RDS for SQL Server

Getting Started

Issue 01

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Contents

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

This example illustrates how to purchase an RDS for SQL Server instance and how to connect to it using DAS.

- **Step 1: Create an RDS for SQL Server Instance**
- **Step 2: Connect to the RDS for SQL Server Instance**

Step 1: Create an RDS for SQL Server Instance

1. Go to the **Buy DB Instance** page.
2. Configure the instance information and click **Next**.

Figure 1-1 Setting the billing mode, DB engine, storage type, and instance type

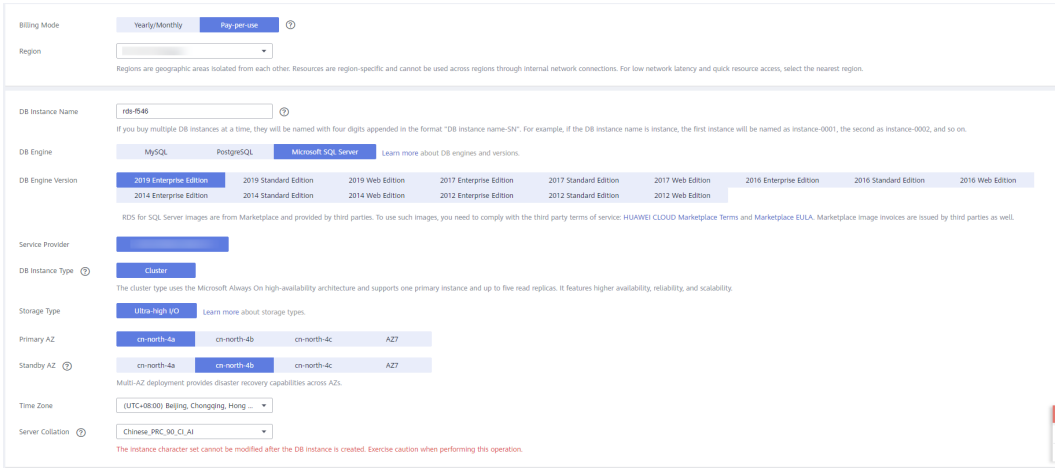


Figure 1-2 Selecting an instance class

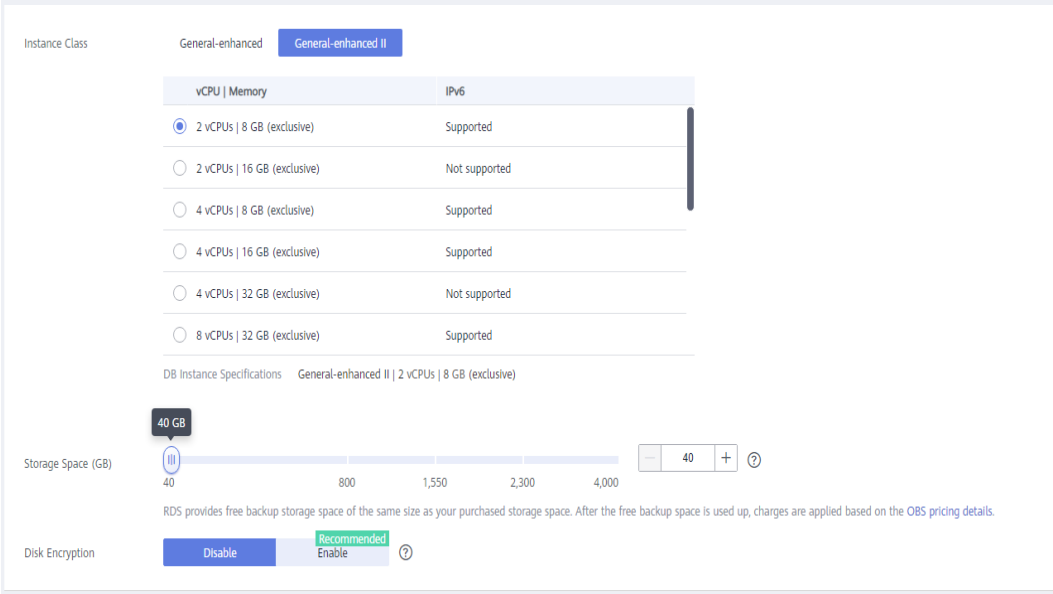


Figure 1-3 Configuring network details

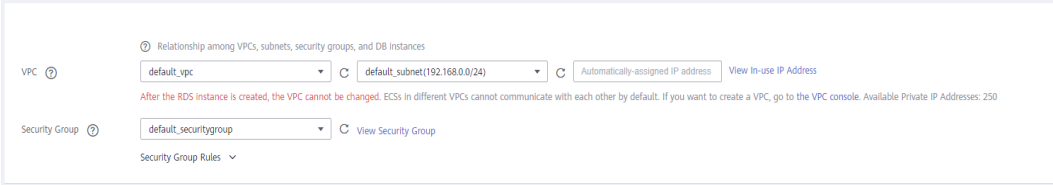
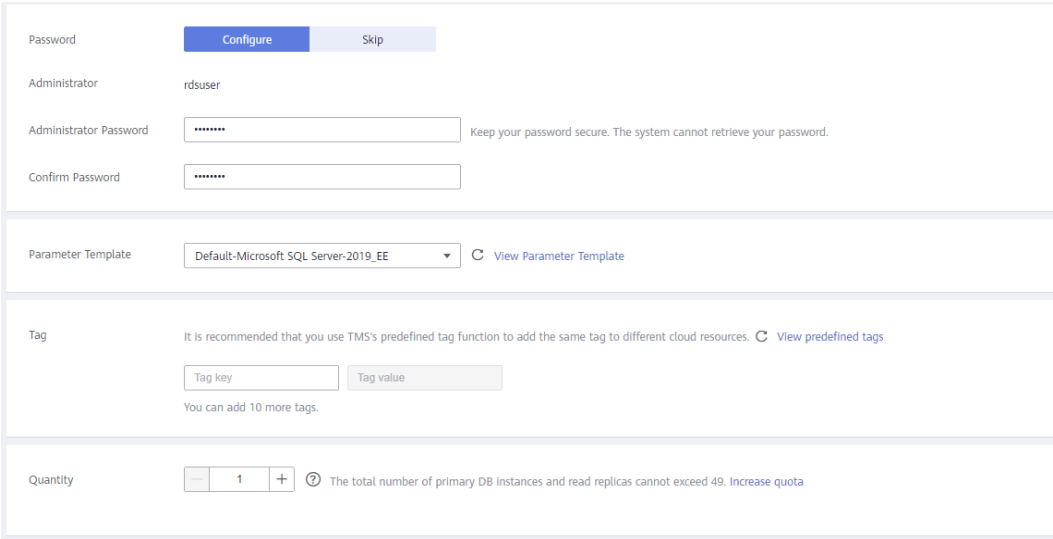
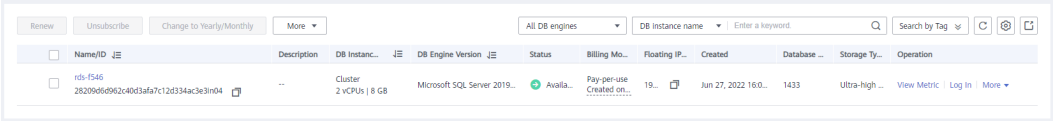


Figure 1-4 Setting a password



3. View the purchased RDS instance.

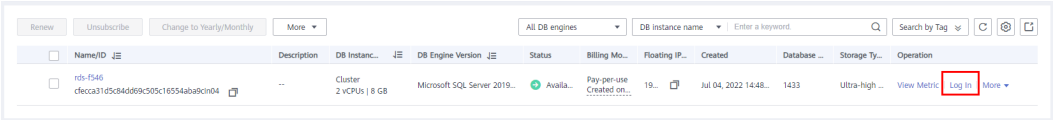
Figure 1-5 Instance successfully purchased



