtlForTrail>30</TtlForTrail>  
    <UsedStorageForStandard>20163</UsedStorageForStandard>  
</DescribeMongoDBLogConfigResponse>
```

JSON format

```
HTTP/1.1 200 OK  
Content-Type:application/json  
{  
    "EnableAudit" : true,  
    "TtlForStandard" : 30,  
    "PreserveStorageForStandard" : -1,  
    "UserProjectName" : "nosql-1764984725705461-cn-hangzhou",  
    "RequestId" : "58E34DEE-EF44-5A59-B83E-A5B6F82CF5C9",  
    "ServiceType" : "Standard",  
    "IsUserProjectLogstoreExist" : 1,  
    "UsedStorageForTrail" : 12565942384,  
    "PreserveStorageForTrail" : 107374182400,  
    "IsEtlMetaExist" : 1,  
    "TtlForTrail" : 30,  
    "UsedStorageForStandard" : 20163  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

19.Log management

19.1. DescribeSlowLogRecords

Queries entries in slow query logs of an ApsaraDB for MongoDB instance.

- This operation is applicable only to **general-purpose local-disk** or **dedicated local-disk** instances.
- You can call this operation up to 30 times per minute. To call this operation at a higher frequency, use a Logstore. For more information, see [Manage a Logstore](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeSlowLogRecords	The operation that you want to perform. Set the value to DescribeSlowLogRecords .
RegionId	String	No	cn-hangzhou	<p>The region ID of the instance.</p> <p>Note You can call the DescribeDBInstanceAttribute operation to query the region ID of the instance.</p>
DBInstanceId	String	Yes	dds-bp1fc7e65108****	<p>The ID of the instance.</p> <p>Note If you specify this parameter to the ID of a sharded cluster instance, you must also specify the <code>NodeId</code> parameter.</p>

Parameter	Type	Required	Example	Description
Nodeld	String	No	d-bp18b06ebc21****	<p>The ID of the shard node.</p> <div style="background-color: #e1f5fe; padding: 10px;"> ? Note This parameter is required only when you specify the <code>DBInstanceId</code> parameter to the ID of a sharded cluster instance. </div>
StartTime	String	Yes	2021-08-15T14:13Z	<p>The beginning of the time range to query. Specify the time in the <code>yyyy-MM-ddT HH:mmZ</code> format. The time must be in UTC.</p>
EndTime	String	Yes	2021-08-16T14:13Z	<p>The end of the time range to query. Specify the time in the <code>yyyy-MM-ddT HH:mmZ</code> format. The time must be in UTC.</p> <div style="background-color: #e1f5fe; padding: 10px;"> ? Note <ul style="list-style-type: none"> The end time must be later than the start time. The end time must be within 24 hours from the start time. Otherwise, the query fails. </div>
DBName	String	No	mongodbtest	The name of the database.
PageSize	Integer	No	30	The number of entries to return on each page. Valid values: 30 to 100 .
PageNumber	Integer	No	1	The number of the page to return. The value must be an integer that is greater than 0. Default value: 1 .
OrderType	String	No	asc	<p>The order of time in which the log entries to return are sorted. Valid values:</p> <ul style="list-style-type: none"> asc: The log entries are sorted by time in ascending order. desc: The log entries are sorted by time in descending order.

Parameter	Type	Required	Example	Description
ResourceGroupId	String	No	rg-acfmyiu4ekp****	The ID of the resource group.

Response parameters

Parameter	Type	Example	Description
TotalRecordCount	Integer	1	The total number of entries.
PageRecordCount	Integer	1	The number of slow query log entries returned on the page.
RequestId	String	8076C4BA-DDBD-529C-BFF4-D8620C3F****	The ID of the request.
PageNumber	Integer	1	The page number of the returned page. The value must be an integer that is greater than 0. Default value: 1.
Items	Array of LogRecords		Details about the slow query logs.
LogRecords			
ExecutionStartTime	String	2019-02-25T01:41:28Z	The start time of the operation. The time is in the yyyy-MM-ddTHH:mm:ssZ format. The time is displayed in UTC.
HostAddress	String	192.168.XX.XX	The host IP address that is used to connect to the database.
QueryTimes	String	600	The execution time of the statement. Unit: milliseconds.
TableName	String	C1	The name of the collection.
SQLText	String	<pre>{ "op": "query", "ns": "mongodbtest.customer", "query": { "find": "customer", "filter": { "name": "jack" } } }</pre>	The SQL statement that is executed during the slow operation.

Parameter	Type	Example	Description
ReturnRowCounts	Long	0	The number of entries returned.
KeysExamined	Long	0	The data entries that are scanned during indexing.
DBName	String	mongodbtest	The name of the database.
DocsExamined	Long	1000000	The number of documents that are scanned during the operation.
AccountName	String	root	The username of the database account that performs the operation.
Engine	String	MongoDB	The database engine.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeSlowLogRecords  
&DBInstanceId=dds-bp1366caac83****  
&StartTime=2021-08-15T14:13Z  
&EndTime=2021-08-16T14:13Z  
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeSlowLogRecordsResponse>
  <TotalRecordCount>1</TotalRecordCount>
  <PageRecordCount>1</PageRecordCount>
  <RequestId>8076C4BA-DDBD-529C-BFF4-D8620C3F****</RequestId>
  <PageNumber>1</PageNumber>
  <Items>
    <LogRecords>
      <TableName>$cmd</TableName>
      <QueryTimes>944</QueryTimes>
      <ExecutionStartTime>2021-08-15T21:08:36Z</ExecutionStartTime>
      <DBName>admin</DBName>
      <HostAddress>11.61.195.204</HostAddress>
      <SQLText>{"op":"command","ns":"admin.$cmd","command":{"isMaster":1,"client":{"driver":{"name":"mgo","version":"vinllen"},"os":{"type":"linux","architecture":"amd64"}}, "$readPreference":{"mode":"secondaryPreferred"}, "$db":"admin"}, "numYield":0,"locks":{},"flowControl":{},"responseLength":748,"protocol":"op_query","millis":944,"replRole":{"stateStr":"SECONDARY","_id":1}}</SQLText>
    </LogRecords>
  </Items>
  <Engine>MongoDB</Engine>
</DescribeSlowLogRecordsResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "TotalRecordCount" : 1,
  "PageRecordCount" : 1,
  "RequestId" : "8076C4BA-DDBD-529C-BFF4-D8620C3F****",
  "PageNumber" : 1,
  "Items" : {
    "LogRecords" : [ {
      "TableName" : "$cmd",
      "QueryTimes" : 944,
      "ExecutionStartTime" : "2021-08-15T21:08:36Z",
      "DBName" : "admin",
      "HostAddress" : "11.61.195.204",
      "SQLText" : "{\"op\":\"command\",\"ns\":\"admin.$cmd\",\"command\":{\"isMaster\":1,\"client\":{\"driver\":{\"name\":\"mgo\",\"version\":\"vinllen\"},\"os\":{\"type\":\"linux\"}, \"architecture\":\"amd64\"}}, \"$readPreference\":{\"mode\":\"secondaryPreferred\"}, \"$db\":\"admin\"}, \"numYield\":0,\"locks\":{},\"flowControl\":{},\"responseLength\":748,\"protocol\":\"op_query\"}, \"millis\":944,\"replRole\":{\"stateStr\":\"SECONDARY\",\"_id\":1}}"
    } ],
    "Engine" : "MongoDB"
  }
```

Error codes

For a list of error codes, visit the [API Error Center](#).

19.2. DescribeErrorLogRecords

Queries entries in error logs of an ApsaraDB for MongoDB instance.

- This operation is applicable only to **general-purpose local-disk** and **dedicated local-disk** instances.
- You can call this operation up to 30 times per minute. To call this operation at a higher frequency, use a Logstore. For more information, see [Manage a Logstore](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeErrorLogRecords	The operation that you want to perform. Set the value to DescribeErrorLogRecords .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of the instance.
DBInstanceId	String	Yes	dds-bp12c5b040dc*** *	The ID of the instance. Note If you set this parameter to the ID of a sharded cluster instance, you must also specify the NodeId parameter.
NodeId	String	No	d-bp128a003436*** *	The ID of the mongos node or shard node whose error logs you want to query in the instance. If the instance is a sharded cluster instance, you must specify this parameter. Note This parameter is valid only when DBInstanceId is set to the ID of a sharded cluster instance.

Parameter	Type	Required	Example	Description
RoleType	String	No	primary	<p>The role of the node whose error logs you want to query in the instance. Valid values:</p> <ul style="list-style-type: none"> • primary • secondary <div style="background-color: #e0f2ff; padding: 10px;"> ? Note If you set the NodeId parameter to the ID of a mongos node, the RoleType parameter must be set to primary. </div>
StartTime	String	Yes	2019-01-01T12:10Z	The beginning of the time range to query. Specify the time in the <i>yyyy-MM-ddT HH:mmZ</i> format. The time must be in UTC.
EndTime	String	Yes	2019-01-02T12:10Z	The end of the time range to query. The end time must be later than the start time and within 24 hours from the start time. Specify the time in the <i>yyyy-MM-ddT HH:mmZ</i> format. The time must be in UTC.
DBName	String	No	mongodbtest	The name of the database.
PageSize	Integer	No	30	The number of entries to return on each page. Valid values: 30 to 100 .
PageNumber	Integer	No	1	The number of the page to return. The value must be an integer that is greater than 0. Default value: 1.
ResourceGroupId	String	No	rg-acfmyiu4ekp****	The ID of the resource group. For more information, see View basic information of a resource group .

Response parameters

Parameter	Type	Example	Description
TotalRecordCount	Integer	1	The total number of entries.

Parameter	Type	Example	Description
PageRecordCount	Integer	1	The number of entries returned per page.
RequestId	String	68BCBEC2-1E66-471F-A1A8-E3C60C0A80B0	The ID of the request.
PageNumber	Integer	1	The page number of the returned page.
Items	Array of LogRecords		Details about the log entries returned.
LogRecords			
ConnInfo	String	conn18xxxxxx	The connection information of the log entry.
CreateTime	String	2019-02-26T12:09:34Z	The time when the log entry was generated. The time is in the <i>yyyy-MM-ddT HH:mm:ssZ</i> format. The time is displayed in UTC.
Category	String	NETWORK	<p>The category of the log entry. Valid values:</p> <ul style="list-style-type: none"> • NETWORK: network connection log • ACCESS: access control log • -: general log • COMMAND: slow query log • SHARDING: sharded cluster log • STORAGE: storage engine log • CONNPOOL: connection pool log • ASIO: asynchronous I/O operation log • WRITE: slow update log
Content	String	xxxxxxxx	The content of the log entry.
Id	Integer	1111111111	The ID of the log entry.
Engine	String	MongoDB	The database engine.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeErrorLogRecords  
&StartTime=2019-01-01T12:10Z  
&EndTime=2019-01-02T12:10Z  
&DBInstanceId=dds-bp12c5b040dc****  
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK  
Content-Type:application/xml  
<?xml version="1.0" encoding="UTF-8" ?>  
<DescribeErrorLogRecordsResponse>  
<Items>  
<LogRecords>  
<Category>NETWORK</Category>  
<CreateTime>2019-02-26T12:09:34Z</CreateTime>  
<ConnInfo>conn18xxxxxx</ConnInfo>  
<Content>xxxxxxxx</Content>  
</LogRecords>  
</Items>  
<PageNumber>1</PageNumber>  
<TotalRecordCount>2</TotalRecordCount>  
<RequestId>68BCBEC2-1E66-471F-A1A8-E3C60C0A80B0</RequestId>  
</DescribeErrorLogRecordsResponse>
```

