RDS for PostgreSQL

Getting Started

Issue 01

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Buying an RDS for PostgreSQL Instance and Connecting to It Through DAS

This section describes how to purchase an RDS for PostgreSQL instance and how to connect to it using DAS.

- Step 1: Buy an RDS for PostgreSQL DB Instance
- Step 2: Connect to the RDS for PostgreSQL Instance

Step 1: Buy an RDS for PostgreSQL DB Instance

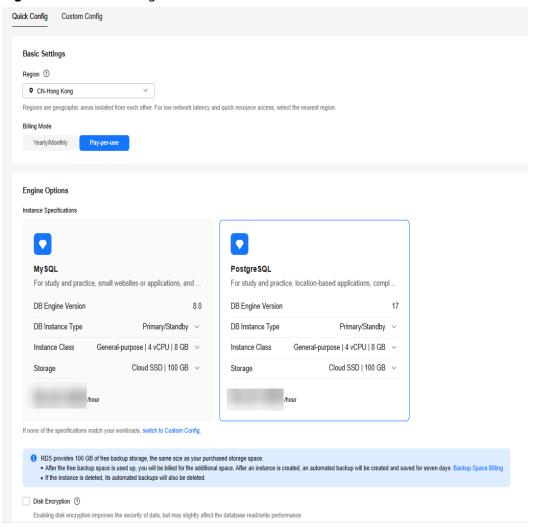
- 1. Go to the **Buy DB Instance** page.
- 2. On the **Quick Config** page, set basic parameters.

Ⅲ NOTE

Only mandatory parameters are provided on the **Quick Config** page. If the available parameters do not match your workloads, try **Custom Config**.

The following parameter settings are only for reference.

Figure 1-1 Basic Settings

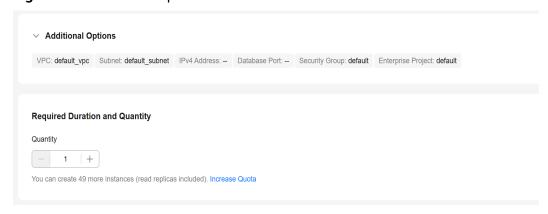


Parameter	Example Value	Description
Billing Mode	Pay-per-use	The billing mode of an instance.
		Yearly/Monthly: A prepaid billing mode in which you pay for resources before using it. Bills are settled based on the subscription period. The longer the subscription, the bigger the discount. This mode is 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.
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.
DB Engine Version	16	The database version.
DB Instance	Primary/	The architecture type of an instance.
Туре	Standby	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.
Instance Class	General- purpose 4 vCPU 8 GB	The vCPU and memory of an instance.
Storage	Cloud SSD 100 GB	The storage space of an instance. It contains the system overhead required for inodes, reserved blocks, and database operation.

Parameter	Example Value	Description
Disk Encryption	Disable	Enabling disk encryption improves data security, but slightly affects the read and write performance of the database.
		If a shared KMS key is used, the corresponding CTS events are createdatakey and decrydatakey. Only the key owner can receive the events.

3. Complete advanced configurations.

Figure 1-2 Additional Options

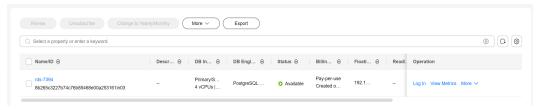


Parameter	Example Value	Description
VPC	default_vpc	The virtual network in which your instance is located. A VPC can isolate networks for different workloads.
		If no VPC is available, click Create VPC.
		After a VPC is created, click . For details, see Creating a VPC and Subnet.
Subnet	default_subn et	A subnet provides dedicated network resources that are logically isolated from other networks for network security.
Security Group	default	It can enhance security by controlling access to RDS for PostgreSQL from other services.
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 <i>Enterprise Management User Guide</i> .

Parameter	Example Value	Description
Quantity	1	The number of instances to be created in a batch.

- 4. Click Buy.
- 5. Check the purchased DB instance.

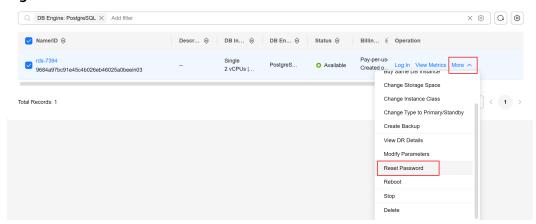
Figure 1-3 Instance successfully purchased



Step 2: Connect to the RDS for PostgreSQL Instance

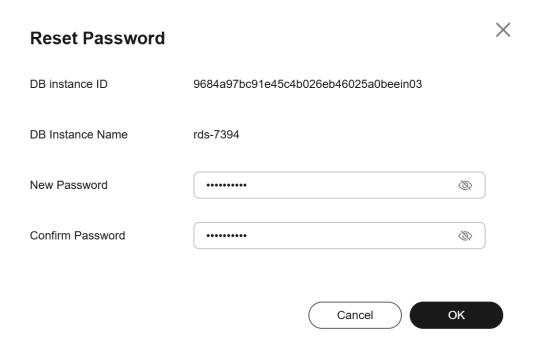
 Since no password is configured in Step 1: Buy an RDS for PostgreSQL DB Instance, you need to reset the password before connecting to the instance. In the instance list, choose More > Reset Password.