Step 2: Connect to the RDS for SQL Server Instance

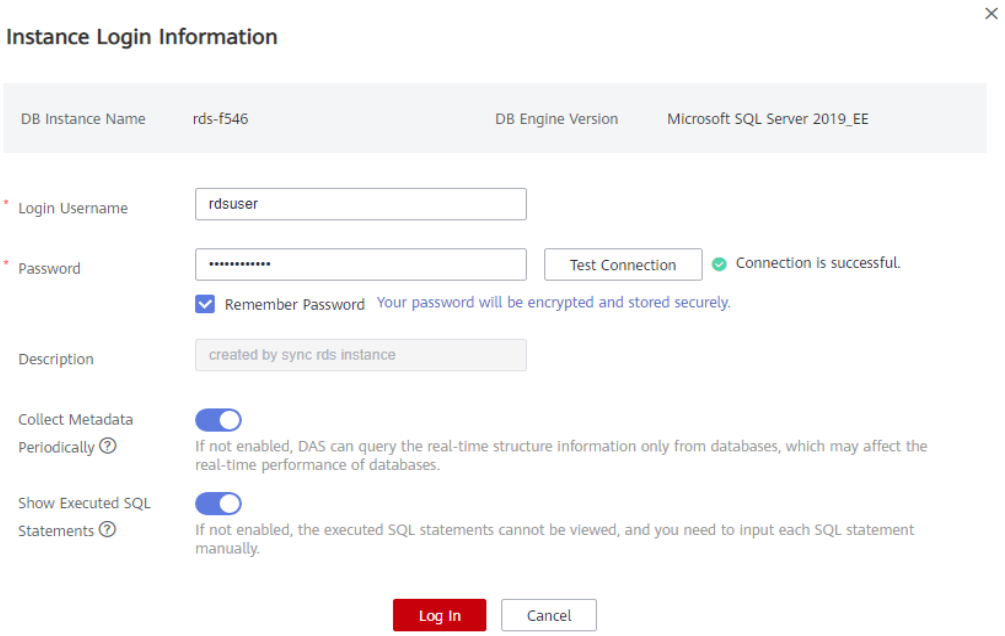
1. Click **Log In** in the **Operation** column.

   Figure 1-6 Instances



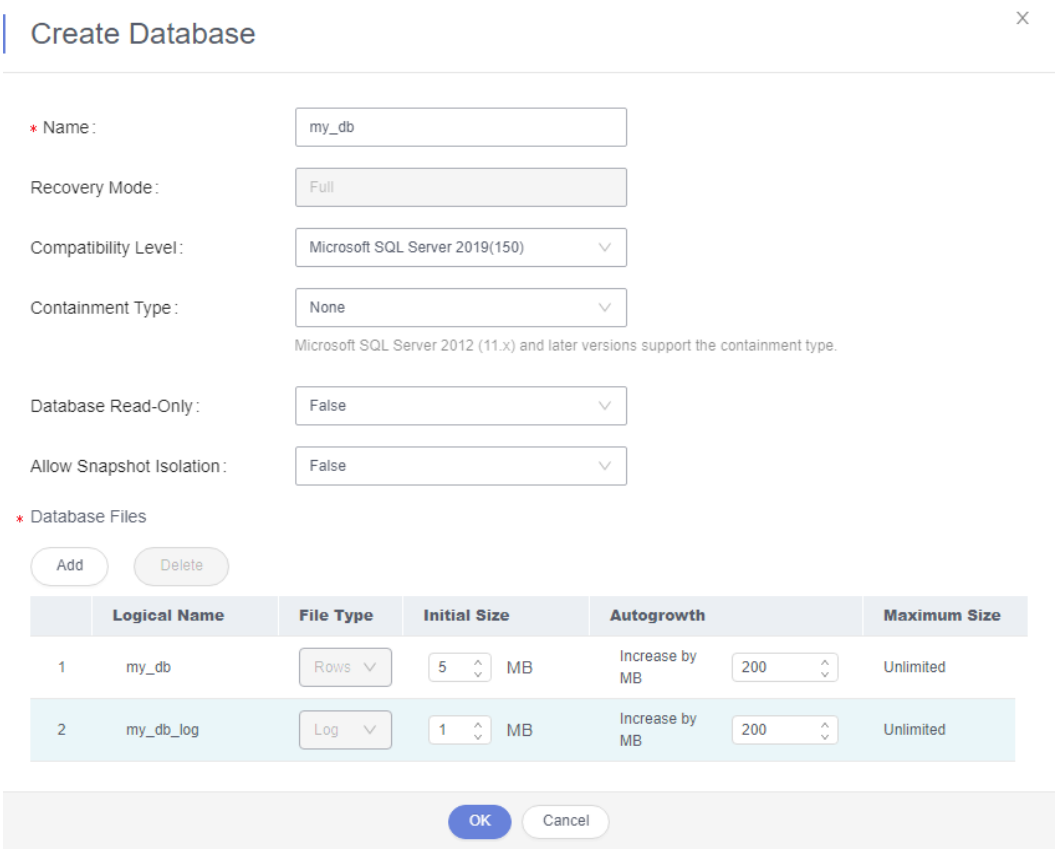
2. Enter the **rdsuser** password you set during instance creation and click **Log In**.

