

ApsaraDB for MongoDB

Quick Start for Replica Set

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Quick start flowchart

If you use Alibaba Cloud ApsaraDB for MongoDB for the first time, read MongoDB usage instructions and Introduction to MongoDB Console first.

Generally, you need to perform the following operations from instance buying to instance use.



Purpose of the document

This document describes how to create a MongoDB instance, perform basic settings, and connect the instance database, helping users know the procedures from buying a MongoDB instance to using the instance.

Target reader

Users buying a MongoDB instance for the first time.

Users who need to perform basic settings for the instance they created.

Users who want to know how to connect a MongoDB instance.

Create an instance

ApsaraDB for MongoDB was officially launched for commercial operation on March 18, 2016. During

commercial operation, China North 1, China North 2, China East 1, China East 2, and China South 1 physical nodes are available for purchase. For the specific purchase and activation procedures, please refer to [Purchasing](#).

Retrieve the seven connection elements

ApsaraDB for MongoDB initializes a three-node replica set. You can use the connection addresses of two data nodes out of the three that are made available to access the data nodes.

The seven elements used to connect to ApsaraDB for MongoDB instances are: instance username, password, replica set name, and the domain name addresses and port numbers for two nodes.

Log onto the ApsaraDB for MongoDB console to view all connection elements except for the password, as shown below:

The screenshot displays the ApsaraDB for MongoDB console interface. On the left is a navigation sidebar with options: 基本信息 (Basic Information), 备份与恢复 (Backup and Recovery), 监控信息 (Monitoring Information), 报警规则 (Alert Rules), and 安全控制 (Security Control). The main content area is divided into three sections: 基本信息 (Basic Information), 帐号管理 (Account Management), and 连接信息 (Connection Information). The 基本信息 section shows instance details like ID, name, region, specification, disk space, creation time, and expiration time. The 帐号管理 section shows the account name 'root' with a red box highlighting it. The 连接信息 section shows the version, replica set name 'mgset-1916099' (highlighted with a red box), and two data nodes with their connection addresses (highlighted with a red box). A link for external connection instructions is provided at the bottom.

基本信息		变更配置
实例ID	dds-bp11a60932332024	名称: dds-bp11a6093233...
地域	华东 1 可用区 B	网络类型: 经典网络
规格	1核2G	磁盘空间: 20 G
创建于	2016-09-20 15:12:00	到期时间: 按量付费实例需自行释放

帐号管理		重置密码
帐号名	root (权限为admin数据库下的root权限)	

连接信息	
版本	3.2
副本集名称	mgset-1916099
节点1	dds-bp11a60932332024-mongod01rds.aliyuncs.com:3717
节点2	dds-bp11a60932332024-mongod02rds.aliyuncs.com:3717
外网连接: 需要外网连接? 请参考: For Ecs Linux , For Ecs Windows	

Note: The login password is set when the instance is first created. If it was not set during creation, click **Reset Password** to set a new login password.

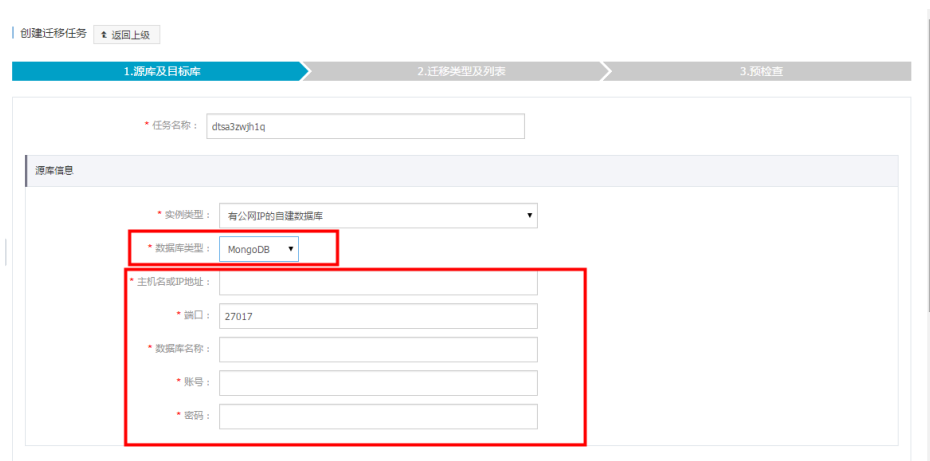
Import data

ApsaraDB for MongoDB currently provides two migration solutions, but does not support online data migration. During migration, writes to the source database must be suspended for a time.

Use DTS (data transmission service) for migration

Log onto the MongoDB Console, click the instance ID or **Manage** to go to the **Basic Information** page, and select **Self-built MongoDB Migration** to go to the **Create Migration Task** page.

Select MongoDB as the database type and enter the source database connection information.



Then, use the Data Transmission Service (DTS) Migration Wizard to perform migration operation.

For detailed instructions, refer to the DTS Manual.

Use the built-in command line tool for migration

MongoDB has built-in `mongodump` and `mongorestore` command lines that can import and export data.

Note: Please use the `mongodump` and `mongorestore` tools of MongoDB version 3.0 or above.

Back up self-built database data.

First, you need to connect to the self-built database and select an account with the relevant permissions. Then, execute `'mongodump'` to export the content of the self-built database. For example, execute the following statement to export the all databases and create a backup file named `"dump"`.

```
mongodump --host xxx:27017 --authenticationDatabase admin -u xxx -p xxx
```

For details, refer to [mongodump Command Official Documentation](#).

Import the backup file into ApsaraDB for MongoDB.

Execute the 'mongorestore' command based on the backup file created in the previous step to import all data into ApsaraDB for MongoDB. For example, execute the following statement to import the entire database.

```
mongorestore --host dds-xxx:3717 --authenticationDatabase admin -u root -p xxx dump
```

Data export

Export to a local MongoDB database

ApsaraDB for MongoDB supports routine backup task settings and temporary backup. You can regularly or occasionally implement backup tasks and then perform data export by downloading the backup file.

Go to the **Console** > **Backup Recovery** > **Backup List**.

Select the target backup set and then click **Download**.

After manually downloading the backup file, create a local MongoDB environment.

Execute the 'mongorestore' command to conveniently complete data export. For example, execute the following command to import data:

```
cat xx.ar (file downloaded from the console) | mongorestore -h xxx --port xxx -u[root user] -p[root password] --drop --gzip --archive -vvvv --stopOnError
```

Migrate to another ApsaraDB for MongoDB instance

By using the backup file to create a new instance, you can export the data to another ApsaraDB for MongoDB instances.

Go to the **Console** > **Backup Recovery** > **Backup List**.

Select a single backup set and, click **Create Instance from Backup Point** to go to the purchase page before creating an instance.

Select Subscription or Pay-As-You-Go as the instance billing method.

Note: The new instance must be in the same physical region as the original instance and the memory specification and disk size should be as close as possible to the configuration of the original instance.