

RDS for MariaDB

Getting Started

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1 (Recommended) Buying an RDS for MariaDB Instance and Connecting to It Through DAS

Data Admin Service (DAS) enables you to connect to and manage DB instances with ease on a web-based console. The permission required for connecting to DB instances through DAS has been enabled for you by default. Using DAS to connect to your DB instance is recommended, which is more secure and convenient.

This section describes how to buy an RDS for MariaDB instance and how to connect to the instance through DAS.

Operation Process

Process	Description
Preparations	Sign up for a HUAWEI ID, enable Huawei Cloud services, make sure you have a valid payment method configured, create IAM users, and grant them specific RDS permissions.
Step 1: Buy an RDS for MariaDB Instance	Select required basic settings and additional options and buy an RDS for MariaDB instance.
Step 2: Connect to the RDS for MariaDB Instance	Connect to the RDS for MariaDB instance through DAS.

Preparations

1. [Sign up for a HUAWEI ID and enable Huawei Cloud services.](#)
2. Before purchasing DB instances, ensure that your account balance is sufficient. [Top up your account](#) if required.
3. For fine-grained permissions management on Huawei Cloud resources, use Identity and Access Management (IAM) to create a user and user group and

grant it specific operation permissions. For details, see [Creating a User and Granting Permissions](#).

Step 1: Buy an RDS for MariaDB Instance

1.

Go to the [Buy DB Instance](#) page.
2.

On the **Custom Config** page, select a billing mode and configure information about your DB instance. Then, click **Buy**.

–

Engine options

Figure 1-1 Basic information

Basic Settings

Region

CN-Hong Kong

Regions are geographic areas isolated from each other. For low network latency and quick resource access, select the nearest region.

Billing Mode

Yearly/Monthly

Pay-per-use

Engine Options

DB Engine

MySQL

PostgreSQL

Microsoft SQL Server

MariaDB

DB Engine Version

10.5

DB Instance Type

Primary/Standby

Primary/standby HA architecture is suitable for production databases in large- and medium-sized enterprises, or for applications in Internet, IoT, retail e-commerce, logistics, and gaming industries.

Single

Single-node architecture is cost-effective and suitable for developing and testing of microsites, and small- and medium-sized enterprises, or for learning about RDS.

Parameter	Example Value	Description
Region	CN-Hong Kong	The region where your resources are located. NOTE Products in different regions cannot communicate with each other through a private network. After a DB instance is created, the region cannot be changed. Therefore, exercise caution when selecting a region.

Parameter	Example Value	Description
Billing Mode	Pay-per-use	The billing mode of an instance. • Yearly/Monthly: A prepaid billing mode in which you pay for resources before using it. Bills are settled based on the subscription period. The longer the subscription, the bigger the discount. This mode is a good option for long-term, stable services. • Pay-per-use: A postpaid billing mode. You pay as you go and just pay for what you use. The DB instance usage is calculated by the second but billed every hour. This mode allows you to adjust resource usage easily. You neither need to prepare for resources in advance, nor end up with excessive or insufficient preset resources.
DB Engine	MariaDB	The DB engine of an instance.
DB Engine Version	10.5	For details, see DB Engines and Versions . Supported DB engine versions may vary by region. For the actual options, see them on the console.
DB Instance Type	Primary/Standby	The architecture type of an instance. • Primary/Standby: An HA architecture. In a primary/standby pair, each instance has the same instance class. When a primary instance is being created, a standby instance is provisioned along with it to provide data redundancy. The standby instance is invisible to you after being created. • Single: A single-node architecture is less expensive than a primary/standby DB pair. It is only recommended for development and testing of microsites, and small and medium enterprises, or for learning about RDS.

Parameter	Example Value	Description
Storage Type	Cloud SSD	The storage type determines the read/write speed of an instance. A higher maximum throughput enables faster I/O operations. • Cloud SSD: cloud disks used to decouple storage from compute. The maximum throughput is 350 MB/s. • Extreme SSD: The disks combine the 25GE network and RDMA technologies to provide you with up to 1,000 MB/s throughput per disk and sub-millisecond latency.
AZ	az1	An AZ is a physical region where resources have independent power supply and networks. AZs are physically isolated but interconnected through an internal network. Some regions support both single-AZ and multi-AZ deployment and some only support single-AZ deployment. To achieve high reliability, RDS will automatically deploy your primary and standby instances in different physical servers even if you deploy them in the same AZ. You can deploy your primary and standby instances in a single AZ or across AZs to achieve failover and high availability.