   Figure 1-7 Instance login



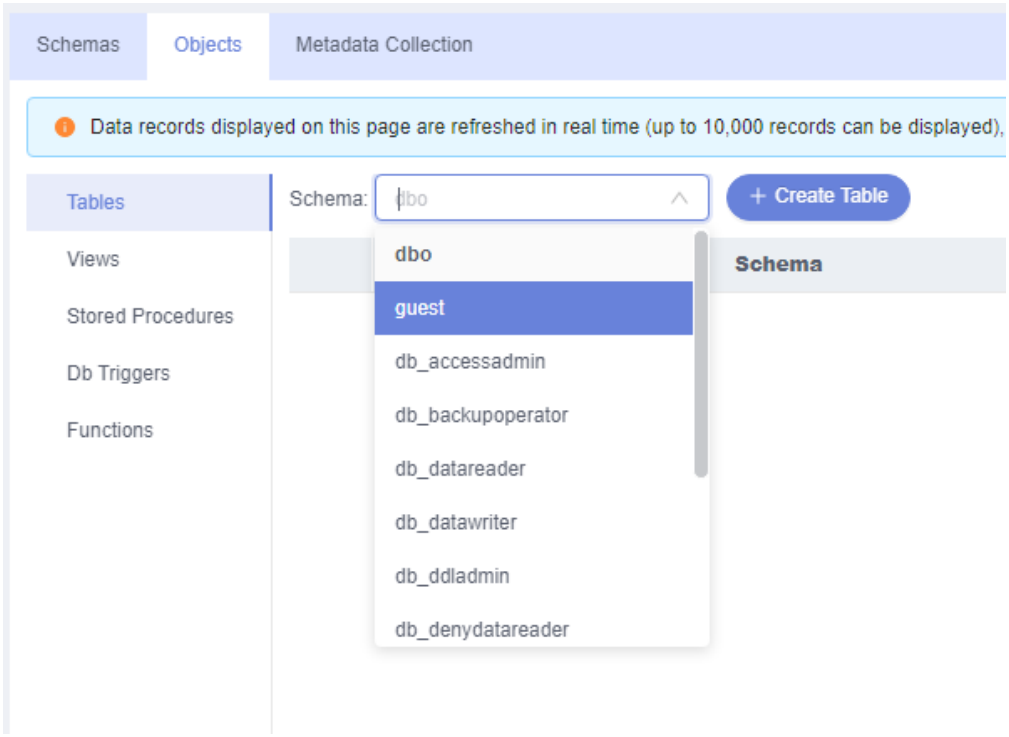
3. Create a database named **my_db**.