JSON format

```
HTTP/1.1 200 OK  
Content-Type:application/json  
{  
    "Items" : {  
        "LogRecords" : [ {  
            "Category" : "NETWORK",  
            "CreateTime" : "2019-02-26T12:09:34Z",  
            "ConnInfo" : "conn18xxxxxx",  
            "Content" : "xxxxxxxx"  
        } ]  
    },  
    "PageNumber" : 1,  
    "TotalRecordCount" : 2,  
    "RequestId" : "68BCBEC2-1E66-471F-A1A8-E3C60C0A80B0"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

19.3. DescribeRunningLogRecords

Queries entries in operational logs of an ApsaraDB for MongoDB instance.

- This operation is applicable only to **general-purpose local-disk** and **dedicated local-disk** instances.
- You can call this operation up to 30 times per minute. To call this operation at a higher frequency, use a Logstore. For more information, see [Manage a Logstore](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeRunningLogRecords	The operation that you want to perform. Set the value to DescribeRunningLogRecords .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of the instance.
DBInstanceId	String	Yes	dds-bpxxxxxxx	The ID of the instance. <div style="background-color: #e0f2ff; padding: 10px; border-radius: 5px;">Note If you set this parameter to the ID of a sharded cluster instance, you must also specify the NodeId parameter.</div>
NodeId	String	No	d-bpxxxxxxx	The ID of the mongos node or shard node whose operational logs you want to query in the instance. If the instance is a sharded cluster instance, you must specify this parameter. <div style="background-color: #e0f2ff; padding: 10px; border-radius: 5px;">Note This parameter is valid only when DBInstanceId is set to the ID of a sharded cluster instance.</div>
StartTime	String	Yes	2019-01-01T12:10Z	The beginning of the time range to query. Specify the time in the <i>yyyy-MM-ddTHH:mmZ</i> format. The time must be in UTC.

Parameter	Type	Required	Example	Description
EndTime	String	Yes	2019-01-01T13:10Z	<p>The end of the time range to query. Specify the time in the <i>yyy-MM-ddT HH:mmZ</i> format. The time must be in UTC.</p> <div style="background-color: #e1f5fe; padding: 10px;"> ? Note The end time must be later than the start time and within 24 hours from the start time. Otherwise, the query fails. </div>
DBName	String	No	mongodbtest	The name of the database.
RoleType	String	No	primary	<p>The role of the node whose error logs you want to query in the instance. Valid values:</p> <ul style="list-style-type: none"> • primary • secondary <div style="background-color: #e1f5fe; padding: 10px;"> ? Note If you set the NodeId parameter to the ID of a mongos node, the RoleType parameter must be set to primary. </div>
PageSize	Integer	No	30	The number of entries to return on each page. Valid values: 30 to 100 .
PageNumber	Integer	No	1	The number of the page to return. The value must be an integer that is greater than 0. Default value: 1.
OrderType	String	No	asc	<p>The order of time in which the operational log entries to return are sorted. Valid values:</p> <ul style="list-style-type: none"> • asc: The log entries are sorted by time in ascending order. • desc: The log entries are sorted by time in descending order.
ResourceGroupId	String	No	sg-bpxxxxxxxxxxxxxxx xxxx	The ID of the resource group.

Parameter	Type	Required	Example	Description
RoleId	String	No	651xxxx	The role ID of the node. You can call the DescribeReplicaSetRole operation to query the role ID.

Response parameters

Parameter	Type	Example	Description
TotalRecordCount	Integer	2	The total number of entries.
PageRecordCount	Integer	30	The number of entries returned per page.
RequestId	String	45D2B592-DEBA-4347-BBF3-47FF6C97DBBC	The ID of the request.
PageNumber	Integer	1	The number of the page to return.
Items	Array of LogRecords		Details about the operational log entries.
LogRecords			
ConnInfo	String	conn18xxxxxx	The connection information of the log entry.
CreateTime	String	2019-02-26T12:09:34Z	The time when the log entry was generated. The time is in the <code>yyyy-MM-ddT HH:mm:ssZ</code> format. The time is displayed in UTC.
Category	String	NETWORK	The category of the log entry. Valid values:
Content	String	end connection 11.xxx.xxx.xx:3xxxx (0 connections now open)\n	The content of the log entry.
Id	Integer	1111111111	The ID of the log entry.
Engine	String	MongoDB	The database engine.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeRunningLogRecords  
&StartTime=2019-01-01T12:10Z  
&EndTime=2019-01-01T13:10Z  
&DBInstanceId=dds-bpxxxxxxx  
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK  
Content-Type:application/xml  
<?xml version="1.0" encoding="UTF-8" ?>  
<DescribeRunningLogRecordsResponse>  
<Items>  
<LogRecords>  
<Category>-</Category>  
<CreateTime>2019-02-26T12:09:34Z</CreateTime>  
<ConnInfo>conn18xxxxxx</ConnInfo>  
<Content>  
end connection 11.xxx.xxx.xx:3xxxx (0 connections now open)  
</Content>  
</LogRecords>  
<LogRecords>  
<Category>NETWORK</Category>  
<CreateTime>2019-02-26T12:09:34Z</CreateTime>  
<ConnInfo>thread1</ConnInfo>  
<Content>connection accepted from 11.xxx.xxx.xx:3xxxx #1862051 (11 connections now open)  
</Content>  
</LogRecords>  
</Items>  
<PageNumber>1</PageNumber>  
<TotalRecordCount>2</TotalRecordCount>  
<RequestId>45D2B592-DEBA-4347-BBF3-47FF6C97DBBC</RequestId>  
</DescribeRunningLogRecordsResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "Items" : [
    "LogRecords" : [ {
      "Category" : "-",
      "CreateTime" : "2019-02-26T12:09:34Z",
      "ConnInfo" : "conn18xxxxxx",
      "Content" : "end connection 11.xxx.xxx.xx:3xxxx (0 connections now open)\n"
    }, {
      "Category" : "NETWORK",
      "CreateTime" : "2019-02-26T12:09:34Z",
      "ConnInfo" : "thread1",
      "Content" : "connection accepted from 11.xxx.xxx.xx:3xxxx #1862051 (11 connections no
w open)"
    } ]
  },
  "PageNumber" : 1,
  "TotalRecordCount" : 2,
  "RequestId" : "45D2B592-DEBA-4347-BBF3-47FF6C97DBBC"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

20. Performance monitoring management

20.1. DescribeDBInstancePerformance

Queries the performance data of an ApsaraDB for MongoDB instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDBInstancePerformance	The operation that you want to perform. Set the value to DescribeDBInstancePerformance.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.
DBInstanceId	String	Yes	dds-bp2635****	<p>The ID of the instance.</p> <p>Note If you set this parameter to the ID of a sharded cluster instance, you must also specify the NodeId parameter.</p>
NodeId	String	No	d-bp2287****	<p>The ID of the mongos or shard node in a sharded cluster instance. You can specify this parameter to view the performance data of a single node.</p> <p>Note This parameter is valid only when DBInstanceId is set to the ID of a sharded cluster instance.</p>

Parameter	Type	Required	Example	Description
Key	String	Yes	CpuUsage	<p>The performance metric. For more information about valid values, see Performance metrics.</p> <div style="background-color: #e1f5fe; padding: 10px;"> ? Note If you specify multiple metrics, separate them with commas (,).</div>
StartTime	String	Yes	2022-06-13T10:58Z	The beginning of the time range to query. Specify the time in the <code>yyyy-MM-ddT HH:mmZ</code> format. The time must be in UTC.
EndTime	String	Yes	2022-06-13T11:58Z	The end of the time range to query. The end time must be later than the start time. Specify the time in the <code>yyyy-MM-ddT HH:mmZ</code> format. The time must be in UTC.
RoleId	String	No	6025****	<p>The role ID of a node in a instance. You can call the DescribeReplicaSetRole operation to query role IDs.</p> <div style="background-color: #e1f5fe; padding: 10px;"> ? Note This parameter is valid only when you specify the <code>DBInstanceId</code> parameter to the ID of a standalone instance or a replica set instance.</div>
ReplicaSetRole	String	No	Primary	<p>The role of the node. Valid values:</p> <ul style="list-style-type: none"> • Primary • Secondary <div style="background-color: #e1f5fe; padding: 10px;"> ? Note If you set the <code>DBInstanceId</code> parameter to the ID of a standalone instance, the value of this parameter can only be Primary.</div>

Response parameters

Parameter	Type	Example	Description
PerformanceKeys	Array of PerformanceKey		Details about the performance metrics.
PerformanceKey			
Key	String	CpuUsage	The performance metric.
Unit	String	%	The unit of the performance metric.
ValueFormat	String	cpu_usage	<p>The format of the performance metric value. If the performance metric contains multiple fields, the fields are separated with the & symbol.</p> <p>For example, if you query disk usage, the returned ValueFormat value is <code>ins_size&data_size&log_size</code>.</p>
PerformanceValues	Array of PerformanceValue		Details about the performance metric values.
PerformanceValue			
Value	String	0.23	The value of a performance metric.
Date	String	2022-06-13T10:58:00Z	The date and time when the metric value was generated.
EndTime	String	2022-06-13T11:58Z	The end of the time range to query. The time follows the ISO 8601 standard in the <code>yyyy-MM-ddT HH:mmZ</code> format. The time is displayed in UTC.
RequestId	String	4A300BC7-6D8F-527F-A2DB-A7768D26E9AC	The ID of the request.
StartTime	String	2022-06-13T10:58Z	The beginning of the time range to query. The time follows the ISO 8601 standard in the <code>yyyy-MM-ddT HH:mmZ</code> format. The time is displayed in UTC.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeDBInstancePerformance
&DBInstanceId=dds-bp2635****
&Key=CpuUsage
&StartTime=2022-06-13T10:58Z
&EndTime=2022-06-13T11:58Z
&Common request parameters
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeDBInstancePerformanceResponse>
    <PerformanceKeys>
        <PerformanceKey>
            <ValueFormat>cpu_usage</ValueFormat>
            <PerformanceValues>
                <PerformanceValue>
                    <Value>0.23</Value>
                    <Date>2022-06-13T10:58:00Z</Date>
                </PerformanceValue>
                <PerformanceValue>
                    <Value>0.23</Value>
                    <Date>2022-06-13T10:59:00Z</Date>
                </PerformanceValue>
                <PerformanceValue>
                    <Value>0.22</Value>
                    <Date>2022-06-13T11:00:00Z</Date>
                </PerformanceValue>
                <PerformanceValue>
                    <Value>0.23</Value>
                    <Date>2022-06-13T11:01:00Z</Date>
                </PerformanceValue>
                <PerformanceValue>
                    <Value>0.24</Value>
                    <Date>2022-06-13T11:02:00Z</Date>
                </PerformanceValue>
                <PerformanceValue>
                    <Value>0.23</Value>
                    <Date>2022-06-13T11:03:00Z</Date>
                </PerformanceValue>
                <PerformanceValue>
                    <Value>0.23</Value>
                    <Date>2022-06-13T11:04:00Z</Date>
                </PerformanceValue>
                <PerformanceValue>
                    <Value>0.23</Value>
                    <Date>2022-06-13T11:05:00Z</Date>
                </PerformanceValue>
            </PerformanceValues>
        </PerformanceKey>
    </PerformanceKeys>
</DescribeDBInstancePerformanceResponse>
```

```
<PerformanceValue>
    <Value>0.23</Value>
    <Date>2022-06-13T11:06:00Z</Date>
</PerformanceValue>
<PerformanceValue>
    <Value>0.24</Value>
    <Date>2022-06-13T11:07:00Z</Date>
</PerformanceValue>
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</PerformanceValue>
<PerformanceValue>
    <Value>0.24</Value>
    <Date>2022-06-13T11:09:00Z</Date>
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</PerformanceValue>
<PerformanceValue>
    <Value>0.23</Value>
    <Date>2022-06-13T11:16:00Z</Date>
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    <Value>0.24</Value>
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    <Date>2022-06-13T11:18:00Z</Date>
</PerformanceValue>
<PerformanceValue>
    <Value>0.22</Value>
    <Date>2022-06-13T11:19:00Z</Date>
```

```
</PerformanceValue>
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    <Date>2022-06-13T11:20:00Z</Date>
</PerformanceValue>
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    <Date>2022-06-13T11:23:00Z</Date>
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<PerformanceValue>
    <Value>0.23</Value>
    <Date>2022-06-13T11:24:00Z</Date>
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    <Date>2022-06-13T11:27:00Z</Date>
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<PerformanceValue>
    <Value>0.23</Value>
    <Date>2022-06-13T11:31:00Z</Date>
</PerformanceValue>
<PerformanceValue>
    <Value>0.24</Value>
    <Date>2022-06-13T11:32:00Z</Date>
</PerformanceValue>
<PerformanceValue>
```

```
<Value>0.23</Value>
<Date>2022-06-13T11:33:00Z</Date>
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</PerformanceValue>
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```

```
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<PerformanceValue>
    <Value>0.23</Value>
    <Date>2022-06-13T11:47:00Z</Date>
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    <Value>0.24</Value>
    <Date>2022-06-13T11:48:00Z</Date>
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</PerformanceValue>
<PerformanceValue>
    <Value>0.23</Value>
    <Date>2022-06-13T11:55:00Z</Date>
</PerformanceValue>
<PerformanceValue>
    <Value>0.23</Value>
    <Date>2022-06-13T11:56:00Z</Date>
</PerformanceValue>
<PerformanceValue>
    <Value>0.23</Value>
    <Date>2022-06-13T11:57:00Z</Date>
</PerformanceValue>
</PerformanceValues>
<Unit>%</Unit>
<Key>CpuUsage</Key>
</PerformanceKey>
</PerformanceKeys>
<RequestId>4A300BC7-6D8F-527F-A2DB-A7768D26E9AC</RequestId>
<EndTime>2022-06-13T11:58Z</EndTime>
<StartTime>2022-06-13T10:58Z</StartTime>
</DescribeDBInstancePerformanceResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "PerformanceKeys" : {
    "PerformanceKey" : {
      "ValueFormat" : "cpu_usage",
      "PerformanceValues" : {
        "PerformanceValue" : [ {
          "Value" : 0.23,
          "Date" : "2022-06-13T10:58:00Z"
        }, {
          "Value" : 0.23,
          "Date" : "2022-06-13T10:59:00Z"
        }, {
          "Value" : 0.22,
          "Date" : "2022-06-13T11:00:00Z"
        }, {
          "Value" : 0.23,
          "Date" : "2022-06-13T11:01:00Z"
        }, {
          "Value" : 0.24,
          "Date" : "2022-06-13T11:02:00Z"
        }, {
          "Value" : 0.23,
          "Date" : "2022-06-13T11:03:00Z"
        }, {
          "Value" : 0.23,
          "Date" : "2022-06-13T11:04:00Z"
        }, {
          "Value" : 0.23,
          "Date" : "2022-06-13T11:05:00Z"
        }, {
          "Value" : 0.23,
          "Date" : "2022-06-13T11:06:00Z"
        }, {
          "Value" : 0.24,
          "Date" : "2022-06-13T11:07:00Z"
        }, {
          "Value" : 0.23,
          "Date" : "2022-06-13T11:08:00Z"
        }, {
          "Value" : 0.24,
          "Date" : "2022-06-13T11:09:00Z"
        }, {
          "Value" : 0.23,
          "Date" : "2022-06-13T11:10:00Z"
        }, {
          "Value" : 0.23,
          "Date" : "2022-06-13T11:11:00Z"
        }, {
          "Value" : 0.24,
          "Date" : "2022-06-13T11:12:00Z"
        }
      }
    }
  }
}
```

```
}, {
    "Value" : 0.24,
    "Date" : "2022-06-13T11:13:00Z"
}, {
    "Value" : 0.23,
    "Date" : "2022-06-13T11:14:00Z"
}, {
    "Value" : 0.24,
    "Date" : "2022-06-13T11:15:00Z"
}, {
    "Value" : 0.23,
    "Date" : "2022-06-13T11:16:00Z"
}, {
    "Value" : 0.24,
    "Date" : "2022-06-13T11:17:00Z"
}, {
    "Value" : 0.23,
    "Date" : "2022-06-13T11:18:00Z"
}, {
    "Value" : 0.22,
    "Date" : "2022-06-13T11:19:00Z"
}, {
    "Value" : 0.22,
    "Date" : "2022-06-13T11:20:00Z"
}, {
    "Value" : 0.23,
    "Date" : "2022-06-13T11:21:00Z"
}, {
    "Value" : 0.23,
    "Date" : "2022-06-13T11:22:00Z"
}, {
    "Value" : 0.23,
    "Date" : "2022-06-13T11:23:00Z"
}, {
    "Value" : 0.23,
    "Date" : "2022-06-13T11:24:00Z"
}, {
    "Value" : 0.23,
    "Date" : "2022-06-13T11:25:00Z"
}, {
    "Value" : 0.23,
    "Date" : "2022-06-13T11:26:00Z"
}, {
    "Value" : 0.23,
    "Date" : "2022-06-13T11:27:00Z"
}, {
    "Value" : 0.23,
    "Date" : "2022-06-13T11:28:00Z"
}, {
    "Value" : 0.23,
    "Date" : "2022-06-13T11:29:00Z"
}, {
    "Value" : 0.23,
    "Date" : "2022-06-13T11:30:00Z"
}, {
```