- Instance configuration

Figure 1-2 Instance configuration

Instance Configuration

Instance Class ⓘ

Dedicated

General-purpose

[Learn more](#)

vCPUs | Memory

☒ 2 vCPUs | 4 GB

☐ 2 vCPUs | 8 GB

☐ 2 vCPUs | 16 GB

☐ 4 vCPUs | 8 GB

☐ 4 vCPUs | 16 GB

☐ 4 vCPUs | 32 GB

DB Instance Specifications `mariadb.x1.large.2.hs` | 2 vCPUs | 4 GB (Dedicated)

Storage Space ⓘ

40830162024104000

−

40

+

GB

Backup Space

RDS provides 40 GB of free backup storage, the same size as your purchased storage space.

After the free backup space is used up, you will be billed for the additional space. After an instance is created, an automated backup will be created and saved for seven days. [Backup Space Billing](#)

Parameter	Example Value	Description
Instance Class	General-purpose 2U 4G	The vCPU and memory of an instance. Different instance classes support different numbers of database connections and maximum IOPS. After a DB instance is created, you can change its vCPUs and memory .
Storage Space	40 GB	It contains the system overhead required for inodes, reserved blocks, and database operation. Storage space can range in size from 40 GB to 4,000 GB and can be scaled up only by a multiple of 10 GB. After a DB instance is created, you can scale up its storage space. For details, see Scaling Up Storage Space .

- Basic settings and connectivity

Figure 1-3 Basic settings and connectivity

Basic Settings

DB Instance Name ⓘ

rds-8c33

If you buy multiple DB instances at a time, they will be named with four digits appended in the format "DB instance name-SN". For example, if the DB instance name is "instance", the first instance will be named "instance-0001", the second "instance-0002", and so on.

Administrator

Administrator Password

Confirm Password

root

Enter a value.

Enter a value.

Keep your password secure. The system cannot retrieve your password.

Connectivity

VPC ⓘ

Q Create VPC ↗

The VPC an RDS instance is deployed in cannot be changed later. ECSs in different VPCs cannot communicate with each other by default.

Subnet

Q

An EIP is required if you want to access DB instances through a public network. [View EIP ↗](#)

IPv4 Address

.

.

.

Addresses available: 251 [View In-use IP Addresses](#)

Security Group ⓘ

Parameter	Example Value	Description
DB Instance Name	rds-1d43	Must start with a letter and consist of 4 to 64 characters. Only letters (case-sensitive), digits, hyphens (-), and underscores (_) are allowed. • If you intend to buy multiple DB instances at a time, the allowed length for each instance name will change. • If you create multiple DB instances at a time, their names will include a four-digit suffix. For example, if you specify instance here, the names will be <i>instance-0001</i>, <i>instance-0002</i>, and so on. If existing instances' suffixes have already reached up to <i>0010</i>, the new instance names will start from <i>instance-0011</i>.

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Parameter	Example Value	Description
Administrator	root	The default login name for the database is root .
Administrator Password	****	Must consist of 8 to 32 characters and contain the following character types: uppercase letters, lowercase letters, digits, and special characters (~!@#\$%^*_+=?,<(),&). Enter a strong password and periodically change it for security reasons. If the password you provide is regarded as a weak password by the system, you will be prompted to enter a stronger password. Keep this password secure. The system cannot retrieve it. After a DB instance is created, you can reset this password. For details, see Resetting the Administrator Password.
Confirm Password	****	Must be the same as Administrator Password .
Enterprise Project	default	If your account has been associated with an enterprise project, select the target project from the Enterprise Project drop-down list. For more information about enterprise projects, see Enterprise Management User Guide.
VPC	default_vpc	The virtual network in which your instance is located. A VPC can isolate networks for different workloads. You can select an existing VPC or create a VPC. For details about how to create a VPC, see Creating a VPC and Subnet. If no VPC is available, RDS allocates a VPC to you by default. NOTICE After a DB instance is created, the VPC cannot be changed.