Figure 1-8 Creating a database



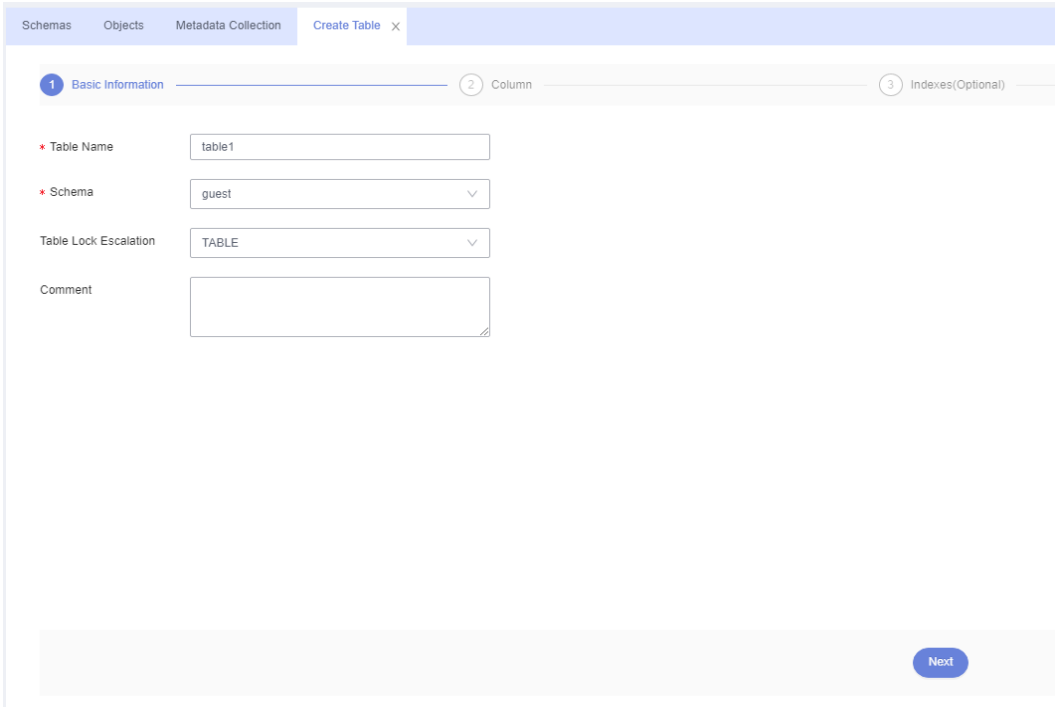
4. Click the database name and select a schema, for example, **guest**.

Figure 1-9 Switching to the database



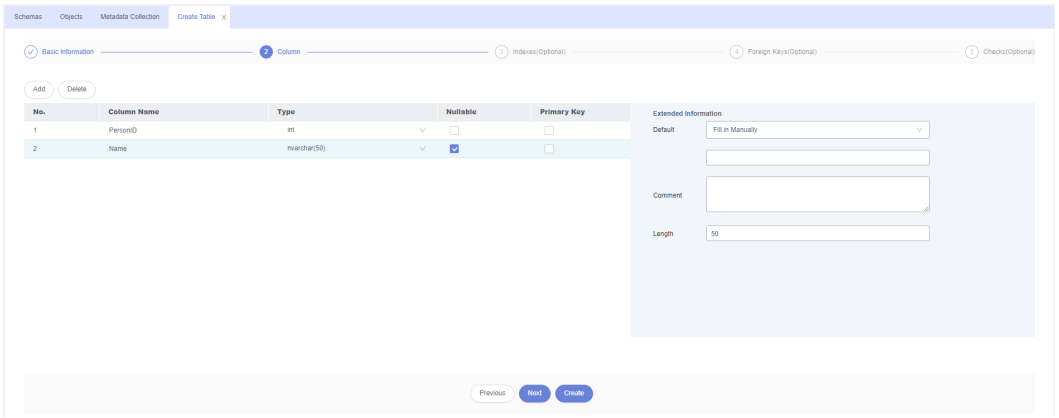
5. Create a table named **table1**.

Figure 1-10 Table information



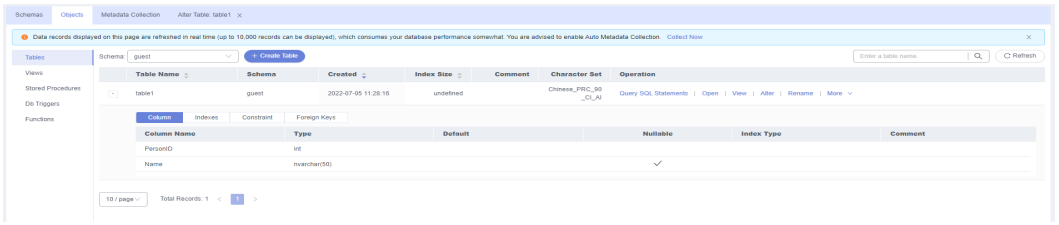
6. Define table fields, including **Column Name**, **Type**, **Nullable**, and **Primary Key**, and click **Create**.

Figure 1-11 Inserting data



Check the created table.