```
        "Value" : 0.23,
        "Date" : "2022-06-13T11:31:00Z"
    }, {
        "Value" : 0.24,
        "Date" : "2022-06-13T11:32:00Z"
    }, {
        "Value" : 0.23,
        "Date" : "2022-06-13T11:33:00Z"
    }, {
        "Value" : 0.23,
        "Date" : "2022-06-13T11:34:00Z"
    }, {
        "Value" : 0.23,
        "Date" : "2022-06-13T11:35:00Z"
    }, {
        "Value" : 0.23,
        "Date" : "2022-06-13T11:36:00Z"
    }, {
        "Value" : 0.24,
        "Date" : "2022-06-13T11:37:00Z"
    }, {
        "Value" : 0.24,
        "Date" : "2022-06-13T11:38:00Z"
    }, {
        "Value" : 0.24,
        "Date" : "2022-06-13T11:39:00Z"
    }, {
        "Value" : 0.23,
        "Date" : "2022-06-13T11:40:00Z"
    }, {
        "Value" : 0.23,
        "Date" : "2022-06-13T11:41:00Z"
    }, {
        "Value" : 0.24,
        "Date" : "2022-06-13T11:42:00Z"
    }, {
        "Value" : 0.23,
        "Date" : "2022-06-13T11:43:00Z"
    }, {
        "Value" : 0.23,
        "Date" : "2022-06-13T11:44:00Z"
    }, {
        "Value" : 0.23,
        "Date" : "2022-06-13T11:45:00Z"
    }, {
        "Value" : 0.23,
        "Date" : "2022-06-13T11:46:00Z"
    }, {
        "Value" : 0.23,
        "Date" : "2022-06-13T11:47:00Z"
    }, {
        "Value" : 0.24,
        "Date" : "2022-06-13T11:48:00Z"
    }, {
```

```
        "Value" : 0.24,
        "Date" : "2022-06-13T11:49:00Z"
    }, {
        "Value" : 0.23,
        "Date" : "2022-06-13T11:50:00Z"
    }, {
        "Value" : 0.24,
        "Date" : "2022-06-13T11:51:00Z"
    }, {
        "Value" : 0.23,
        "Date" : "2022-06-13T11:52:00Z"
    }, {
        "Value" : 0.23,
        "Date" : "2022-06-13T11:53:00Z"
    }, {
        "Value" : 0.23,
        "Date" : "2022-06-13T11:54:00Z"
    }, {
        "Value" : 0.23,
        "Date" : "2022-06-13T11:55:00Z"
    }, {
        "Value" : 0.23,
        "Date" : "2022-06-13T11:56:00Z"
    }, {
        "Value" : 0.23,
        "Date" : "2022-06-13T11:57:00Z"
    } ]
},
"Unit" : "%",
"Key" : "CpuUsage"
},
"RequestId" : "4A300BC7-6D8F-527F-A2DB-A7768D26E9AC",
"EndTime" : "2022-06-13T11:58Z",
"StartTime" : "2022-06-13T10:58Z"
}
```

Error codes

HTTP status code	Error code	Error message	Description
400	InvalidStartTimeAndEndTimeMalformed	The end time must be greater than the start time	The error message returned because the end time cannot be earlier than the start time.

For a list of error codes, visit the [API Error Center](#).

20.2. ModifyDBInstanceMonitor

You can call this operation to set the monitoring granularity for a ApsaraDB for MongoDB instance.

? Note operation is currently unavailable.

Before you call this operation, make sure that the following requirements are met:

- A replica set or sharded cluster instance is used.
- MongoDB 3.4 (the latest minor version) or 4.0 must be selected.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyDBInstanceMonitor	The operation that you want to perform. Set the value to ModifyDBInstanceTDE .
DBInstanceId	String	Yes	dds-bpxxxxxxxx	The ID of the instance.
Granularity	String	Yes	1	The collection frequency of monitoring data. Valid values: 1 or 300 . Unit: seconds.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	EFD65226-08CC-4C4D-B6A4-CB3C382F67B0	The ID of the request.

Examples

Sample request

```
http(s)://mongodb.aliyuncs.com/? Action=ModifyDBInstanceMonitor
&DBInstanceId=dds-bpxxxxxxxx
&Granularity=1
&<Common request parameters>
```

Sample success responses

XML format

```
<ModifyDBInstanceMonitorResponse>
    <RequestId>EFD65226-08CC-4C4D-B6A4-CB3C382F67B0</RequestId>
</ModifyDBInstanceMonitorResponse>
```

JSON format

```
{
    "RequestId": "EFD65226-08CC-4C4D-B6A4-CB3C382F67B0"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

20.3. DescribeDBInstanceMonitor

You can call this operation to query the collection frequency of monitoring data for an ApsaraDB for MongoDB instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeDBInstanceMonitor	The operation that you want to perform. Set the value to DescribeDBInstanceMonitor .
DBInstanceId	String	Yes	dds-bpxxxxxxx	The ID of the instance.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
Granularity	String	1	The collection frequency of monitoring data. The value is 1 or 300. Unit: seconds.

Parameter	Type	Example	Description
RequestId	String	EFD65226-08CC-4C4D-B6A4-CB3C382F67B0	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=DescribeDBInstanceMonitor
&DBInstanceId=dds-bpxxxxxxxx
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeDBInstanceMonitorResponse>
  <Granularity>1</Granularity>
  <RequestId>EFD65226-08CC-4C4D-B6A4-CB3C382F67B0</RequestId>
</DescribeDBInstanceMonitorResponse>
```

JSON format

```
{
  "Granularity": 1,
  "RequestId": "EFD65226-08CC-4C4D-B6A4-CB3C382F67B0"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

21. Parameter management

21.1.

DescribeParameterModificationHistory

Queries the parameter modification records of an ApsaraDB for MongoDB instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeParameterModificationHistory	The operation that you want to perform. Set the value to DescribeParameterModificationHistory .
RegionId	String	No	cn-hangzhou	The region ID the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of the instance.
DBInstanceId	String	Yes	dds-bp2235****	The ID of the instance. Note If you set this parameter to the ID of a sharded cluster instance, you must also specify the Nodeld parameter.
Nodeld	String	No	d-bp1158****	The ID of the mongos node or shard node whose parameter modification records you want to query in the instance. If the instance is a sharded cluster instance, you must specify this parameter. Note This parameter is valid only when DBInstanceId is set to the ID of a sharded cluster instance.

Parameter	Type	Required	Example	Description
StartTime	String	Yes	2019-01-01T12:10:10Z	The beginning of the time range to query. The time follows the ISO 8601 standard in the <code>yyyy-MM-ddT HH:mm:ssZ</code> format. The time is displayed in UTC.
EndTime	String	Yes	2019-01-02T12:10:10Z	The end of the time range to query. The end time must be later than the start time. Specify the time in the <code>yyyy-MM-ddT HH:mm:ssZ</code> format. The time must be in UTC.
CharacterType	String	No	mongos	The role of the instance. Valid values: <ul style="list-style-type: none">• db: shard• cs: Configserver• mongos: mongos• logic: sharded cluster instance

Response parameters

Parameter	Type	Example	Description
RequestId	String	B1BB6E0E-B4EF-4145-81FA-A07719860248	The ID of the request.
HistoricalParameters	Array of HistoricalParameter		Details about the parameter modification records.
HistoricalParameter			
ParameterName	String	operationProfilingslowOpThresholdMs	The name of the modified parameter.
OldParameterValue	String	100	The parameter value before modification.
NewParameterValue	String	200	The parameter value after modification.

Parameter	Type	Example	Description
ModifyTime	String	2019-03-12T07:58:24Z	The time when the parameter was modified. The time follows the ISO 8601 standard in the <code>yyyy-MM-ddT HH:mm:ssZ</code> format. The time is displayed in UTC.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeParameterModificationHistory
&DBInstanceId=dds-bp2235****
&NodeId=d-bp1158****
&StartTime=2019-01-01T12:10:10Z
&EndTime=2019-01-02T12:10:10Z
&CharacterType=mongos
&Common request parameters
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeParameterModificationHistoryResponse>
    <RequestId>B1BB6E0E-B4EF-4145-81FA-A07719860248</RequestId>
    <HistoricalParameters>
        <ParameterName>operationProfiling.slowOpThresholdMs</ParameterName>
        <OldParameterValue>100</OldParameterValue>
        <NewParameterValue>200</NewParameterValue>
        <ModifyTime>2019-03-12T07:58:24Z</ModifyTime>
    </HistoricalParameters>
</DescribeParameterModificationHistoryResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
    "RequestId" : "B1BB6E0E-B4EF-4145-81FA-A07719860248",
    "HistoricalParameters" : [ {
        "ParameterName" : "operationProfiling.slowOpThresholdMs",
        "OldParameterValue" : "100",
        "NewParameterValue" : "200",
        "ModifyTime" : "2019-03-12T07:58:24Z"
    } ]
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

21.2. DescribeParameters

You can call this operation to query parameter configurations of an ApsaraDB for MongoDB instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeParameters	The operation that you want to perform. Set the value to DescribeParameters .
DBInstanceId	String	Yes	dds-bpxxxxxxx	The ID of the instance. <div style="background-color: #e0f2ff; padding: 10px; border-radius: 5px;">Note If you set this parameter to the ID of a sharded cluster instance, you must also specify the NodeId parameter.</div>
NodeId	String	No	d-bpxxxxxxx	The ID of the mongos or shard in the specified sharded cluster instance. <div style="background-color: #e0f2ff; padding: 10px; border-radius: 5px;">Note This parameter is valid only if you set the DBInstanceId parameter to the ID of a sharded cluster instance.</div>
CharacterType	String	No	mongos	The type of the database account. Valid values: <ul style="list-style-type: none">• mongos: an account that can be used to log on to mongos• shard: an account that can be used to log on to shards

Response parameters

Parameter	Type	Example	Description
ConfigParameters	Array		The list of instance parameters in the configuration template.
Parameter			
CheckingCode	String	[0-65536]	The valid values of the parameter.
ForceRestart	Boolean	true	<p>Indicates whether a restart is required for parameter modifications to take effect.</p> <ul style="list-style-type: none">• false: A restart is not required. Modifications take effect immediately.• true: A restart is required for modifications to take effect.
ModifiableStatus	Boolean	true	<p>Indicates whether the parameter is modifiable.</p> <ul style="list-style-type: none">• false: The parameter is not modifiable.• true: The parameter is modifiable.
ParameterDescription	String	The threshold in milliseconds at which the database profiler considers a query slow, default is 100.	The description of the parameter.
ParameterName	String	operationProfiling.slowOpThresholdMs	The name of the parameter.
ParameterValue	String	200	The value of the parameter.
RequestId	String	3ADD0C7D-2D2A-4F15-88FF-E7AC9B9FDCC8	The ID of the request.
RunningParameters	Array		The list of instance parameters that have taken effect.
Parameter			
CheckingCode	String	[33554432-268435456]	The valid values of the parameter.

Parameter	Type	Example	Description
ForceRestart	String	false	<p>Indicates whether a restart is required for parameter modifications to take effect.</p> <ul style="list-style-type: none"> • false: A restart is not required. Modifications take effect immediately. • true: A restart is required for modifications to take effect.
ModifiableStatus	String	true	<p>Indicates whether the parameter is modifiable.</p> <ul style="list-style-type: none"> • false: The parameter is not modifiable. • true: The parameter is modifiable.
ParameterDescription	String	The maximum memory bytes that sort stage may use, default is 33554432(i.e. 32MB)	The description of the parameter.
ParameterName	String	setParameter.internalQueryExecMaxBloatingSortBytes	The name of the parameter.
ParameterValue	String	33554432	The value of the parameter.
EngineVersion	String	4.0	The version number of the database.
Engine	String	mongodb	The database engine. Default value: mongodb .

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeParameters
&DBInstanceId=dds-bpxxxxxxxx
&<Common request parameters>
```

Sample success responses

XML format

```
<DescribeParametersResponse>
    <ConfigParameters>
        <Parameter>
            <ParameterDescription>The threshold in milliseconds at which the database profiler considers a query slow, default is 100. </ParameterDescription>
            <ParameterValue>200</ParameterValue>
```

```
<CheckingCode>[0-65536]</CheckingCode>
<ForceRestart>false</ForceRestart>
<ModifiableStatus>true</ModifiableStatus>
<ParameterName>operationProfiling.slowOpThresholdMs</ParameterName>
</Parameter>
</ConfigParameters>
<RequestId>3ADD0C7D-2D2A-4F15-88FF-E7AC9B9FDCC8</RequestId>
<RunningParameters>
<Parameter>
    <ParameterDescription></ParameterDescription>
    <ParameterValue>zlib</ParameterValue>
    <CheckingCode>snappy|zlib|disabled</CheckingCode>
    <ForceRestart>true</ForceRestart>
    <ModifiableStatus>true</ModifiableStatus>
    <ParameterName>net.compression.compressors</ParameterName>
</Parameter>
<Parameter>
    <ParameterDescription>The level of database profiling, which inserts information about operation performance into the system.profile collection. 'off' for no profiling, 'slowOp' for only includes slow operations, 'all' for includes all operations, default is 'slowOp'. </ParameterDescription>
    <ParameterValue>slowOp</ParameterValue>
    <CheckingCode>off|slowOp|all</CheckingCode>
    <ForceRestart>false</ForceRestart>
    <ModifiableStatus>true</ModifiableStatus>
    <ParameterName>operationProfiling.mode</ParameterName>
</Parameter>
<Parameter>
    <ParameterDescription>The threshold in milliseconds at which the database profiler considers a query slow, default is 100. </ParameterDescription>
    <ParameterValue>220</ParameterValue>
    <CheckingCode>[0-65536]</CheckingCode>
    <ForceRestart>false</ForceRestart>
    <ModifiableStatus>true</ModifiableStatus>
    <ParameterName>operationProfiling.slowOpThresholdMs</ParameterName>
</Parameter>
<Parameter>
    <ParameterDescription>The expiration threshold in milliseconds for idle cursors before MongoDB removes them; i.e. MongoDB removes cursors that have been idle for the specified cursorTimeoutMillis. default is 600000(i.e. 10 minutes)</ParameterDescription>
    <ParameterValue>600000</ParameterValue>
    <CheckingCode>[1-2147483647]</CheckingCode>
    <ForceRestart>false</ForceRestart>
    <ModifiableStatus>true</ModifiableStatus>
    <ParameterName>setParameter.cursorTimeoutMillis</ParameterName>
</Parameter>
<Parameter>
    <ParameterDescription>The maximum memory bytes that sort stage may use, default is 33554432(i.e. 32MB)</ParameterDescription>
    <ParameterValue>33554432</ParameterValue>
    <CheckingCode>[33554432-268435456]</CheckingCode>
    <ForceRestart>false</ForceRestart>
    <ModifiableStatus>true</ModifiableStatus>
    <ParameterName>setParameter.internalQueryExecMaxBlockingSortBytes</ParameterName>
```

```
terName>
    </Parameter>
</RunningParameters>
<EngineVersion>4.0</EngineVersion>
<Engine>mongodb</Engine>
</DescribeParametersResponse>
```

JSON format