Parameter	Example Value	Description
Subnet	default_subnet	A subnet provides dedicated network resources that are logically isolated from other networks for network security. Subnets are only valid within a specific AZ. Dynamic Host Configuration Protocol (DHCP) is enabled by default for subnets where you plan to create DB instances and cannot be disabled. A floating IP address is automatically assigned when you create a DB instance. You can also enter an unused IPv4 IP address in the subnet CIDR block.
Security Group	default	Enhances security by controlling access to your DB instance from other services. A network access control list (ACL) can help control inbound and outbound traffic of subnets in your VPC. Ensure that the security group you select allows the client to access the DB instance. If no security group is available or has been created, the system allocates a security group to you by default.

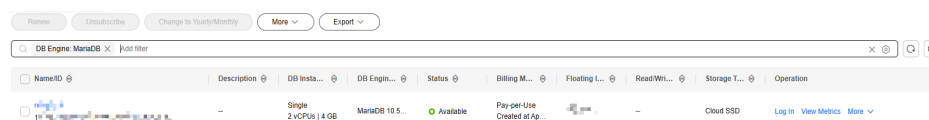
■ Additional options

Parameter	Example Value	Description
Parameter Template	Default-MariaDB-10.5	Contains engine configuration values that can be applied to one or more DB instances. If you intend to create a primary/standby DB pair, they use the same parameter template. You can modify the instance parameters as required after the instance is created. For details about how to modify parameters of a DB instance, see Modifying Instance Parameters.
Time Zone	Select a time zone as required.	You need to select a time zone for your instance based on the region hosting your instance. You can change the time zone after the DB instance is created.

Parameter	Example Value	Description
Table Name	Case insensitive	Specifies whether table names are case sensitive. NOTE The case sensitivity of table names for created instances cannot be changed.
Tag	test	Tags an RDS instance. This parameter is optional. Adding tags to RDS instances helps you better identify and manage the DB instances. A maximum of 20 tags can be added for each DB instance. If your organization has configured tag policies for RDS, add tags to DB instances based on the policies. If a tag does not comply with the policies, DB instance creation may fail. Contact your organization administrator to learn more about tag policies. After a DB instance is created, you can view its tag details on the Tags page. For details, see Managing Tags .
Quantity	1	The number of instances to be created in a batch.

3. Click **Buy**.
4. Confirm the details, read and agree to the agreement, and click **Submit**. Go back to the **Instances** page and check for the purchased instance.

Figure 1-4 Instance successfully purchased



Step 2: Connect to the RDS for MariaDB Instance

- Step 1** On the **Instances** page, locate the DB instance and click **Log In** in the **Operation** column.

Figure 1-5 Login page

Instance Login Information

DB Instance Name rds-6d74 DB Engine Version MariaDB 10.5

* Login Username

* Password

✓ Connection is successful.

☒ Remember Password Your password will be encrypted and stored securely.

Description

Show Executed SQL Statements ☐ If not enabled, the executed SQL statements cannot be viewed, and you need to input each SQL statement manually.

Step 2 Enter the database username and password and click **Test Connection**.

After the connection test is successful, click **Log In**.

For details about how to manage databases on DAS, see [RDS for MariaDB Database Management](#).

----End

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Buying an RDS for MariaDB Instance and Connecting to It Using a MariaDB Client

After buying a DB instance, you can connect to it using a Linux ECS with a MariaDB client installed over a private network. This section describes how to access a DB instance from an ECS using a standard MariaDB client.

Operation Process

Process	Description
Preparations	Sign up for a HUAWEI ID, enable Huawei Cloud services, make sure you have a valid payment method configured, create IAM users, and grant them specific RDS permissions.
Step 1: Buy an RDS for MariaDB Instance	Select required basic settings and additional options and buy an RDS for MariaDB instance.
Step 2: Buy an ECS	If you want to connect to a DB instance using a MariaDB client, you need to prepare a server, install the MariaDB client on the server, and run the connection command. Purchase a Linux ECS that is in the same region and VPC as your DB instance.
Step 3: Test Connectivity and Install a MariaDB Client	Test the network connectivity between the ECS and the floating IP address and port of the DB instance, and install a MariaDB client on the ECS.
Step 4: Connect to the DB Instance Using a CLI (Non-SSL Connection)	Use a command-line interface (CLI) to connect to the DB instance using the floating IP address and port.

Preparations

1. [Sign up for a HUAWEI ID and enable Huawei Cloud services.](#)
2. Before purchasing DB instances, ensure that your account balance is sufficient. [Top up your account](#) if required.
3. For fine-grained permissions management on Huawei Cloud resources, use Identity and Access Management (IAM) to create a user and user group and grant it specific operation permissions. For details, see [Creating a User and Granting Permissions](#).