Figure 1-12 Table successfully created



2 Buying an RDS for SQL Server Instance and Connecting to It Using the SSMS Client

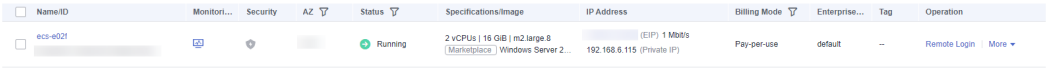
You can connect to your DB instance using a Windows ECS with SQL Server Management Studio (SSMS) installed over a private network.

This section describes how to connect to a DB instance with SSL disabled. To connect to a DB instance with SSL enabled, see **Connecting to an RDS for SQL Server Instance Through a Private Network**.

Step 1: Buy an ECS

1. **Log in to the management console** and check whether there is an ECS available.
   - If there is a Windows ECS, go to **3**.
   - If no Windows ECS is available, go to **2**.

   Figure 2-1 ECS

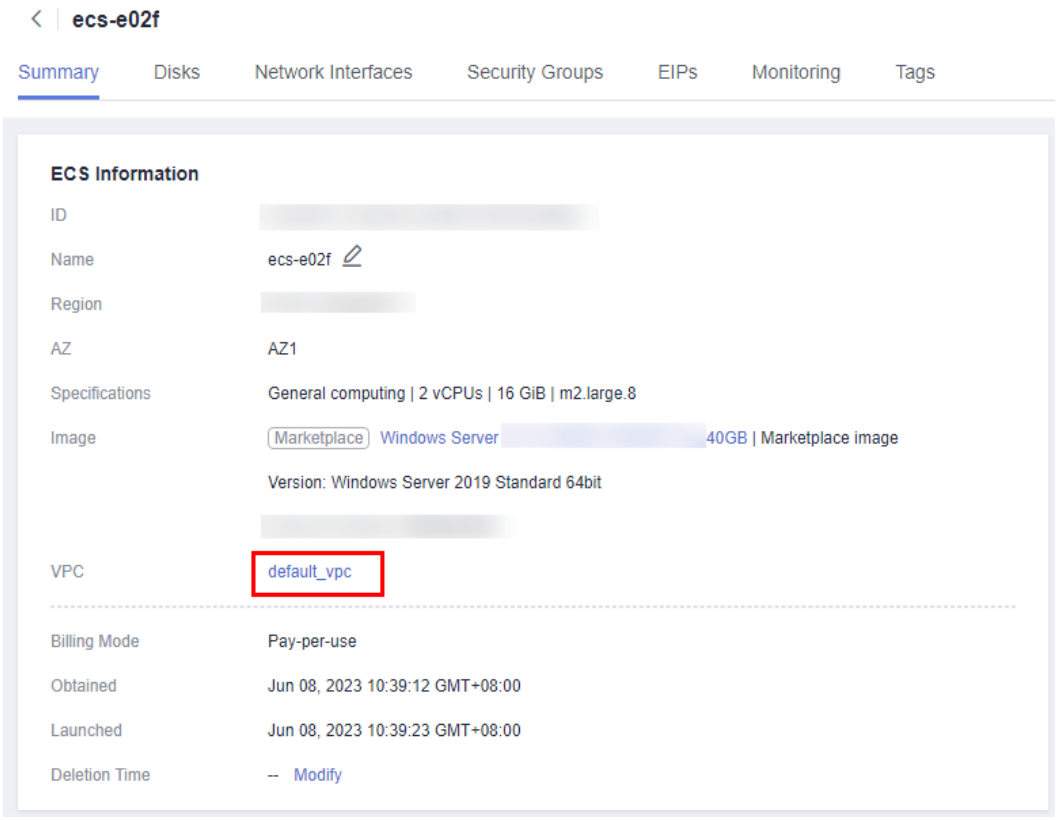
2. Buy an ECS and select Windows as its OS.

   To download SQL Server Management Studio 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 SQL Server DB instance for mutual communications.

   For details about how to purchase a Windows ECS, see **Purchasing a Custom ECS** in *Elastic Cloud Server User Guide*.