```
{
    "ConfigParameters": {
        "Parameter": [
            {
                "ParameterDescription": "The threshold in milliseconds at which the database profiler considers a query slow, default is 100.",
                "ParameterValue": "200",
                "CheckingCode": "[0-65536]",
                "ForceRestart": false,
                "ModifiableStatus": true,
                "ParameterName": "operationProfiling.slowOpThresholdMs"
            }
        ]
    },
    "RequestId": "3ADD0C7D-2D2A-4F15-88FF-E7AC9B9FDCC8",
    "RunningParameters": {
        "Parameter": [
            {
                "ParameterDescription": "",
                "ParameterValue": "zlib",
                "CheckingCode": "snappy|zlib|disabled",
                "ForceRestart": "true",
                "ModifiableStatus": "true",
                "ParameterName": "net.compression.compressors"
            },
            {
                "ParameterDescription": "The level of database profiling, which inserts information about operation performance into the system.profile collection. 'off' for no profiling, 'slowOp' for only includes slow operations, 'all' for includes all operations, default is 'slowOp'.",
                "ParameterValue": "slowOp",
                "CheckingCode": "off|slowOp|all",
                "ForceRestart": "false",
                "ModifiableStatus": "true",
                "ParameterName": "operationProfiling.mode"
            },
            {
                "ParameterDescription": "The threshold in milliseconds at which the database profiler considers a query slow, default is 100.",
                "ParameterValue": "220",
                "CheckingCode": "[0-65536]",
                "ForceRestart": "false",
                "ModifiableStatus": "true",
                "ParameterName": "operationProfiling.slowOpThresholdMs"
            }
        ]
    }
}
```

```
{  
    "ParameterDescription": "The expiration threshold in milliseconds for idle  
cursors before MongoDB removes them; i.e. MongoDB removes cursors that have been idle for t  
he specified cursorTimeoutMillis. default is 600000(i.e. 10 minutes)",  
    "ParameterValue": "600000",  
    "CheckingCode": "[1-2147483647]",  
    "ForceRestart": "false",  
    "ModifiableStatus": "true",  
    "ParameterName": "setParameter.cursorTimeoutMillis"  
},  
{  
    "ParameterDescription": "The maximum memory bytes that sort stage may use,  
default is 33554432(i.e. 32MB)",  
    "ParameterValue": "33554432",  
    "CheckingCode": "[33554432-268435456]",  
    "ForceRestart": "false",  
    "ModifiableStatus": "true",  
    "ParameterName": "setParameter.internalQueryExecMaxBlockingSortBytes"  
}  
]  
,  
"EngineVersion": "4.0",  
"Engine": "mongodb"  
}
```

Error codes

HttpCode	Error code	Error message	Description
404	InvalidDBInstanceClasses.NotFound	Specified DB instance class is not found.	The error message returned because the specified instance type does not exist. Verify the specified instance type.
403	IncorrectDBInstanceType	Current DB instance type does not support this operation.	The error message returned because the operation is not supported by the current instance type.

For a list of error codes, visit the [API Error Center](#).

21.3. DescribeParameterTemplates

Queries the list of default parameter templates for ApsaraDB for MongoDB instances.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeParameterTemplates	The operation that you want to perform. Set the value to DescribeParameterTemplates .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the most recent region list.
Engine	String	Yes	mongodb	The database engine of the instance. Set the value to MongoDB .
EngineVersion	String	Yes	5.0	<p>The database engine version of the instance. Valid values:</p> <ul style="list-style-type: none"> • 5.0 • 4.4 • 4.2 • 4.0 • 3.4

Response parameters

Parameter	Type	Example	Description
ParameterCount	String	10	The number of parameters that are supported by the instance.
EngineVersion	String	5.0	The database engine version of the instance.
Parameters	Array of TemplateRecord		Details about the parameter templates.
TemplateRecord			
CheckingCode	String	[0-65536]	The value range of modifiable parameters.
ParameterName	String	net.compression.compressors	The name of the parameter.
ParameterValue	String	100	The default value of the parameter.

Parameter	Type	Example	Description
ForceModify	Boolean	true	<p>Indicates whether the parameter is modifiable.</p> <ul style="list-style-type: none"> • false: The parameter cannot be modified. • true: The parameter can be modified.
ForceRestart	Boolean	false	<p>Indicates whether a restart is required for parameter modifications to take effect.</p> <ul style="list-style-type: none"> • false: A restart is not required. Parameter modifications immediately take effect. • true: A restart is required for parameter modifications to take effect.
ParameterDescription	String	The threshold in milliseconds at which the database profiler considers a query slow, default is 100.	The description of the parameter.
RequestId	String	BDA54203-9D61-54A3-A568-D281F785****	The ID of the request.
Engine	String	mongodb	The database engine of the instance.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeParameterTemplates
&Engine=mongodb
&EngineVersion=5.0
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeParameterTemplatesResponse>
  <ParameterCount>10</ParameterCount>
  <EngineVersion>5.0</EngineVersion>
  <Parameters>
    <TemplateRecord>
      <ForceModify>true</ForceModify>
      <CheckingCode>snappy|zlib|disabled</CheckingCode>
```

```
<ParameterValue>snappy</ParameterValue>
<ForceRestart>true</ForceRestart>
<ParameterName>net.compression.compressors</ParameterName>
<ParameterDescription/>
</TemplateRecord>
<TemplateRecord>
    <ForceModify>true</ForceModify>
    <CheckingCode>synchronous|adaptive</CheckingCode>
    <ParameterValue>synchronous</ParameterValue>
    <ForceRestart>true</ForceRestart>
    <ParameterName>net.serviceExecutor</ParameterName>
    <ParameterDescription>Specifies the thread and execution model used by mongod or mongos.</ParameterDescription>
</TemplateRecord>
<TemplateRecord>
    <ForceModify>true</ForceModify>
    <CheckingCode>off|slowOp|all</CheckingCode>
    <ParameterValue>off</ParameterValue>
    <ForceRestart>false</ForceRestart>
    <ParameterName>operationProfiling.mode</ParameterName>
    <ParameterDescription>The level of database profiling, which inserts information about operation performance into the system.profile collection. 'off' for no profiling, 'slowOp' for only includes slow operations, 'all' for includes all operations, default is 'slowOp'.</ParameterDescription>
</TemplateRecord>
<TemplateRecord>
    <ForceModify>true</ForceModify>
    <CheckingCode>[0-65536]</CheckingCode>
    <ParameterValue>100</ParameterValue>
    <ForceRestart>false</ForceRestart>
    <ParameterName>operationProfiling.slowOpThresholdMs</ParameterName>
    <ParameterDescription>The threshold in milliseconds at which the database profiler considers a query slow, default is 100.</ParameterDescription>
</TemplateRecord>
<TemplateRecord>
    <ForceModify>true</ForceModify>
    <CheckingCode>true|false</CheckingCode>
    <ParameterValue>false</ParameterValue>
    <ForceRestart>true</ForceRestart>
    <ParameterName>replication.oplogGlobalIdEnabled</ParameterName>
    <ParameterDescription>Specifies whether to enable GID for two-way synchronization.</ParameterDescription>
</TemplateRecord>
<TemplateRecord>
    <ForceModify>true</ForceModify>
    <CheckingCode>[1-2147483647]</CheckingCode>
    <ParameterValue>600000</ParameterValue>
    <ForceRestart>false</ForceRestart>
    <ParameterName>setParameter.cursorTimeoutMillis</ParameterName>
    <ParameterDescription>The expiration threshold in milliseconds for idle cursors before MongoDB removes them; i.e. MongoDB removes cursors that have been idle for the specified cursorTimeoutMillis. default is 600000(i.e. 10 minutes)</ParameterDescription>
</TemplateRecord>
<TemplateRecord>
```

```
<ForceModify>true</ForceModify>
<CheckingCode>true|false</CheckingCode>
<ParameterValue>false</ParameterValue>
<ForceRestart>false</ForceRestart>
<ParameterName>setParameter.failIndexKeyTooLong</ParameterName>
<ParameterDescription>Specifies whether to return an error during indexing when
the index is longer than required.</ParameterDescription>
</TemplateRecord>
<TemplateRecord>
    <ForceModify>true</ForceModify>
    <CheckingCode>[33554432-268435456]</CheckingCode>
    <ParameterValue>33554432</ParameterValue>
    <ForceRestart>false</ForceRestart>
    <ParameterName>setParameter.internalQueryExecMaxBlockingSortBytes</ParameterNam
e>
    <ParameterDescription>The maximum memory bytes that sort stage may use, default
is 33554432(i.e. 32MB)</ParameterDescription>
</TemplateRecord>
<TemplateRecord>
    <ForceModify>true</ForceModify>
    <CheckingCode>[0-60]</CheckingCode>
    <ParameterValue>5</ParameterValue>
    <ForceRestart>false</ForceRestart>
    <ParameterName>setParameter.maxTransactionLockRequestTimeoutMillis</ParameterNa
me>
    <ParameterDescription>The timeout period for transaction locking.</ParameterDes
cription>
</TemplateRecord>
<TemplateRecord>
    <ForceModify>true</ForceModify>
    <CheckingCode>[5-300]</CheckingCode>
    <ParameterValue>60</ParameterValue>
    <ForceRestart>false</ForceRestart>
    <ParameterName>setParameter.transactionLifetimeLimitSeconds</ParameterName>
    <ParameterDescription>The total timeout period for transactions.</ParameterDesc
ription>
</TemplateRecord>
</Parameters>
<RequestId>BDA54203-9D61-54A3-A568-D281F785****</RequestId>
<Engine>mongodb</Engine>
</DescribeParameterTemplatesResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
    "ParameterCount" : "10",
    "EngineVersion" : "5.0",
    "Parameters" : {
        "TemplateRecord" : [ {
            "ForceModify" : true,
            "CheckingCode" : "snappy|zlib|disabled",
            "ParameterValue" : "snappy",
```

```
    },
    {
        "ForceModify" : true,
        "ParameterName" : "net.compression.compressors",
        "ParameterDescription" : ""
    },
    {
        "ForceModify" : true,
        "CheckingCode" : "synchronous|adaptive",
        "ParameterValue" : "synchronous",
        "ForceRestart" : true,
        "ParameterName" : "net.serviceExecutor",
        "ParameterDescription" : "Specifies the thread and execution model used by mongod or mongos."
    },
    {
        "ForceModify" : true,
        "CheckingCode" : "off|slowOp|all",
        "ParameterValue" : "off",
        "ForceRestart" : false,
        "ParameterName" : "operationProfiling.mode",
        "ParameterDescription" : "The level of database profiling, which inserts information about operation performance into the system.profile collection. 'off' for no profiling, 'slowOp' for only includes slow operations, 'all' for includes all operations, default is 'slowOp'."
    },
    {
        "ForceModify" : true,
        "CheckingCode" : "[0-65536]",
        "ParameterValue" : "100",
        "ForceRestart" : false,
        "ParameterName" : "operationProfiling.slowOpThresholdMs",
        "ParameterDescription" : "The threshold in milliseconds at which the database profiler considers a query slow, default is 100."
    },
    {
        "ForceModify" : true,
        "CheckingCode" : "true|false",
        "ParameterValue" : "false",
        "ForceRestart" : true,
        "ParameterName" : "replication.oplogGlobalIdEnabled",
        "ParameterDescription" : "Specifies whether to enable GID for two-way synchronization."
    },
    {
        "ForceModify" : true,
        "CheckingCode" : "[1-2147483647]",
        "ParameterValue" : "600000",
        "ForceRestart" : false,
        "ParameterName" : "setParameter.cursorTimeoutMillis",
        "ParameterDescription" : "The expiration threshold in milliseconds for idle cursors before MongoDB removes them; i.e. MongoDB removes cursors that have been idle for the specified cursorTimeoutMillis. default is 600000(i.e. 10 minutes)"
    },
    {
        "ForceModify" : true,
        "CheckingCode" : "true|false",
        "ParameterValue" : "false",
        "ForceRestart" : false,
        "ParameterName" : "setParameter.failIndexKeyTooLong",
        "ParameterDescription" : "Specifies whether to return an error during indexing when the index is longer than required."
    }
```

```
}, {
    "ForceModify" : true,
    "CheckingCode" : "[33554432-268435456]",
    "ParameterValue" : "33554432",
    "ForceRestart" : false,
    "ParameterName" : "setParameter.internalQueryExecMaxBlockingSortBytes",
    "ParameterDescription" : "The maximum memory bytes that sort stage may use, default is 33554432(i.e. 32MB)"
}, {
    "ForceModify" : true,
    "CheckingCode" : "[0-60]",
    "ParameterValue" : "5",
    "ForceRestart" : false,
    "ParameterName" : "setParameter.maxTransactionLockRequestTimeoutMillis",
    "ParameterDescription" : "The timeout period for transaction locking."
}, {
    "ForceModify" : true,
    "CheckingCode" : "[5-300]",
    "ParameterValue" : "60",
    "ForceRestart" : false,
    "ParameterName" : "setParameter.transactionLifetimeLimitSeconds",
    "ParameterDescription" : "The total timeout period for transactions."
} ]
},
"RequestId" : "BDA54203-9D61-54A3-A568-D281F785****",
"Engine" : "mongodb"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

21.4. ModifyParameters

You can call this operation to modify the parameters of an ApsaraDB for MongoDB instance.

The instance must be in the running state when you call this operation.

 **Note** If some of the modified parameters take effect only after the instance is restarted, the instance is automatically restarted after the operation is complete. You can call the [DescribeParameterTemplates](#) operation to query the parameters that take effect only after the instance is restarted.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyParameters	The operation that you want to perform. Set the value to ModifyParameters .
DBInstanceld	String	Yes	dds-bpxxxxxxx	<p>The ID of the instance.</p> <p>Note If you set this parameter to the ID of a sharded cluster instance, you must also specify the NodeId parameter.</p>
Parameters	String	Yes	{"operationProfiling.slowOpThresholdMs":"300"}	<p>The parameters to be modified and their new values. Set this parameter to a JSON string. For example, set the parameter in the <code>{"name": "value", "name": "value2"}</code> format.</p> <p>Note You can call the DescribeParameterTemplates operation to query a list of default parameter templates.</p>
NodeId	String	No	d-bpxxxxxxx	<p>The ID of the mongos or shard in the specified sharded cluster instance.</p> <p>Note This parameter is valid only if you set the DBInstanceld parameter to the ID of a sharded cluster instance.</p>
CharacterType	String	No	db	<p>The role of the object that you want to query. Valid values:</p> <ul style="list-style-type: none"> • db: a shard • cs: a config server • mongos: a mongos • logic: a sharded cluster instance

Response parameters

Parameter	Type	Example	Description
RequestId	String	36923CC2-DDAB-4B48-A144-DA92C1E19537	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=ModifyParameters
&DBInstanceId=dds-bpxxxxxxx
&Parameters={"operationProfiling.slowOpThresholdMs":"300"}
&<Common request parameters>
```

Sample success responses

XML format

```
<ModifyParametersResponse>
  <RequestId>36923CC2-DDAB-4B48-A144-DA92C1E19537</RequestId>
</ModifyParametersResponse>
```