Step 1: Buy an RDS for MariaDB Instance

1. Go to the [Buy DB Instance](#) page.
2. On the **Custom Config** page, select a billing mode and configure information about your DB instance. Then, click **Buy**.
 - Engine options

Figure 2-1 Basic information

Basic Settings

Region
CN-Hong Kong

Regions are geographic areas isolated from each other. For low network latency and quick resource access, select the nearest region.

Billing Mode ⓘ
Yearly/Monthly Pay-per-use

Engine Options

DB Engine
MySQL PostgreSQL Microsoft SQL Server MariaDB

DB Engine Version
10.5

DB Instance Type
Primary/Standby
Primary/standby HA architecture is suitable for production databases in large- and medium-sized enterprises, or for applications in Internet, IoT, retail e-commerce, logistics, and gaming industries.
Single
Single-node architecture is cost-effective and suitable for developing and testing of microsites, and small- and medium-sized enterprises, or for learning about RDS.

Parameter	Example Value	Description
Region	CN-Hong Kong	The region where your resources are located. NOTE Products in different regions cannot communicate with each other through a private network. After a DB instance is created, the region cannot be changed. Therefore, exercise caution when selecting a region.

Parameter	Example Value	Description
Billing Mode	Pay-per-use	The billing mode of an instance. • Yearly/Monthly: A prepaid billing mode in which you pay for resources before using it. Bills are settled based on the subscription period. The longer the subscription, the bigger the discount. This mode is a good option for long-term, stable services. • Pay-per-use: A postpaid billing mode. You pay as you go and just pay for what you use. The DB instance usage is calculated by the second but billed every hour. This mode allows you to adjust resource usage easily. You neither need to prepare for resources in advance, nor end up with excessive or insufficient preset resources.
DB Engine	MariaDB	The DB engine of an instance.
DB Engine Version	10.5	For details, see DB Engines and Versions . Supported DB engine versions may vary by region. For the actual options, see them on the console.
DB Instance Type	Primary/Standby	The architecture type of an instance. • Primary/Standby: An HA architecture. In a primary/standby pair, each instance has the same instance class. When a primary instance is being created, a standby instance is provisioned along with it to provide data redundancy. The standby instance is invisible to you after being created. • Single: A single-node architecture is less expensive than a primary/standby DB pair. It is only recommended for development and testing of microsites, and small and medium enterprises, or for learning about RDS.

Parameter	Example Value	Description
Storage Type	Cloud SSD	The storage type determines the read/write speed of an instance. A higher maximum throughput enables faster I/O operations. • Cloud SSD: cloud disks used to decouple storage from compute. The maximum throughput is 350 MB/s. • Extreme SSD: The disks combine the 25GE network and RDMA technologies to provide you with up to 1,000 MB/s throughput per disk and sub-millisecond latency.
AZ	az1	An AZ is a physical region where resources have independent power supply and networks. AZs are physically isolated but interconnected through an internal network. Some regions support both single-AZ and multi-AZ deployment and some only support single-AZ deployment. To achieve high reliability, RDS will automatically deploy your primary and standby instances in different physical servers even if you deploy them in the same AZ. You can deploy your primary and standby instances in a single AZ or across AZs to achieve failover and high availability.

- Instance configuration

Figure 2-2 Instance configuration

Instance Configuration

Instance Class ^①

Dedicated General-purpose [Learn more](#)

vCPUs | Memory

☒ 2 vCPUs | 4 GB

☐ 2 vCPUs | 8 GB

☐ 2 vCPUs | 16 GB

☐ 4 vCPUs | 8 GB

☐ 4 vCPUs | 16 GB

☐ 4 vCPUs | 32 GB

DB Instance Specifications **mariadb.x1.large.2.hs | 2 vCPUs | 4 GB (Dedicated)**

Storage Space ^①

40 830 1620 2410 4000

40 GB

Backup Space

RDS provides 40 GB of free backup storage, the same size as your purchased storage space.