Figure 1-4 Instance list



2. Enter a new password, confirm the password, and click **OK**.

Figure 1-5 Resetting a password



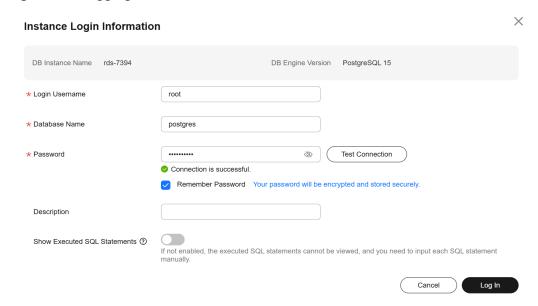
3. Click **Log In** in the **Operation** column.

Figure 1-6 Instance list



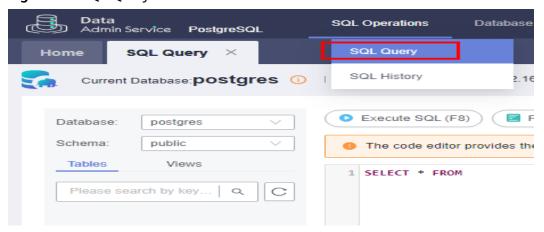
- 4. Enter the required information and click **Log In**.
 - Login Username: Enter root.
 - Database Name: Enter postgres.
 - Password: Enter the password you specified in 2.

Figure 1-7 Logging in to an instance



5. Choose **SQL Operations** > **SQL Query**.

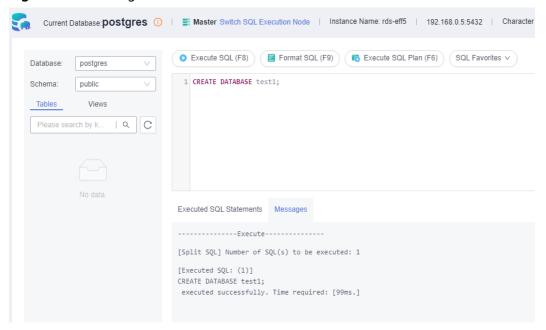
Figure 1-8 SQL Query



6. Create a database, for example, test1.

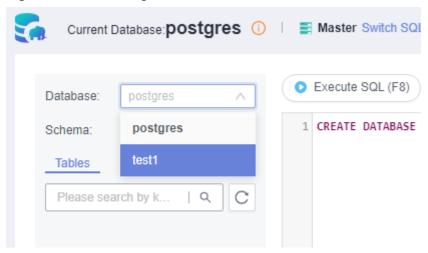
CREATE DATABASE test1;

Figure 1-9 Creating a database



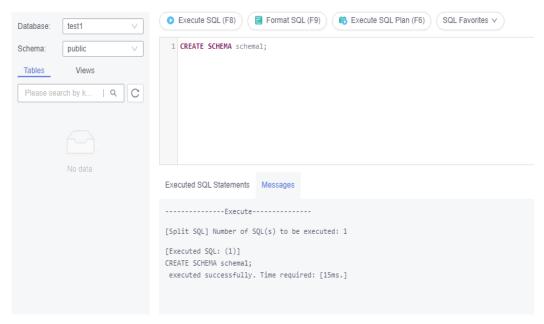
7. Switch to **test1** and create a schema (for example, **schema1**) in the database.

Figure 1-10 Switching to the database



CREATE SCHEMA schema1;

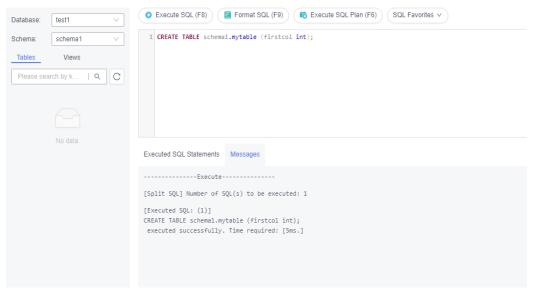
Figure 1-11 Creating a schema



8. Switch to **schema1** and create a table named **mytable** with only one column. Specify the column name as **firstcol** and the column type as **integer**.

CREATE TABLE schema1.mytable (firstcol int);

Figure 1-12 Creating a table



9. Insert data to the table.

INSERT INTO schema1.mytable values (100);

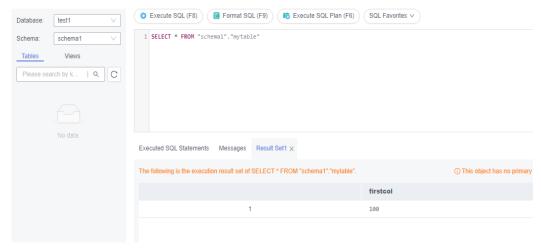
Figure 1-13 Inserting data



Query data in the table.