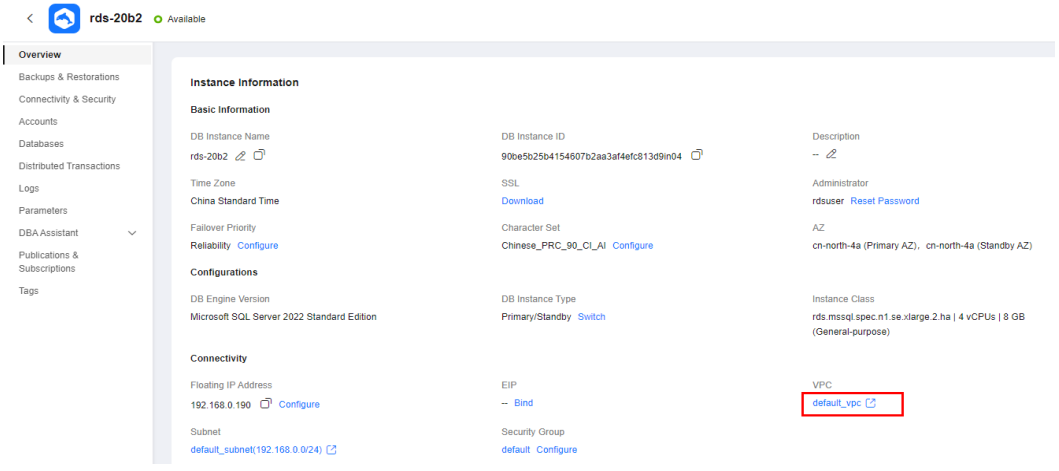
3. On the **ECS Information** page, view the region and VPC of the ECS.

Figure 2-2 ECS information



4. On the **Overview** page of the RDS for SQL Server instance, view the region and VPC of the DB instance.

Figure 2-3 Overview



5. Check whether the ECS and RDS for SQL Server instance are in the same region and VPC.
   - If yes, go to **Step 2: Test Connectivity and Install SQL Server Management Studio**.
   - If they are not in the same region, purchase another ECS or DB instance. The ECS and DB instance in different regions cannot communicate with

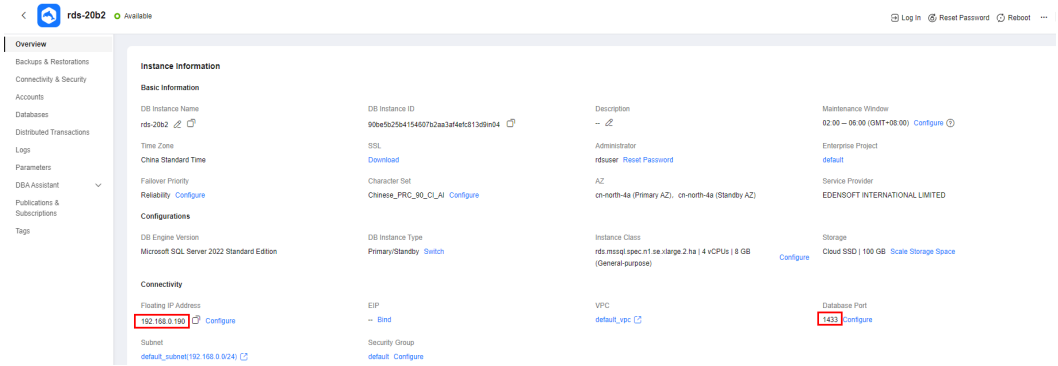
each other. To reduce network latency, deploy your DB instance in the region nearest to your workloads.

- If the ECS and DB instance are in different VPCs, change the VPC of the ECS to that of the DB instance. For details, see **Changing a VPC**.

Step 2: Test Connectivity and Install SQL Server Management Studio

1. Log in to the ECS. For details, see **Login Using VNC** in the *Elastic Cloud Server User Guide*.
2. On the **Instances** page of the RDS console, click the DB instance name to go to the **Overview** page.
3. Obtain the floating IP address and database port of the DB instance.

   Figure 2-4 Connection information

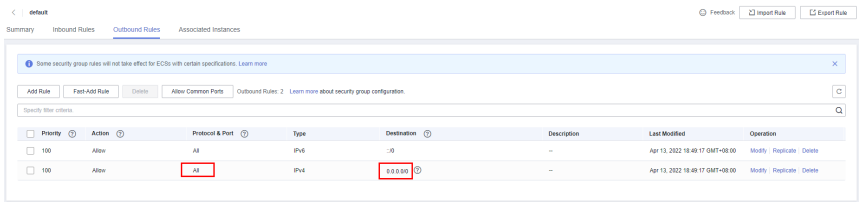
4. Open the cmd window on the ECS and check whether the floating IP address and database port of the DB instance can be connected.

   telnet *192.168.2.182 1433*

   - If yes, network connectivity is normal.
   - If no, check the security group rules.