JSON format

```
{
  "RequestId": "36923CC2-DDAB-4B48-A144-DA92C1E19537"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

22. Backup and restoration

22.1. DescribeBackupPolicy

Queries the backup policy of an ApsaraDB for MongoDB instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	No	DescribeBackupPolicy	The operation that you want to perform. Set the value to DescribeBackupPolicy .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of the instance.
DBInstanceId	String	Yes	dds-bp16cb162771*** *	The ID of the instance.

Response parameters

Parameter	Type	Example	Description
PreferredBackupPeriod	String	Monday,Tuesday,Wednesday,Thursday,Friday,Saturday,Sunday	The days on which backups are performed. Valid values: <ul style="list-style-type: none">• Monday• Tuesday• Thursday• Friday• Saturday• Sunday
RequestId	String	5A9464CA-F7DC-5434-90B1-DF7F197C****	The ID of the request.

Parameter	Type	Example	Description
PreferredBackupTime	String	09:00Z-10:00Z	The period of time during which backups are performed. The time is in the <i>HH:mmZ-HH:mmZ</i> format. The time is displayed in UTC.
BackupRetentionPeriod	String	30	The number of days for which backup files are retained.
EnableBackupLog	Integer	0	Indicates whether to enable the log backup feature. Default value: 0. Valid values: <ul style="list-style-type: none">• 0: disables the log backup feature.• 1: enables the log backup feature.
LogBackupRetentionPeriod	Integer	0	The number of days for which log backup files are retained.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeBackupPolicy  
DBInstanceId=dds-bp16cb162771****  
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK  
Content-Type:application/xml  
<DescribeBackupPolicyResponse>  
  <PreferredBackupPeriod>Monday,Tuesday,Wednesday,Thursday,Friday,Saturday,Sunday</PreferredBackupPeriod>  
  <LogBackupRetentionPeriod>0</LogBackupRetentionPeriod>  
  <RequestId>5A9464CA-F7DC-5434-90B1-DF7F197C****</RequestId>  
  <PreferredBackupTime>09:00Z-10:00Z</PreferredBackupTime>  
  <EnableBackupLog>0</EnableBackupLog>  
  <BackupRetentionPeriod>30</BackupRetentionPeriod>  
  <PreferredNextBackupTime>2021-09-09T09:22Z</PreferredNextBackupTime>  
</DescribeBackupPolicyResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "PreferredBackupPeriod" : "Monday,Tuesday,Wednesday,Thursday,Friday,Saturday,Sunday",
  "LogBackupRetentionPeriod" : 0,
  "RequestId" : "5A9464CA-F7DC-5434-90B1-DF7F197C****",
  "PreferredBackupTime" : "09:00Z-10:00Z",
  "EnableBackupLog" : 0,
  "BackupRetentionPeriod" : "30",
  "PreferredNextBackupTime" : "2021-09-09T09:22Z"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

22.2. ModifyBackupPolicy

Modifies the backup policy of an ApsaraDB for MongoDB instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyBackupPolicy	The operation that you want to perform. Set the value to ModifyBackupPolicy .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of the instance.
DBInstanceId	String	Yes	dds-bp16cb162771***	The ID of the instance.
PreferredBackupTime	String	Yes	03:00Z-04:00Z	The backup window. Specify the time in the <i>HH:mmZ-HH:mmZ</i> format. The time must be in UTC. ? Note The maximum period is 1 hour.

Parameter	Type	Required	Example	Description
PreferredBackupPeriod	String	Yes	Monday,Wednesday,Friday,Sunday	<p>The days of the week on which to perform data backup. Valid values:</p> <ul style="list-style-type: none"> • Monday • Tuesday • Wednesday • Thursday • Friday • Saturday • Sunday <div style="background-color: #e1f5fe; padding: 10px; margin-top: 10px;"> ? Note Separate multiple values with commas (,). </div>
BackupRetentionPeriod	Long	No	30	<p>The retention period of full backups. Unit: days. The default value is 30 for ApsaraDB for MongoDB instances created after September 10, 2021.</p> <div style="background-color: #e1f5fe; padding: 10px; margin-top: 10px;"> ? Note The default value is 7 for ApsaraDB for MongoDB instances created before September 10, 2021. </div>
EnableBackupLog	Long	No	0	<p>Specifies whether to enable log backup. Default value: 0. Valid values:</p> <ul style="list-style-type: none"> • 0: disables log backup. • 1: enables log backup.
LogBackupRetentionPeriod	Long	No	0	<p>The retention period of log backups. Unit: days. Default value: 7.</p>

Response parameters

Parameter	Type	Example	Description
RequestId	String	644A359C-B871-4DD3-97B5-ED91EF5809C2	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=ModifyBackupPolicy  
&DBInstanceId=dds-bp16cb162771****  
&PreferredBackupPeriod=Monday,Wednesday,Friday,Sunday  
&PreferredBackupTime=03:00Z-04:00Z  
&<Common request parameters>
```

Sample success responses

[XML](#) format

```
HTTP/1.1 200 OK  
Content-Type:application/xml  
<ModifyBackupPolicyResponse>  
  <RequestId>657D2872-ED98-5778-A676-10132E30****</RequestId>  
</ModifyBackupPolicyResponse>
```

[JSON](#) format

```
HTTP/1.1 200 OK  
Content-Type:application/json  
{  
  "RequestId" : "657D2872-ED98-5778-A676-10132E30****"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

22.3. CreateBackup

You can call this operation to manually back up an ApsaraDB for MongoDB instance.

The instance must be in the running state when you call this operation.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CreateBackup	The operation that you want to perform. Set the value to CreateBackup .
DBInstanceId	String	Yes	d-bpxxxxxxx	The ID of the instance.

Parameter	Type	Required	Example	Description
BackupMethod	String	No	Logical	<p>The backup method of the instance. Default value: Physical. Valid values:</p> <ul style="list-style-type: none"> • Logical • Physical <div style="background-color: #e1f5fe; padding: 10px;"> ? Note Only replica set instances and sharded cluster instances support this parameter. You do not need to specify this parameter for standalone instances. All standalone instances use snapshot backup. </div>
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
BackupId	String	5664xxxx	The ID of the backup set.
RequestId	String	7016B12F-7F64-40A4-BAFF-013F02AC82FC	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=CreateBackup
DBInstanceId=dds-bpxxxxxxxxx
&<Common request parameters>
```

Sample success responses

XML format

```
<CreateBackupResponse>
  <RequestId>7016B12F-7F64-40A4-BAFF-013F02AC82FC</RequestId>
  <BackupId>5664xxxx</BackupId>
</CreateBackupResponse>
```

JSON format

```
{  
    "RequestId": "7016B12F-7F64-40A4-BAFF-013F02AC82FC",  
    "BackupId": "5664xxxx"  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

22.4. DescribeBackups

Queries the backup sets of an ApsaraDB for MongoDB instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeBackups	The operation that you want to perform. Set the value to DescribeBackups.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the most recent region list.
DBInstanceId	String	Yes	dds-bp1a7009eb24*** *	The ID of the instance. <div style="background-color: #e0f2ff; padding: 10px;"><p>? Note If you set this parameter to the ID of a sharded cluster instance, you must also specify the NodeId parameter.</p></div>
NodeId	String	No	d-bp128a003436*** *	The ID of the shard node in the sharded cluster instance. <div style="background-color: #e0f2ff; padding: 10px;"><p>? Note This parameter is valid only when DBInstanceId is set to the ID of a sharded cluster instance.</p></div>

Parameter	Type	Required	Example	Description
BackupId	String	No	2072****,2072****, 2072****	The ID of the backup set. You can call the CreateBackup operation to obtain the value of this parameter. If you set the DBInstanceId parameter to the ID of a sharded cluster instance, the number of backup IDs is the same as the number of shards. Multiple , with commas (,) in the middle.
PageNumber	Integer	No	1	The number of the page to return. The value must be an integer that is greater than 0. Default value: 1.
PageSize	Integer	No	30	The number of entries to return on each page. Valid values: 30, 50, and 100. Default value: 30.
StartTime	String	No	2022-01-13T13:00Z	The beginning of the time range to query. Specify the time in the <i>yyyy-MM-ddTHH:mmZ</i> format. The time must be in UTC.
EndTime	String	No	2022-01-14T13:00Z	The end of the time range to query. Specify the time in the <i>yyyy-MM-ddTHH:mmZ</i> format. The time must be in UTC.

Response parameters

Parameter	Type	Example	Description
TotalCount	Integer	1	The total number of backup sets that were returned.
RequestId	String	275D43C3-F12F-5224-B375-0C6BF453BD56	The ID of the request.
PageSize	Integer	30	The number of entries to return on each page.
PageNumber	Integer	1	The number of the page to return.

Parameter	Type	Example	Description
Backups	Array of Backup		Details about backup sets.
Backup			
BackupStatus	String	Success	The status of the backup. Valid values: <ul style="list-style-type: none"> • Success: The backup task is successful. • Failed: The backup task failed.
BackupType	String	FullBackup	The backup method. <ul style="list-style-type: none"> • FullBackup: a full backup • IncrementalBackup: an incremental backup
BackupStartTime	String	2022-01-14T03:56:17Z	The beginning of the backup time range. The time is in the <i>yyyy-MM-ddT HH:mm:ssZ</i> format and displayed in UTC.
BackupIntranetDownloadURL	String	http://rdsbak-hz-v3.oss-cn-hangzhou-internal.aliyuncs.com/custins5559****/hins1936****_data_2022052504****_qp.xb? Expires=165361****&OSSAccessKeyId=LT AI4G2wxd32KLGARfi* ***&Signature=lkFPj OY%2F8adB18vnOCbtmT7ii****&Region=cn-hangzhou	The internal download URL of the backup set. <div style="background-color: #e1f5fe; padding: 10px; border-radius: 5px;">? Note You can use this URL to download the backup set from on the ECS instance which is on the same network as the ApsaraDB for MongoDB instance.</div>
BackupSize	Long	6168576	The size of the backup set. Unit: bytes.

Parameter	Type	Example	Description
BackupDownloadURL	String	http://rdsbak-hz-v3.oss-cn-hangzhou.aliyuncs.com/custins5559****/hins1936****_data_2022052504****_qp.xb? Expires=165361****&OSSAccessKeyId=LT AI4G2wdx32KLGARf* ***&Signature=lkFPj OY%2F8adb18vnOCbtmT7****&Region=cn-hangzhou	The Internet download URL of the backup set. If the download URL is unavailable, this parameter is an empty string.
BackupMode	String	Automated	<p>The backup mode.</p> <ul style="list-style-type: none"> • Automated: automatic backup • Manual: manual backup
BackupEndTime	String	2022-01-14T03:57:34Z	The end of the backup time range. The time is in the <i>yyyy-MM-ddT HH:mm:ssZ</i> format and displayed in UTC.
BackupId	Integer	32102****	The ID of the backup set.
BackupDBNames	String	config,myNewDB	The name of the database that has been backed up.
BackupMethod	String	Physical	<p>The backup method. Valid values:</p> <ul style="list-style-type: none"> • Snapshot • Physical • Logical

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeBackups
&DBInstanceId=dds-bp1a7009eb24****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeBackupsResponse>
  <TotalCount>1</TotalCount>
  <RequestId>275D43C3-F12F-5224-B375-0C6BF453BD56</RequestId>
  <PageSize>30</PageSize>
  <PageNumber>1</PageNumber>
  <Backups>
    <BackupStatus>Success</BackupStatus>
    <BackupType>FullBackup</BackupType>
    <BackupStartTime>2022-01-14T03:56:17Z</BackupStartTime>
    <BackupIntranetDownloadURL>http://rdsbak-hz-v3.oss-cn-hangzhou-internal.aliyuncs.com/custins5559*****/hins1936****_data_2022052504****_qp.xb?Expires=165361****&OSSAccessKeyId=LTAI4G2wdx32KLGARfi****&Signature=lkFPjOY%2F8adB18vnOCbtmT7ii****&Region=cn-hangzhou</BackupIntranetDownloadURL>
    <BackupSize>6168576</BackupSize>
    <BackupDownloadURL>http://rdsbak-hz-v3.oss-cn-hangzhou.aliyuncs.com/custins5559****/hins1936****_data_2022052504****_qp.xb?Expires=165361****&OSSAccessKeyId=LTAI4G2wdx32KLGARf****&Signature=lkFPjOY%2F8adB18vnOCbtmT7****&Region=cn-hangzhou</BackupDownloadURL>
    <BackupMode>Automated</BackupMode>
    <BackupEndTime>2022-01-14T03:57:34Z</BackupEndTime>
    <BackupDBNames>database</BackupDBNames>
    <BackupMethod>Physical</BackupMethod>
  </Backups>
</DescribeBackupsResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
    "TotalCount" : 1,
    "RequestId" : "275D43C3-F12F-5224-B375-0C6BF453BD56",
    "PageSize" : 30,
    "PageNumber" : 1,
    "Backups" : [
        {
            "BackupStatus" : "Success",
            "BackupType" : "FullBackup",
            "BackupStartTime" : "2022-01-14T03:56:17Z",
            "BackupIntranetDownloadURL" : "http://rdsbak-hz-v3.oss-cn-hangzhou-internal.aliyuncs.com/custins5559*****/hins1936****_data_2022052504****_qp.xb?Expires=165361****&OSSAccessKeyId=LTAI4G2wdx32KLGARfi****&Signature=lkFPjOY%2F8adB18vnOCbtmT7ii****&Region=cn-hangzhou",
            "BackupSize" : 6168576,
            "BackupDownloadURL" : "http://rdsbak-hz-v3.oss-cn-hangzhou.aliyuncs.com/custins5559****/hins1936****_data_2022052504****_qp.xb?Expires=165361****&OSSAccessKeyId=LTAI4G2wdx32KLGARf****&Signature=lkFPjOY%2F8adB18vnOCbtmT7****&Region=cn-hangzhou",
            "BackupMode" : "Automated",
            "BackupEndTime" : "2022-01-14T03:57:34Z",
            "BackupDBNames" : "database",
            "BackupMethod" : "Physical"
        }
    ]
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

22.5. RestoreDBInstance

You can call this operation to restore data to the current ApsaraDB for MongoDB instance.

This operation is applicable to replica set instances, but cannot be called on standalone instances or sharded cluster instances. You can use the following methods to clone an instance: [Create an instance from a backup](#) to clone a standalone instance. Call the [CreateShardingDBInstance](#) operation to clone a sharded cluster instance.

 **Note** This operation overwrites the data of the current instance, and the data cannot be recovered. Exercise caution when performing this operation.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	RestoreDBInstance	The operation that you want to perform. Set the value to RestoreDBInstance .
BackupId	Integer	Yes	11111111	<p>The ID of the backup.</p> <div style="background-color: #e1f5fe; padding: 10px;"> ? Note You can call the DescribeBackups operation to query the backup ID. </div>
DBInstanceId	String	Yes	dds-bpxxxxxxxx	The ID of an instance.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the region ID of the instance.

Response parameters

Parameter	Type	Example	Description
RequestId	String	973DCB8F-56B3-4102-8777-3A90495927F7	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=RestoreDBInstance
&BackupId=11111111
&DBInstanceId=dds-bpxxxxxxxx
&<Common request parameters>
```

Sample success responses

XML format

```
<RestoreDBInstanceResponse>
  <RequestId>973DCB8F-56B3-4102-8777-3A90495927F7</RequestId>
</RestoreDBInstanceResponse>
```