After the free backup space is used up, you will be billed for the additional space. After an instance is created, an automated backup will be created and saved for seven days. [Backup Space Billing](#)

Parameter	Example Value	Description
Instance Class	General-purpose 2U 4G	The vCPU and memory of an instance. Different instance classes support different numbers of database connections and maximum IOPS. After a DB instance is created, you can change its vCPUs and memory .
Storage Space	40 GB	It contains the system overhead required for inodes, reserved blocks, and database operation. Storage space can range in size from 40 GB to 4,000 GB and can be scaled up only by a multiple of 10 GB. After a DB instance is created, you can scale up its storage space. For details, see Scaling Up Storage Space .

- Basic settings and connectivity

Figure 2-3 Basic settings and connectivity

Basic Settings

DB Instance Name ⓘ

rds-8c33

If you buy multiple DB instances at a time, they will be named with four digits appended in the format "DB instance name-SN". For example, if the DB instance name is "instance", the first instance will be named "instance-0001", the second "instance-0002", and so on.

Administrator

Administrator Password

Confirm Password

root

Enter a value. ⓘ

Enter a value. ⓘ

Keep your password secure. The system cannot retrieve your password.

Connectivity

VPC ⓘ

Q Create VPC ↗

The VPC an RDS instance is deployed in cannot be changed later. ECSs in different VPCs cannot communicate with each other by default.

Subnet

Q

An EIP is required if you want to access DB instances through a public network. [View EIP](#) ↗

IPv4 Address

. . .

Addresses available: 251 [View In-use IP Addresses](#)

Security Group ⓘ

Parameter	Example Value	Description
DB Instance Name	rds-1d43	Must start with a letter and consist of 4 to 64 characters. Only letters (case-sensitive), digits, hyphens (-), and underscores (_) are allowed. - If you intend to buy multiple DB instances at a time, the allowed length for each instance name will change. - If you create multiple DB instances at a time, their names will include a four-digit suffix. For example, if you specify instance here, the names will be <i>instance-0001</i>, <i>instance-0002</i>, and so on. If existing instances' suffixes have already reached up to <i>0010</i>, the new instance names will start from <i>instance-0011</i>.

Parameter	Example Value	Description
Administrator	root	The default login name for the database is root .
Administrator Password	****	Must consist of 8 to 32 characters and contain the following character types: uppercase letters, lowercase letters, digits, and special characters (~!@#\$%^*_+=?,<(),&). Enter a strong password and periodically change it for security reasons. If the password you provide is regarded as a weak password by the system, you will be prompted to enter a stronger password. Keep this password secure. The system cannot retrieve it. After a DB instance is created, you can reset this password. For details, see Resetting the Administrator Password.
Confirm Password	****	Must be the same as Administrator Password .
Enterprise Project	default	If your account has been associated with an enterprise project, select the target project from the Enterprise Project drop-down list. For more information about enterprise projects, see Enterprise Management User Guide.
VPC	default_vpc	The virtual network in which your instance is located. A VPC can isolate networks for different workloads. You can select an existing VPC or create a VPC. For details about how to create a VPC, see Creating a VPC and Subnet. If no VPC is available, RDS allocates a VPC to you by default. NOTICE After a DB instance is created, the VPC cannot be changed.

Parameter	Example Value	Description
Subnet	default_subnet	A subnet provides dedicated network resources that are logically isolated from other networks for network security. Subnets are only valid within a specific AZ. Dynamic Host Configuration Protocol (DHCP) is enabled by default for subnets where you plan to create DB instances and cannot be disabled. A floating IP address is automatically assigned when you create a DB instance. You can also enter an unused IPv4 IP address in the subnet CIDR block.
Security Group	default	Enhances security by controlling access to your DB instance from other services. A network access control list (ACL) can help control inbound and outbound traffic of subnets in your VPC. Ensure that the security group you select allows the client to access the DB instance. If no security group is available or has been created, the system allocates a security group to you by default.

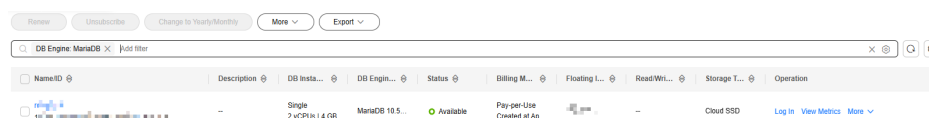
■ Additional options

Parameter	Example Value	Description
Parameter Template	Default-MariaDB-10.5	Contains engine configuration values that can be applied to one or more DB instances. If you intend to create a primary/standby DB pair, they use the same parameter template. You can modify the instance parameters as required after the instance is created. For details about how to modify parameters of a DB instance, see Modifying Instance Parameters.
Time Zone	Select a time zone as required.	You need to select a time zone for your instance based on the region hosting your instance. You can change the time zone after the DB instance is created.