     - If in the security group of the ECS, there is no outbound rule with **Destination** set to **0.0.0.0/0** and **Protocol & Port** set to **All**, add an outbound rule for the floating IP address and port of the DB instance.

       Figure 2-5 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.

5. Open a browser on the ECS, visit the **Microsoft website**, and download the installation package, for example, SQL Server Management Studio 18.0.

6. Double-click the installation package and complete the installation as instructed.

Step 3: Connect to the DB Instance Using SQL Server Management Studio

1. Start SQL Server Management Studio.
2. Choose **Connect** > **Database Engine**. In the displayed dialog box, enter login information.

Figure 2-6 Connecting to the server

Table 2-1 Parameter description

Parameter	Description
Server name	Floating IP address and database port obtained in **3**.
Authentication	Authentication mode. Select **SQL Server Authentication**.
Login	Name of the account used to access the DB instance. The default value is **rdsuser**.
Password	Password of the account.

3. Click **Connect** to connect to the DB instance.

Follow-up Operations

After logging in to the DB instance, you can create or migrate databases.

- **Managing RDS for SQL Server Databases Using DAS**
- **Migration Solution Overview**

3 Getting Started with RDS for SQL Server Common Practices

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

Table 3-1 Common practices

Practice		Description
Suggestions on using RDS for SQL Server	**Instance Usage Suggestions**	This practice provides suggestions on DB instance class, database connection, database migration, and instance usage.
SSRS deployment	**Deploying SQL Server Reporting Services (SSRS) on RDS for SQL Server**	This practice describes how to deploy SSRS on RDS for SQL Server.
Data migration	**Migrating Data to RDS for SQL Server Using the Export and Import Functions of DAS**	This practice describes how to use Data Admin Service (DAS) to export data from the source and then import the data to an RDS for SQL Server DB instance.
	Migrating Data from an ECS-Hosted SQL Server Database to RDS for SQL Server Using the Export and Import Functions of SSMS	This practice describes how to use SQL Server Management Studio (SSMS) to migrate data from an ECS-hosted SQL Server database to an RDS for SQL Server DB instance.
	Migrating Data from an On-Premises SQL Server Database to RDS for SQL Server Using the Export and Import Functions of SSMS	This practice describes how to use SSMS to migrate data from an on-premises SQL Server database to an RDS for SQL Server DB instance.

Practice		Description
	Deploying SQL Server Reporting Services (SSRS) on RDS for SQL Server	This practice describes how to deploy SSRS on RDS for SQL Server.
	Migrating Backup Data of an RDS for SQL Server DB Instance to Another RDS for SQL Server DB Instance	This practice describes how to use DRS to migrate backup data from the source to an RDS for SQL Server DB instance.
	From RDS for SQL Server to RDS for SQL Server	This practice describes how to use DRS to synchronize data from an RDS for SQL Server DB instance to another RDS for SQL Server DB instance.
	Migrating Backup Data of an On-Premises SQL Server Database to an RDS for SQL Server DB Instance	This practice describes how to use DRS to migrate backup data of an on-premises SQL Server database to an RDS for SQL Server DB instance.
	From On-Premises SQL Server to RDS for SQL Server	This practice describes how to use DRS to synchronize data from an on-premises SQL Server database to an RDS for SQL Server DB instance.
	Migrating Backup Data of SQL Server Databases on Other Clouds to RDS for SQL Server	This practice describes how to use DRS to migrate backup data of SQL Server databases on other clouds to RDS for SQL Server.
	From SQL Server on Other Clouds to RDS for SQL Server	This practice describes how to use DRS to synchronize data from SQL Server databases on other clouds to RDS for SQL Server.
Data backup	Same-Region Automated Backup	This practice describes how RDS for SQL Server automatically creates backups for a DB instance during a backup window and saves the backups based on the configured retention period.
	Same-Region 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.

Practice		Description
Data restoration	**Restoring from Full Backups to RDS for SQL Server Instances**	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.
	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.