JSON format

```
{
  "RequestId": "973DCB8F-56B3-4102-8777-3A90495927F7"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

22.6. DescribeBackupDBs

Queries the databases at a specified time or contained in a specified backup set before restoring a database for an ApsaraDB for MongoDB instance.

Precautions

You can call the [CreateDBInstance](#) operation to restore a database for an ApsaraDB for MongoDB instance. For more information, see [Restore one or more databases of an ApsaraDB for MongoDB instance](#).

Before you call this operation, make sure that the ApsaraDB for MongoDB instance meets the following requirements:

- The instance was created after March 26, 2019.
- The instance is located in the China (Qingdao), China (Beijing), China (Zhangjiakou), China (Hohhot), China (Hangzhou), China (Shanghai), China (Shenzhen), or Singapore (Singapore) region. Other regions are not supported.
- The instance is a replica set instance.
- The version of the database engine is 3.4, 4.0, or 4.2.
- The storage engine of the instance is WiredTiger.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeBackupDBs	The operation that you want to perform. Set the value to DescribeBackupDBs .
PageNumber	Integer	No	1	The number of the page to return. The value of this parameter must be an integer that is greater than 0. Default value: 1.
PageSize	Integer	No	30	The number of entries to return on each page. Default value: 30. Valid values: 30 , 50 , and 100 .

Parameter	Type	Required	Example	Description
SourceDBInstance	String	Yes	dds-bp2286****	The ID of the source instance.
RestoreTime	String	No	2019-08-22T12:00:00Z	<p>The point in time to which the instance is restored. Specify the time in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.</p> <div style="background-color: #e1f5fe; padding: 10px;"> <p>? Note</p> <ul style="list-style-type: none"> The time can be a point in time within the past seven days. The time must be earlier than the current time, but later than the time when the instance was created. You must specify one of the <code>RestoreTime</code> and <code>BackupId</code> parameters. </div>
BackupId	String	No	5664****	<p>The ID of the backup set.</p> <div style="background-color: #e1f5fe; padding: 10px;"> <p>? Note</p> <ul style="list-style-type: none"> You can call the DescribeBackups operation to query the backup ID. You must specify one of the <code>RestoreTime</code> and <code>BackupId</code> parameters. </div>
ResourceGroupId	String	No	rg-ax68****	The ID of the resource group.

Response parameters

Parameter	Type	Example	Description
TotalCount	Integer	5	The number of returned databases.
Databases	Array of Database		Details about the databases.
Database			

Parameter	Type	Example	Description
DBName	String	mongodbtest	The name of the database.
RequestId	String	1AF0AD89-ED4F-44AD-B65F-BFC1D5CD9455	The ID of the request.
PageSize	Integer	30	The number of entries returned per page.
PageNumber	Integer	1	The page number of the returned page.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeBackupDBs  
&PageNumber=1  
&PageSize=30  
&SourceDBInstance=dds-bp2286****  
&RestoreTime=2019-08-22T12:00:00Z  
&BackupId=5664****  
&ResourceGroupId=rg-ax68****  
&Common request parameters
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<?xml version="1.0" encoding="UTF-8" ?>
<DescribeBackupDBsResponse>
    <Databases>
        <Database>
            <DBName>admin</DBName>
        </Database>
        <Database>
            <DBName>config</DBName>
        </Database>
        <Database>
            <DBName>mongodbtest</DBName>
        </Database>
        <Database>
            <DBName>db1</DBName>
        </Database>
        <Database>
            <DBName>db2</DBName>
        </Database>
    </Databases>
    <PageNumber>1</PageNumber>
    <TotalCount>5</TotalCount>
    <PageSize>30</PageSize>
    <RequestId>1AF0AD89-ED4F-44AD-B65F-BFC1D5CD9455</RequestId>
</DescribeBackupDBsResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
    "Databases" : [
        "Database" : [ {
            "DBName" : "admin"
        }, {
            "DBName" : "config"
        }, {
            "DBName" : "mongodbtest"
        }, {
            "DBName" : "db1"
        }, {
            "DBName" : "db2"
        } ]
    },
    "PageNumber" : 1,
    "TotalCount" : 5,
    "PageSize" : 30,
    "RequestId" : "1AF0AD89-ED4F-44AD-B65F-BFC1D5CD9455"
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	IncorrectDBInstanceType	Current DB instance type does not support this operation.	The error message returned because the operation is not supported by this instance category.

For a list of error codes, visit the [API Error Center](#).

22.7. CheckRecoveryCondition

You can call this operation to check whether an ApsaraDB for MongoDB instance meets the data recovery conditions.

This operation is applicable to replica set instances or sharded cluster instances.

 **Note** After you confirm that the data recovery conditions are met by calling this operation, you can call the [CreateDBInstance](#) operation to restore data to a new instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	CheckRecoveryCondition	The operation that you want to perform. Set the value to CheckRecoveryCondition .
SourceDBInstance	String	Yes	dds-bpxxxxxxxx	The ID of the source instance.
DatabaseNames	String	No	["db1","db2"]	The name of the source database. The value is a JSON array.  Note If you do not specify this parameter, all databases are restored.

Parameter	Type	Required	Example	Description
RestoreTime	String	No	2019-08-22T08:00:00Z	<p>The point in time to which the instance is restored. Specify the time in the yyyy-MM-ddTHH:mm:ssZ format. The time must be in UTC.</p> <div style="background-color: #e1f5fe; padding: 10px;"> <p>? Note</p> <ul style="list-style-type: none"> The value can be any time within the past seven days. The time must be earlier than the current time, but later than the time when the instance was created. You must specify one of the <code>RestoreTime</code> and <code>BackupId</code> parameters. </div>
BackupId	String	No	5664xxxx	<p>The ID of the backup.</p> <div style="background-color: #e1f5fe; padding: 10px;"> <p>? Note</p> <ul style="list-style-type: none"> You can call the DescribeBackups operation to query the ID of the backup. You must specify one of the <code>RestoreTime</code> and <code>BackupId</code> parameters. This parameter is not applicable to sharded cluster instances. </div>
ResourceGroupId	String	No	sg-bpxxxxxxxxxxxxxxx xxxx	The ID of the resource group.

Response parameters

Parameter	Type	Example	Description
IsValid	Boolean	true	<p>Indicates whether the recovery conditions are met. Valid values:</p> <ul style="list-style-type: none"> true: The recovery conditions are met. false: The recovery conditions are not met.

Parameter	Type	Example	Description
RequestId	String	D563A3E7-6010-45FE-A0CD-9283414C9657	The ID of the request.
DBInstanceId	String	dds-bpxxxxxxx	The ID of the instance.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/? Action=CheckRecoveryCondition  
&SourceDBInstanceId=dds-bpxxxxxxx  
&RestoreTime=2019-08-22T08:00:00Z  
&<Common request parameters>
```

Sample success responses

XML format

```
<CheckRecoveryConditionResponse>  
    <IsValid>true</IsValid>  
    <RequestId>D563A3E7-6010-45FE-A0CD-9283414C9657</RequestId>  
    <DBInstanceId>dds-bpxxxxxxx</DBInstanceId>  
</CheckRecoveryConditionResponse>
```

JSON format

```
{  
    "IsValid": true,  
    "RequestId": "D563A3E7-6010-45FE-A0CD-9283414C9657",  
    "DBInstanceId": "dds-bpxxxxxxx"  
}
```

Error codes

HTTP status code	Error code	Error message	Description
403	IncorrectDBInstanceIdType	Current DB instance type does not support this operation.	The error message returned because the operation is not supported by the current instance type.

For a list of error codes, visit the [API Error Center](#).

23.Renewal management

23.1. DescribePrice

Queries the fees incurred when you create, upgrade, or renew an ApsaraDB for MongoDB instance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribePrice	The operation that you want to perform. Set the value to DescribePrice .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the most recent region list.
OrderType	String	Yes	BUY	The type of the order. Valid values: <ul style="list-style-type: none">• BUY: instance creation• UPGRADE: instance configuration change• RENEW: instance renewal

Parameter	Type	Required	Example	Description
DBInstances	String	Yes	[{ "DBInstanceId": "dds-bp1xxxxxxxxxxxxx", "RegionId": "cn-hangzhou", "ZoneId": "cn-hangzhou-f", "Engine": "MongoDB", "EngineVersion": "4.2", "DBInstanceClass": "dds.mongo.mid", "DBInstanceStorage": 10, "ChargeType": "PrePaid", "Period": 1 }]	A JSON string that contains the details of the ApsaraDB for MongoDB instance. For more information, see Details of the DBInstances parameter in the DescribePrice operation.
CommodityCode	String	No	dds_sharding	<p>The code of the cluster. Valid values:</p> <ul style="list-style-type: none"> • dds: a replica set instance that uses the pay-as-you-go billing method • badds: a replica set instance that uses the subscription billing method • dds_sharding: a sharded cluster instance that uses the pay-as-you-go billing method • badds_sharding: a sharded cluster instance that uses the subscription billing method • badds_sharding_intl: a sharded cluster instance that uses the subscription billing method and is available on the International site (alibabacloud.com) • badds_sharding_jp: a sharded cluster instance that uses the subscription billing method and is available on the Japan site (jp.alibabacloud.com)
ProductCode	String	No	dds	The code of the service to which the instance belongs. Default value: dds .
BusinessInfo	String	No	null	The business information. This is an additional parameter.

Parameter	Type	Required	Example	Description
CouponNo	String	No	youhuiquan_promotion_option_id_for_blank	The coupon code. Default value: <code>youhuiquan_promotion_option_id_for_blank</code> .
OrderParamOut	String	No	false	Specifies whether to return the parameters about the order. Valid values: <ul style="list-style-type: none">• false• true Default value: false .
ResourceGroupId	String	No	rg-acfmyiu4ekp****	The ID of the resource group. For more information, see View basic information of a resource group .

Response parameters

Parameter	Type	Example	Description
Order	Object		The list of orders.
Coupons	Array of Coupon		Details about the coupons.
Coupon			
Description	String	Example description	The description of the topic.
IsSelected	String	true	Indicates whether the coupon was selected.
CouponNo	String	youhuiquan_promotion_option_id_for_blank	The coupon number.
Name	String	youhuiquan111	The name of the coupon.
OriginalAmount	String	322.4	The original price of the order.
DiscountAmount	String	322.4	The discount amount of the order.
RuleIds	Array of String	null	The list of one or more promotion rule IDs.

Parameter	Type	Example	Description
TradeAmount	String	0	The actual price of the order.
Currency	String	USD	The type of the currency. Valid values: • USD: United States dollar • JPY: Japanese Yen.
RequestId	String	82530058-D4CF-49A4-96FB-9DD2DF3CE93E	The ID of the request.
SubOrders	Array of SubOrder		Details about the rules that match the coupon.
SubOrder			
OriginalAmount	String	322.4	The original price of the order.
DiscountAmount	String	322.4	The discount amount of the order.
RuleIds	Array of String	null	The list of one or more promotion rule IDs.
TradeAmount	String	0	The actual price of the order.
InstanceId	String	dds-bpxxxxxxx	The ID of the instance.
TraceId	String	1111111111111111 1111111111111111	The ID of the trace.
OrderParams	String	{"autoPay":false}	The order parameters. This parameter is returned if the <code>OrderParamOut</code> parameter is set to <code>true</code> .
Rules	Array of Rule		Details about the promotion rules.
Rule			
RuleDescId	Long	11111111	The ID of the policy.
Title	String	demo	The title of the rule.

Parameter	Type	Example	Description
Name	String	demoname	The name of the rule. Valid values