Parameter	Example Value	Description
Table Name	Case insensitive	Specifies whether table names are case sensitive. NOTE The case sensitivity of table names for created instances cannot be changed.
Tag	test	Tags an RDS instance. This parameter is optional. Adding tags to RDS instances helps you better identify and manage the DB instances. A maximum of 20 tags can be added for each DB instance. If your organization has configured tag policies for RDS, add tags to DB instances based on the policies. If a tag does not comply with the policies, DB instance creation may fail. Contact your organization administrator to learn more about tag policies. After a DB instance is created, you can view its tag details on the Tags page. For details, see Managing Tags .
Quantity	1	The number of instances to be created in a batch.

3. Click **Buy**.
4. Confirm the details, read and agree to the agreement, and click **Submit**. Go back to the **Instances** page and check for the purchased instance.

Figure 2-4 Instance successfully purchased



Step 2: Buy an ECS

1. Go to the [Elastic Cloud Server console](#).
2. Check whether there is a Linux ECS.
 - If yes, go to [3](#).

NOTICE

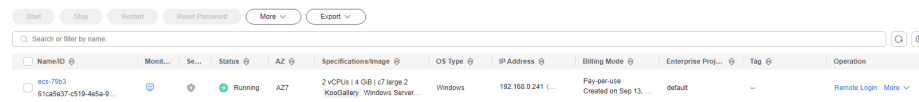
If the ECS image is CentOS, CentOS 7.4 64bit must be used.

- If no, purchase an ECS and select Linux (for example, CentOS 7.4 64bit) as its OS.

To download a MariaDB client to the ECS, bind an EIP to the ECS. The ECS must be in the same region, VPC, and security group as the RDS for MariaDB instance for mutual communications.

For details about how to purchase a Linux ECS, see [Purchasing an ECS in Elastic Cloud Server User Guide](#).

Figure 2-5 ECS

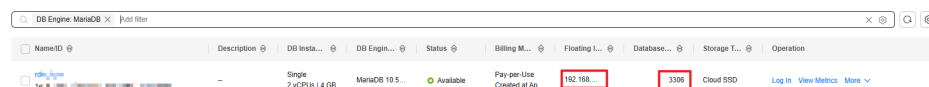


3. Check whether the ECS and RDS for MariaDB instance are in the same region and VPC.
 - ECS: Click the ECS name to go to the **Summary** page and find its VPC.
 - RDS for MariaDB: Click the instance name to go to the **Overview** page and find its VPC.
 - If they are not in the same region, buy another ECS. The ECS and DB instance in different regions cannot communicate with each other. To reduce network latency, deploy your DB instance in the region nearest to your workloads.
 - If they are in different VPCs, change the VPC of the ECS to that of the DB instance. For details, see [Changing a VPC](#).

Step 3: Test Connectivity and Install a MariaDB Client

1. Log in to the ECS. For details, see [Logging In to a Linux ECS Using VNC](#) in the *Elastic Cloud Server User Guide*.
2. On the **Instances** page of the RDS console, check the floating IP address and database port of the DB instance.

Figure 2-6 Connection information



3. On the ECS, check whether the floating IP address and database port obtained in 2 can be connected.

```
curl -kv Floating_IP_address.Port
```

Example:

```
curl -kv 192.168.230.249:3306
```

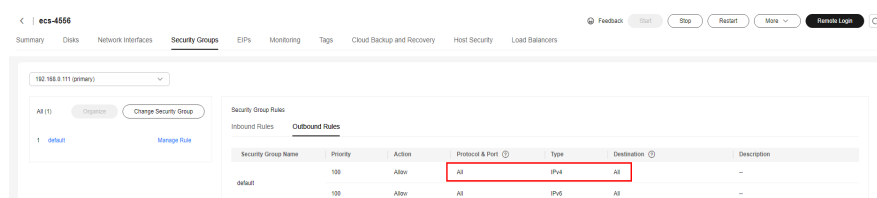
- If yes, network connectivity is normal.