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribePrice
&DBInstances=
[
    {
        "DBInstanceId": "dds-bp1xxxxxxxxxxxx",
        "RegionId": "cn-hangzhou",
        "ZoneId": "cn-hangzhou-f",
        "Engine": "MongoDB",
        "EngineVersion": "4.2",
        "DBInstanceClass": "dds.mongo.mid",
        "DBInstanceStorage": 10,
        "VpcId": null,
        "VSwitchId": null,
        "ChargeType": "PrePaid",
        "Period": 1
    }
]
&OrderType=BUY
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<Order>
    <Currency>USD</Currency>
    <RuleIds>
        <RuleId>102xxxxxxxxxxxxxx</RuleId>
    </RuleIds>
    <TradeAmount>0</TradeAmount>
    <OriginalAmount>4.62</OriginalAmount>
    <Coupons>
    </Coupons>
    <DiscountAmount>4.62</DiscountAmount>
</Order>
<RequestId>82530058-D4CF-49A4-96FB-9DD2DF3CE93E</RequestId>
<SubOrders>
</SubOrders>
<OrderParams>{"autoPay":false,"autoUseCoupon":false,"bid":"26842","buyerId":140xxxxxxxxxxxxxx,"commodities":[{"chargeType":"PREPAY","commodityCode":"badds","components":[{"componentCode":"dds_region","free":false,"moduleAttrStatus":3,"moduleParams":{},"properties":[{"code":"dds_region","name":"China (Hangzhou)","value":"cn-hangzhou"}]},{"componentCode":"dds_dbtype","name":"MongoDB","value":"MongoDB"}]},{"componentCode":"dds_dbversion","free":false,"moduleAttrStatus":3,"moduleParams":{},"properties":[{"code":"dds_dbversion","name":" 4.2","value":" 4.2"}]}, {"componentCode":"dds_class","free":false,"moduleAttrStatus":3,"moduleParams":{},"properties":[{"code":"dds_class","name":"dds.mongo.mid","value":"dds.mongo.mid"}]},{ "componentCode":"dds_storage","free":false,"moduleAttrStatus":3,"moduleParams":{},"properties":[{"code":"dds_storage","name":"10","value":"10"}]}, {"componentCode":"replication_factor","free":false,"moduleAttrStatus":3,"moduleParams":{},"properties":[{"code":"replication_factor","name":"5","value":"5"}]}, {"componentCode":"readonly_replicas","free":false,"moduleAttrStatus":3,"moduleParams":{},"properties":[{"code":"readonly_replicas","name":"0","value":"0"}]}], "duration":1,"free":false,"instanceId":"dds-bp1xxxxxxxxxxxxxx","migrateOrder":false,"orderParams":{},"orderType":"UPGRADE","periodAlign":false,"prePayPostCharge":false,"pricingCycle":"Day","quantity":1,"renewChange":false,"specUpdate":false,"syncToSubscription":false,"upgradeInquireFinancialValue":true}],"fromApp":"OpenApi","orderParams":{"promotion_input_param":"{\\\"promotionFilter\\\":{\\\"youhui_quan\\\":true},\\\"promotionOptionCode\\\":\\\"youhui_quan\\\",\\\"promotionOptionNo\\\":\\\"youhuiquan_promotion_option_id_for_blank\\\"}}","rateWithTax":false,"requestId":"82530058-D4CF-49A4-96FB-9DD2DF3CE93E","token":"xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx","userId":140xxxxxxxxxxxx}</OrderParams>
<Rules>
    <Rule>
        <RuleDescId>102xxxxxxxxxxxxxx</RuleDescId>
        <Name>Sample coupon</Name>
    </Rule>
</Rules>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "Order" : {
    "Currency" : "USD",
    "RuleIds" : {
      "RuleId" : [ "102xxxxxxxxxxxxxx" ]
    },
    "TradeAmount" : 0,
    "OriginalAmount" : 4.62,
    "Coupons" : {
      "Coupon" : [ ]
    },
    "DiscountAmount" : 4.62
  },
  "RequestId" : "82530058-D4CF-49A4-96FB-9DD2DF3CE93E",
  "SubOrders" : {
    "SubOrder" : [ ]
  },
  "OrderParams" : "{\"autoPay\":false, \"autoUseCoupon\":false, \"bid\":\"26842\", \"buyerId\" :140xxxxxxxxxxx, \"commodities\" :[ {\"chargeType\":\"PREPAY\", \"commodityCode\":\"badds\", \"components\" :[ {\"componentCode\":\"dds_region\", \"free\":false, \"moduleAttrStatus\":3, \"moduleParams\" :{}, \"properties\" :[ {\"code\":\"dds_region\", \"name\":\"China (Hangzhou)\", \"value\":\"cn-hangzhou\"} ] }, {\"componentCode\":\"dds_dbtype\", \"free\":false, \"moduleAttrStatus\":3, \"moduleParams\" :{}, \"properties\" :[ {\"code\":\"dds_dbtype\", \"name\":\"MongoDB\", \"value\":\"MongoDB\"} ] }, {\"componentCode\":\"dds_dbversion\", \"free\":false, \"moduleAttrStatus\":3, \"moduleParams\" :{}, \"properties\" :[ {\"code\":\"dds_dbversion\", \"name\":\"4.2\", \"value\":\"4.2\"} ] }, {\"componentCode\":\"dds_class\", \"free\":false, \"moduleAttrStatus\":3, \"moduleParams\" :{}, \"properties\" :[ {\"code\":\"dds_class\", \"name\":\"dds.mongo.mid\", \"value\":\"dds.mongo.mid\"} ] }, {\"componentCode\":\"dds_storage\", \"free\":false, \"moduleAttrStatus\":3, \"moduleParams\" :{}, \"properties\" :[ {\"code\":\"dds_storage\", \"name\":\"10\", \"value\":\"10\"} ] }, {\"componentCode\":\"replication_factor\", \"free\":false, \"moduleAttrStatus\":3, \"moduleParams\" :{}, \"properties\" :[ {\"code\":\"replication_factor\", \"name\":\"5\", \"value\":\"5\"} ] }, {\"componentCode\":\"readonly_replicas\", \"free\":false, \"moduleAttrStatus\":3, \"moduleParams\" :{}, \"properties\" :[ {\"code\":\"readonly_replicas\", \"name\":\"0\", \"value\":\"0\"} ] } ], \"duration\":1, \"free\":false, \"instanceId\":\"dds-bp1xxxxxxxxxxxxx\", \"migrateOrder\":false, \"orderParams\" :{}, \"orderType\":\"UPGRADE\", \"periodAlign\":false, \"prePayPostCharge\":false, \"pricingCycle\":\"Day\", \"quantity\":1, \"renewChange\":false, \"specUpdate\":false, \"syncToSubscription\":false, \"upgradeInquireFinancialValue\":true}], \"fromApp\":\"OpenApi\", \"orderParams\" :{ \"promotion_input_param\" :\"{\\\\\"promotionFilter\\\\\":{\\\\\"youhui_quan\\\\\":true}, \\\\\"promotionOptionCode\\\\\":\\\\\"youhui_quan\\\\\", \\\\\"promotionOptionNo\\\\\":\\\\\"youhuiquan_promotion_option_id_for_blank\\\\\"}, \\\\\"rateWithTax\\\\\":false, \\\\\"requestId\\\\\":\"82530058-D4CF-49A4-96FB-9DD2DF3CE93E\", \\\\\"token\\\\\":\"xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx\", \\\\\"userId\\\\\":140xxxxxxxxxxx}\",\n    \"Rules\" : {\n      \"Rule\" : [ {\n        \"RuleDescId\" : \"102xxxxxxxxxxxxxx\",\n        \"Name\" : \"Sample coupon\"\n      } ]\n    }\n  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

23.2.

ModifyInstanceAutoRenewalAttribute

Enables or disables auto-renewal for an ApsaraDB for MongoDB instance.

Before you call this operation, make sure that you fully understand the billing methods and [pricing](#).

This operation is applicable to subscription instances.

 **Note** When auto-renewal is enabled, your payment will be collected nine days before the expiration date of ApsaraDB for MongoDB. Ensure that your account has sufficient balance.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ModifyInstanceAutoRenewalAttribute	The operation that you want to perform. The operation that you want to perform. Set the value to ModifyInstanceAutoRenewalAttribute .
RegionId	String	Yes	cn-hangzhou	The region ID of the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of the instance.
DBInstanceId	String	Yes	dds-bp15da1923e3***	The ID of the instance.
Duration	String	No	1	<p>The auto-renewal period. Valid values: 1 to 12. Unit: month.</p> <p> Note This parameter is valid only when AutoRenew is set to true.</p>

Parameter	Type	Required	Example	Description
AutoRenew	String	Yes	true	<p>Specifies whether to enable auto-renewal. Valid values:</p> <ul style="list-style-type: none">• true• false <p>Note If this parameter is set to true, you must set the Duration parameter.</p>

Response parameters

Parameter	Type	Example	Description
RequestId	String	EFD65226-08CC-4C4D-B6A4-CB3C382F67B0	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=ModifyInstanceAutoRenewalAttribute
&RegionId=cn-hangzhou
&DBInstanceId=dds-bp15da1923e3****
&Duration=1
&AutoRenew=true
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ModifyInstanceAutoRenewalAttributeResponse>
    <RequestId>EFD65226-08CC-4C4D-B6A4-CB3C382F67B0</RequestId>
</ModifyInstanceAutoRenewalAttributeResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
    "RequestId" : "EFD65226-08CC-4C4D-B6A4-CB3C382F67B0"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

23.3. TransformToPrePaid

Changes the billing method of an ApsaraDB for MongoDB instance from pay-as-you-go to subscription.

Before you call this operation, make sure that you understand the billing methods and [pricing](#).

A subscription instance cannot be changed to a pay-as-you-go instance. To avoid wasting resources, proceed with caution.

Before you call this API operation, make sure that the ApsaraDB for MongoDB instance meets the following requirements:

- The instance is in the running state.
- The billing method of the instance is pay-as-you-go.
- The instance has no unpaid subscription orders.
- The instance type is available for purchase. For more information about unavailable instance types, see [Instance types](#).

 **Note** To change the billing method of an instance whose instance type is no longer available to subscription, call the [ModifyDBInstanceSpec](#) or [ModifyNodeSpec](#) operation to first change the instance type.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	TransformToPreP aid	The operation that you want to perform. Set the value to TransformToPrePaid .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of the instance.
InstanceId	String	Yes	dds- bp1366caac83*** *	The ID of the instance.
Period	Long	Yes	1	The subscription duration of the instance. Unit: months. Valid values: 1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 24, and 36.

Parameter	Type	Required	Example	Description
AutoPay	Boolean	No	true	<p>Specifies whether to enable automatic payment. Valid values:</p> <ul style="list-style-type: none"> • true: enables automatic payment. • false: disables automatic payment. <p>For more information, see Renew an ApsaraDB for MongoDB subscription instance.</p> <div style="background-color: #e1f5fe; padding: 5px;"> ? Note Default value: true. </div>
BusinessInfo	String	No	{ "ActivityId": "00000000"}	The business information. This is an additional parameter.
AutoRenew	String	No	true	<p>Specifies whether to enable auto-renewal for the instance. Valid values:</p> <ul style="list-style-type: none"> • true • false <div style="background-color: #e1f5fe; padding: 5px;"> ? Note Default value: false. </div>
CouponNo	String	No	youhuiquan_promotion_option_id_for_blank	The coupon code. Default value: youhuiquan_promotion_option_id_for_blank .

Response parameters

Parameter	Type	Example	Description
RequestId	String	2F42BB4E-461F-5B55-A37C-53B1141C****	The ID of the request.
OrderId	String	21022019252****	The ID of the order.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=TransformToPrePaid
&Period=1
&InstanceId=dds-bp1366caac83****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<TransformToPrePaidResponse>
<RequestId>2F42BB4E-461F-5B55-A37C-53B1141C****</RequestId>
<OrderId>21022019252****</OrderId>
</TransformToPrePaidResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "2F42BB4E-461F-5B55-A37C-53B1141C****",
  "OrderId" : "21022019252****"
}
```

Error codes

HttpCode	Error codes	Error message	Description
400	InsufficientBalance	Your account does not have enough balance.	The error message returned because your account balance is insufficient. Add funds to your account and try again.
403	RealNameAuthenticationError	Your account has not passed the real-name authentication yet.	The error message returned because the specified user has not completed real-name verification. Complete real-name verification and try again.

For a list of error codes, visit the [API Error Center](#).

23.4. RenewDBInstance

Manually renews a subscription instance.

Make sure that you fully understand the billing methods and [pricing](#) of ApsaraDB for MongoDB before you call this operation.

This parameter is only applicable to Subscription instances.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	No	RenewDBInstance	The operation that you want to perform. Set the value to RenewDBInstance .
DBInstanceId	String	Yes	dds-bpxxxxxxx	The ID of the instance.
Period	Integer	Yes	1	The period you set for the instance to implement payment renewal. Unit: months. Valid values: 1-9, 12, 24, and 36 .
CouponNo	String	No	1111111111111111 11	The coupon code. Default value: youhuiquan_promotion_option_id_for_blank .
AutoPay	Boolean	No	true	<p>Specifies whether to enable automatic payment for the instance. Valid values:</p> <ul style="list-style-type: none"> • true: enables automatic payment. Make sure that you have sufficient balance within your account. • false: disables automatic payment. You must perform the following operations to pay for the instance: Payment instructions: Log on to the console. In the upper-right corner, click Billing Management and select Billing Management from the drop-down list. The Billing Management page appears. In the left-side navigation pane, click Bills. On the Unpaid tab, click Make a Payment in the Actions column corresponding to the bill you want to pay. <p>Default value: true.</p>
BusinessInfo	String	No	{ "ActivityId": "00000000"}	The business information.

Parameter	Type	Required	Example	Description
ClientToken	String	No	ETnLkblzczshOTUbOCxxxxxxxxxx	The client token that is used to ensure the idempotence of the request. You can use the client to generate the value, but you must make sure that it is unique among different requests. The token can contain only ASCII characters and cannot exceed 64 characters in length.
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeDBInstanceAttribute operation to query the region ID of an instance.

Response parameters

Parameter	Type	Example	Description
OrderId	String	203317xxxxxxxx	The ID of the order.
RequestId	String	B118EF45-9633-4EE3-8405-42ED4373721B	The ID of the request.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=RenewDBInstance
&DBInstanceId=dds-bpxxxxxxxx
&Period=1
&<Common request parameters>
```

Sample success responses

XML format

```
<RenewDBInstanceResponse>
  <OrderId>2033xxxxxxxx</OrderId>
  <RequestId>B118EF45-9633-4EE3-8405-42ED4373721B</RequestId>
</RenewDBInstanceResponse>
```

JSON format

```
{
  "OrderId": "2033xxxxxxxx",
  "RequestId": "B118EF45-9633-4EE3-8405-42ED4373721B"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

23.5. DescribeRenewalPrice

Queries the monthly renewal price of an ApsaraDB for MongoDB instance.

This operation is applicable to subscription instances.

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DescribeRenewalPrice	The operation that you want to perform. Set the value to DescribeRenewalPrice .
RegionId	String	No	cn-hangzhou	The region ID of the instance. You can call the DescribeRegions operation to query the most recent region list.
BusinessInfo	String	No	{ "ActivityId": "00000000"}	The business information. This is an additional parameter.
CouponNo	String	No	youhuiquan_promotion_option_id_for_blank	The coupon code. Default value: youhuiquan_promotion_option_id_for_blank .
DBInstanceld	String	Yes	dds-bp12c5b040dc****	The ID of the instance.

Response parameters

Parameter	Type	Example	Description
Order	Object		The list of orders.
Coupons	Array of Coupon		Details about the coupons.

Parameter	Type	Example	Description
Coupon			
Description	String	coupondemo	The description of the coupon.
IsSelected	String	true	Indicates whether the coupon was selected.
CouponNo	String	youhuiquan_promotion_option_id_for_blank	The coupon number.
Name	String	youhuiquan111	The name of the coupon.
OriginalAmount	Float	1144.8	The original price of the order.
DiscountAmount	Float	1144.8	The discount amount of the order.
RuleIds	Array of String	11111111	The IDs of the matched rules.
TradeAmount	Float	0	The actual price of the order.
Currency	String	USD	<p>The type of the currency. Valid values:</p> <ul style="list-style-type: none"> • USD: United States dollar • JPY: Japanese Yen
RequestId	String	EFD65226-08CC-4C4D-B6A4-CB3C382F67B0	The ID of the request.
SubOrders	Array of SubOrder		The rules matching the coupons.
SubOrder			
OriginalAmount	Float	1144.8	The original price of the order.
DiscountAmount	Float	1144.8	The discount amount of the order.
RuleIds	Array of String	null	The IDs of the matched rules.
TradeAmount	Float	0	The actual price of the order.

Parameter	Type	Example	Description
Instanceld	String	dds-bp12c5b040dc****	The ID of the instance.
Rules	Array of Rule		Details about the promotion rules.
Rule			
RuleDesclId	Long	11111111	The ID of the rule.
Title	String	demo	The title of the rule.
Name	String	demoname	The name of the rule.

Examples

Sample requests

```
http(s)://mongodb.aliyuncs.com/?Action=DescribeRenewalPrice  
&DBInstanceId=dds-bp12c5b040dc****  
&<Common request parameters>  
``
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DescribeRenewalPriceResponse>
  <SubOrders>
    <SubOrder>
      <RuleIds>
        <RuleId>11111111</RuleId>
        <RuleId>11111111</RuleId>
        <RuleId>11111111</RuleId>
      </RuleIds>
      <OriginalAmount>1144.8</OriginalAmount>
      <TradeAmount>0</TradeAmount>
      <InstanceId>dds-bp12c5b040dc****</InstanceId>
      <DiscountAmount>1144.8</DiscountAmount>
    </SubOrder>
  </SubOrders>
  <RequestId>C45C9E98-289B-42F4-84C8-03FD5E29B3EB</RequestId>
  <Order>
    <RuleIds>
      <RuleId>11111111</RuleId>
    </RuleIds>
    <OriginalAmount>1144.8</OriginalAmount>
    <TradeAmount>0</TradeAmount>
    <Coupons>
    </Coupons>
    <DiscountAmount>1144.8</DiscountAmount>
    <Currency>USD</Currency>
  </Order>
  <Rules>
    <Rule>
      <Name>demo</Name>
      <RuleDescId>11111111</RuleDescId>
    </Rule>
  </Rules>
</DescribeRenewalPriceResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "SubOrders" : [
    "SubOrder" : [ {
      "RuleIds" : {
        "RuleId" : [ 11111111, 11111111, 11111111 ]
      },
      "OriginalAmount" : 1144.8,
      "TradeAmount" : 0,
      "InstanceId" : "dds-bp12c5b040dc****",
      "DiscountAmount" : 1144.8
    } ]
  },
  "RequestId" : "C45C9E98-289B-42F4-84C8-03FD5E29B3EB",
  "Order" : {
    "RuleIds" : {
      "RuleId" : [ 11111111 ]
    },
    "OriginalAmount" : 1144.8,
    "TradeAmount" : 0,
    "Coupons" : {
      "Coupon" : [ ]
    },
    "DiscountAmount" : 1144.8,
    "Currency" : "USD"
  },
  "Rules" : {
    "Rule" : [ {
      "Name" : "demo",
      "RuleDescId" : 11111111
    } ]
  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

24. Appendix

24.1. Error codes

This topic describes the error codes of ApsaraDB for MongoDB.

Description	Code	Message	HTTP Status Code
The error message returned because unauthorized users call the operation.	Forbidden.RAM	User not authorized to operate on the specified resource, or this API doesn't support RAM.	403
The error message returned because this operation is not available for RAM users.	Forbedden.NotSupportRAM	This action does not support accessed by RAM mode.	403
The error message returned because an exception or error occurs on the server.	ServiceUnavailable	The request has failed due to a temporary failure of the server.	503
The error message returned because the instance status that you specified does not exist.	InvalidStatus.NotFound	The Status provided does not exist in our records.	404
The error message returned because the specified value of the parameter is invalid.	InvalidParameter	The specified parameter "InstanceName" is not valid.	400
The error message returned because a normal user other than an administrator calls the management operation.	Forbbiden.NotAdminUser	User not authorized to operate on the specified API as you are not the administrator.	403
The error message returned because the parameter is missing.	MissingParameter	Specified parameter is missing.	400
The error message returned because neither the InstanceName nor NewPassword parameter is specified.	MissingParameter	InstanceId/NewPassword at least one is mandatory for this action.	400

Description	Code	Message	HTTP Status Code
The error message returned because the OwnerId parameter is not specified.	MissingParameter	The input parameter OwnerId,OwnerAccount that is mandatory for processing this request is not supplied.	403
The error message returned because the specified Token parameter is invalid.	InvalidToken.Malformed	The Specified parameter \"Token\" is not valid.	400
The error message returned because the specified InstanceName parameter is invalid.	InvalidInstanceName.Malformed	The Specified parameter \"InstanceId\" is not valid.	400
The error message returned because the specified Password parameter is invalid.	InvalidPassword.Malformed	The Specified parameter \"Password\" is not valid.	400
The error message returned because the specified Instances parameter is invalid.	InvalidInstances.Malformed	The Specified parameter \"Instances\" is not valid.	400
The error message returned because the specified StartTime parameter is invalid.	InvalidStartTime.Malformed	The Specified parameter \"StartTime\" is not valid.	400
The error message returned because the specified EndTime parameter is invalid.	InvalidEndTime.Malformed	The Specified parameter \"EndTime\" is not valid.	400
The error message returned because the specified Instancelds parameter is invalid.	InvalidInstancelds.Malformed	The Specified parameter \"Instancelds\" is not valid.	400
The error message returned because the balance is insufficient.	InsufficientBalance	Your account does not have enough balance.	400
The error message returned because your account fails to pass the real-name authentication.	RealNameAuthenticationError	Your account has not passed the real-name authentication yet.	403

Description	Code	Message	HTTP Status Code
The error message returned because your instance quota has been reached.	QuotaExceed	Living afterpay instances quota exceeded.	400
The error message returned because the capacity configuration is invalid.	InvalidCapacity.NotFound	The Capacity provided does not exist in our records.	400
The error message returned because the two specified requests use the same client token.	IdempotentParameterMismatch	Request uses a client token in a previous request but is not identical to that request.	400
The error message returned because the inventory of instances in the specified zone is insufficient.	QuotaNotEnough	Quota not enough in this zone.	400
The error message returned because you are not authorized to call the order-class API.	Forbidden.SubUser	The specified action is not available for you.	403
The error message returned because the Apsara Stack risk control system denies this access request.	Forbidden.RiskControl	This operation is forbidden by Aliyun Risk Control system.	403
The error message returned because the specified region does not exist.	InvalidRegion.NotFound	The RegionId or ZoneId provided does not exist in our records.	404
The error message returned because the specified ZoneId parameter is invalid.	InvalidZoneId.NotFound	The ZoneId provided is invalid.	400
The error message returned because the specified instance ID does not exist.	InvalidInstanceId.NotFound	The InstanceId provided does not exist in our records.	404
The error message returned because the password is incorrect.	IncorrectPassword	The Password provided is not correct.	400

Description	Code	Message	HTTP Status Code
The error message returned because the specified service is not available.	ServiceNotSupported	The specified service is not supported.	400
The error message returned because a renewal and configuration change order has not taken effect.	HasRenewChangeOrder	This instance has a renewChange order.	400
The error message returned because an internal error occurred.	InternalError	The request processing has failed due to some unknown error.	500
The error message returned because the backup time is invalid.	InvalidPreferredBackupTime	Specified preferred backup time is not valid.	400
The error message returned because the specified backup type is invalid.	InvalidBackupType.Format	Specified backup type is not valid.	400
The error message returned because the specified backup method is invalid.	InvalidBackupMethod.Format	Specified backup method is not valid.	400
The error message returned because the specified instance already has a backup task.	BackupJobExists	A backup job already exists in the specified DB instance.	400
The error message returned because the backup times exceed the upper limit.	BackupTimesExceeded	Exceeding the daily backup times of this DB instance.	400
The error message returned because at least one parameter must be specified.	ParameterLeastAssociate	Must input at least one optional parameter.	400
The error message returned because the specified backup cycle is invalid.	InvalidBackupRetentionPeriod.Malformed	Specified backup retention period is not valid.	400

Description	Code	Message	HTTP Status Code
The error message returned because the specified next backup time is invalid.	InvalidPreferredBackupTime.Format	Specified preferred backup time is not valid.	400
The error message returned because the specified backup cycle is invalid.	InvalidPreferredBackupPeriod.Malformed	Specified backup period is not valid.	400
The error message returned because the current instance type does not support this operation.	IncorrectDBInstanceType	Current DB instance type does not support this operation.	400
The error message returned because the specified key is invalid.	InvalidKey.Malformed	Specified key is not valid.	400
The error message returned because the nonce signature is used and cannot be used again.	SignatureNonceUsed	Specified signature nonce was used already.	400
The error message returned because no available virtual IP addresses can be allocated.	AllocateVpcIp.NotEnough	Ip resource is not enough.	400
The error message returned because instances of the specified type cannot be created in the zone.	Zone.NotSupport	Specified zone does not support creating with instance class.	400
The error message returned because the code for the instance type is invalid.	MissingClassCode	Capacity or InstanceClass is mandatory for this action.	400
The error message returned because the specified instance type is not supported.	InvalidDBInstanceClass.NotFound	Specified DB instance class is not found.	404
The error message returned because the specified instance has been locked.	IncorrectDBInstanceLockMode	Current DB instance lock mode does not support this operation.	400

Description	Code	Message	HTTP Status Code
The error message returned because the specified backup set ID does not exist.	InvalidBackupSetID.NotFound	Specified backup set ID does not exist.	400
The error message returned because the operation is not supported while the instance is in the current state.	IncorrectDBInstanceState	Current DB instance state does not support this operation.	400
The error message returned because the available resource capacity in the specified instance is insufficient.	InsufficientResourceCapacity	There is insufficient capacity available for the requested instance.	400
The error message returned because the specified end time is invalid.	InvalidEndTime.Format	Specified end time is not valid.	400
The error message returned because the specified retention period of the classic network endpoint is invalid.	InvalidClassicExpiredDays.Format	The specified classicExpiredDays format is not valid.	400
The error message returned because the operation is not supported while the backup set is in the current state.	IncorrectBackupSetState	Current backup set state does not support operations.	400
The error message returned because the specified whitelist is not correct in format.	InvalidSecurityIPList.Format	Specified security IP list format is not valid.	400

24.2. Instance specifications

The instance specification table describes detailed information about the instance specifications supported by the ApsaraDB for MongoDB.

For more information, see [Instance specifications](#).

24.3. Instance states

This topic lists the states of ApsaraDB for MongoDB instances.

Instance state	Description
Creating	The instance is being created.
DBInstanceClassChanging	The instance is being upgraded or downgraded.
DBInstanceNetTypeChanging	The network type of the instance is being changed.
Deleting	The instance is being deleted.
EngineVersionUpgrading	The version of the database engine that the instance runs is being upgraded.
GuardSwitching	A failover operation is being performed for an instance in a disaster recovery scenario.
HASwitching	The instance is undergoing a primary/secondary switchover.
Importing	Data is being imported to the instance.
ImportingFromOthers	A database is being imported into the instance.
LinkSwitching	The instance is undergoing a link switching.
MinorVersionUpgrading	The minor version of the instance is being upgraded.
NET_CREATING	A network connection to the instance is being created.
NET_DELETING	A network connection to the instance is being deleted.
NodeCreating	A node is being created in the instance.
NodeDeleting	A node is being deleted in the instance.
Rebooting	The instance is being restarted.
Restoring	The instance is being restored from a backup set.
Running	The instance is running.
SSLModifying	The SSL status of the instance is changing.
TempDBInstanceCreating	A temporary instance is being created.
Transing	The instance is being migrated.
TransingToOthers	A database in the instance is being migrated.
AuditLogOpening	The audit log feature is being enabled for the instance.

Instance state	Description
AuditLogClosing	The audit log feature is being disabled for the instance.

24.4. Performance metrics

This topic lists the metrics in the performance metric table.

Metric	Key
CPU utilization	CpuUsage
Memory usage	MemoryUsage
IOPS	MongoDB_IOPS
I/O % utilization	IOPSUsage
Disk usage	MongoDB_DetailedSpaceUsage
Disk % usage	DiskUsage
Opcounters	MongoDB_Opcounters
Connections	MongoDB_Connections
Cursors	MongoDB_Cursors
Network	MongoDB_Network
GlobalLock	MongoDB_Global_Lock_Current_Queue
WiredTiger	MongoDB_Wt_Cache
Primary/Secondary Replication Latency	MongoDB_Repl_Lag
WT Request Queues	MongoDB_Wt_Concurrent_Trans
IO Latency	MongoDB_locheck_Cost

24.5. Details of the DBInstances parameter in the DescribePrice operation

This topic describes the subparameters of the DBInstances parameter that is used in the DescribePrice operation. You can call the DescribePrice operation to query the fees incurred when you create, upgrade, or renew an ApsaraDB for MongoDB instance.

Parameter	Type	Required	Description	Example
DBInstanceId	String	No	<p>The ID of the instance. You can call the DescribeDBInstances operation to query the list of one or more ApsaraDB for MongoDB instances.</p> <p>Note This parameter is required when the order type is configuration change or instance renewal.</p>	dds-bp13bbf2407f***
RegionId	String	Yes	The region ID of the instance. You can call the DescribeRegions operation to query the most recent region list.	cn-hangzhou
ZoneId	String	Yes	The zone ID of the instance. You can call the DescribeRegions operation to query the most recent zone list.	cn-hangzhou-h
Engine	String	Yes	The database engine of the instance. Set the value to MongoDB .	MongoDB
EngineVersion	String	Yes	<p>The database engine version of the instance. Valid values:</p> <ul style="list-style-type: none"> • 3.4 • 4.0 • 4.2 	4.2
DBInstanceClass	String	No	The instance type of the instance. For more information, see Instance types .	dds.mongo.mid
DBInstanceStorage	String	Yes	The storage capacity of the instance. Unit: GB.	20
ReplicationFactor	String	No	The number of nodes in the instance. Valid values: 1, 3, 5, and 7.	3
NetworkType	String	No	<p>The network type of the instance. Default value: Classic. Valid values:</p> <ul style="list-style-type: none"> • VPC • Classic 	VPC
VPCId	String	No	<p>The ID of the virtual private cloud (VPC).</p> <p>Note This parameter is required when the NetworkType parameter is set to VPC.</p>	vpc-bp1q2qqm4vxo6e6zl***

Parameter	Type	Required	Description	Example
VSwitchId	String	No	<p>The ID of the vSwitch.</p> <p>Note This parameter is required when the NetworkType parameter is set to VPC.</p>	vsw-bp1lb40helio22b6d****
ChargeType	String	No	<p>The billing method of the instance. Valid values:</p> <ul style="list-style-type: none"> PostPaid: pay-as-you-go PrePaid: subscription 	PostPaid
AutoPay	String	No	<p>Specifies whether to enable auto-renewal for the instance. Valid values:</p> <ul style="list-style-type: none"> True: enables auto-renewal for the instance. False: disables auto-renewal for the instance. 	True
Period	String	No	<p>The subscription period of the instance. Unit: months.</p> <p>Note This parameter is required when the ChargeType parameter is set to PrePaid.</p>	1
configServers	JSON	No	<p>The type of the Configserver node in a sharded cluster instance. The following section describes the subparameters:</p> <ul style="list-style-type: none"> nodeClass: the type of the Configserver node. nodeStorage: the storage capacity of the Configserver node. <p>Default value:</p> <pre>[{"nodeClass": "dds.cs.mid", "nodeStorage": "20"}]</pre>	[{"nodeClass": "dds.cs.mid", "nodeStorage": "20"}]
mongos	JSON	No	<p>The types of the mongos nodes in a sharded cluster instance. The following section describes the subparameter:</p> <p>nodeClass: the type of the mongos node.</p> <p>For more information, see Instance types.</p>	[{"nodeClass": "dds.mongos.mid"}, {"nodeClass": "dds.mongos.mid"}]

Parameter	Type	Required	Description	Example
shards	JSON	No	<p>The types of the shard nodes in a sharded cluster instance. The following section describes the subparameters:</p> <ul style="list-style-type: none">• nodeClass: the type of the shard node.• nodeStorage: the storage capacity of the shard node.• ReadonlyReplicas: the number of read-only nodes. Valid values: 0, 1, 2, 3, 4, and 5. <p>For more information, see Instance types.</p>	[{"nodeClass": "dds.shard.mid", "ReadonlyReplicas": "1", "nodeStorage": "10"}, {"nodeClass": "dds.shard.mid", "ReadonlyReplicas": "1", "nodeStorage": "10"}]