Figure 2-7 Normal network connectivity

```
[root@ecs-baa1 ~]# curl -kv 192.168.230.249:3306
* About to connect() to 192.168.230.249 port 3306 (#0)
* Trying 192.168.230.249...
* Connected to 192.168.230.249 (192.168.230.249) port 3306 (#0)
> GET / HTTP/1.1
> User-Agent: curl/7.29.0
> Host: 192.168.230.249:3306
> Accept: */*
* Recv failure: Connection reset by peer
* Closing connection 0
curl: (56) Recv failure: Connection reset by peer
5.5.5-10.5.16-231200-MariaDB-logESM71/Ht'##-##1*7ct=p0-Jomysql_native_password!##08S01Got packets out of order[root@ecs-baa1 ~]#
```

- If no, check the security group rules.
 - Check the outbound rules of the ECS security group. By default, all outgoing network traffic is allowed.
- If not all outgoing traffic is allowed, add an outbound rule for the floating IP address and port of the DB instance.

Figure 2-8 ECS security group



- If in the security group of the DB instance, there is no inbound rule allowing the access from the private IP address and port of the ECS, add an inbound rule for the private IP address and port of the ECS. For details, see [Configuring a Security Group Rule](#).
4. Install the MariaDB client for Linux to the ECS. For details about the installation methods for other OSs, see the [official documentation](#).

yum install MariaDB-client

Figure 2-9 Installing a MariaDB client

```
Dependencies Resolved

=====
Package                Arch      Version      Repository    Size
=====
Installing:
mariadb-server          x86_64    1:5.5.68-1.el7    base         11 M
```

NOTE

A MariaDB client running a version later than that of the DB instance is recommended.

Step 4: Connect to the DB Instance Using a CLI (Non-SSL Connection)

1. Run the following command on the ECS to connect to the DB instance:
mysql -h <host> -P <port> -u <userName> -p

Example:

```
mysql -h 192.168.230.249 -P 3306 -u root -p
```


Table 2-1 Parameter description

Parameter	Example Value	Description
<host>	192.168.230.249	Floating IP address obtained in 2.
<port>	3306	Database port obtained in 2. The default value is 3306.
<userName>	root	Administrator account root .

2. Enter the password of the database account if the following information is displayed:

Enter password:

Figure 2-10 Connection succeeded

```
[root@ ~]# mysql -h 192.168.230.249 -P 3306 -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 34567
Server version: 10.5.16-MariaDB-log MariaDB Community Server - (GPL)

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]>
```

3. Create a database, for example, **mydb**.

create database mydb;

Figure 2-11 Creating a database

```
MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
+-----+
3 rows in set (0.00 sec)

MariaDB [(none)]> create database mydb;
Query OK, 1 row affected (0.01 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mydb |
| mysql |
| performance_schema |
+-----+
4 rows in set (0.00 sec)

MariaDB [(none)]>
```

4. Create a table, for example, **my_table**.
create table my_table(id int);

Figure 2-12 Creating a table

```
MariaDB [mydb]> show tables;
Empty set (0.00 sec)

MariaDB [mydb]> create table my_table(id int);
Query OK, 0 rows affected (0.01 sec)

MariaDB [mydb]> show tables;
+-----+
| Tables_in_mydb |
+-----+
| my_table        |
+-----+
1 row in set (0.00 sec)

MariaDB [mydb]>
```

3

Getting Started with RDS for MariaDB Common Practices

After purchasing and connecting to a DB instance, you can view common practices to better use RDS for MariaDB.

Table 3-1 Common practices

Practice		Description
Suggestions on using RDS for MariaDB	Instance Usage Suggestions	This practice provides suggestions on using RDS for MariaDB in terms of DB instances, database connection, reliability and availability, backup and restoration, SQL audit, routine O&M, and security.
	Database Usage Suggestions	This practice provides suggestions on database naming, database design, field design, index design, and SQL statement development.
Data backup	Configuring a Same-Region Backup Policy	This practice describes how RDS for MariaDB automatically creates backups for a DB instance during a backup window and saves the backups based on the configured retention period.
	Creating a Manual Backup	This practice describes how to create manual backups for a DB instance. These backups can be used to restore data for improved reliability.
Data restoration	Restoring a DB Instance from a Backup	This practice describes how to use an automated or manual backup to restore a DB instance to how it was when the backup was created. The restoration is at the instance level.

Practice		Description
	Restoring a DB Instance to a Point in Time	This practice describes how to use an automated backup to restore instance data to a specified point in time.