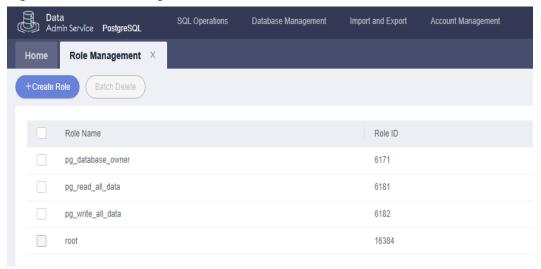
SELECT * FROM "schema1"."mytable"

Figure 1-14 Querying data



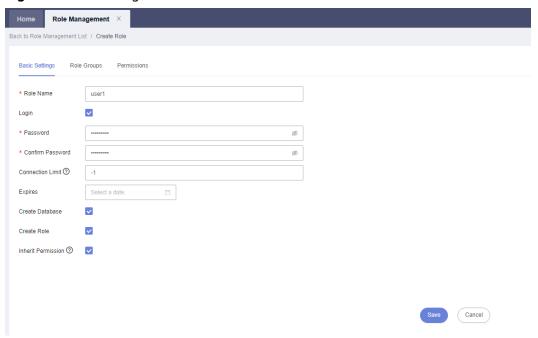
10. In the upper part of the page, choose **Account Management** > **Role Management**.

Figure 1-15 Role management



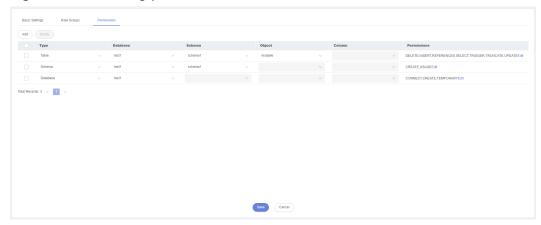
11. Click **Create Role** and complete basic settings. **user1** is used as an example.

Figure 1-16 Creating a role



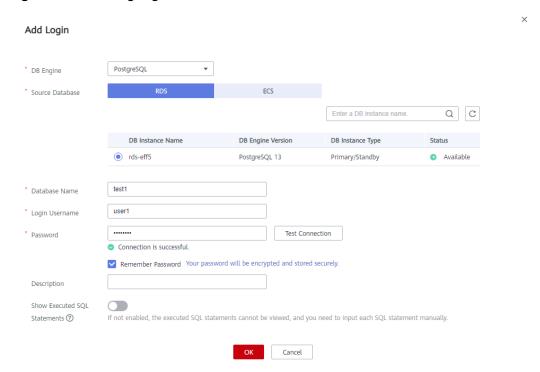
12. Click the **Permissions** tab and grant **user1** the permissions to perform operations on databases, schemas, and tables.

Figure 1-17 Granting permissions



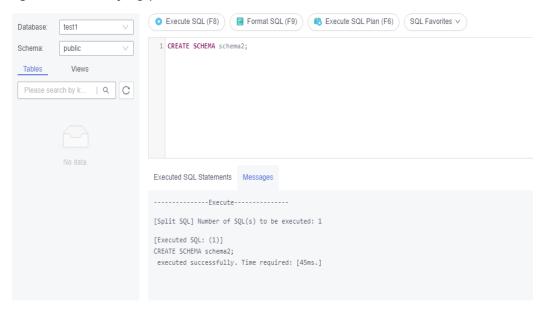
13. On the **Development Tool** page, click **Add Login** and log in to the database as **user1**.

Figure 1-18 Adding login



14. Create **schema2** in **test1** to verify that **user1** has the **CREATE** permission. **CREATE SCHEMA schema2**;

Figure 1-19 Verifying permissions



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

You can connect to your DB instance using a Linux ECS with a PostgreSQL client installed over a private network.

You can use the PostgreSQL client to connect to your DB instance over a Secure Sockets Layer (SSL) connection. SSL encrypts connections to your DB instance, making in-transit data more secure.

SSL is enabled by default when you create an RDS for PostgreSQL DB instance and cannot be disabled after the instance is created.

Enabling SSL reduces the read-only and read/write performance of your instance by about 20%.

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 PostgreSQL DB Instance	Select required basic settings and additional options and buy an RDS for PostgreSQL DB instance.	
Step 2: Buy an ECS	If you want to use a PostgreSQL client to connect to a DB instance, you need to prepare a server, install the PostgreSQL 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.	

Process	Description
Step 3: Test Connectivity and Install a PostgreSQL Client	Test the network connectivity between the ECS and the floating IP address and port of the DB instance, and install a PostgreSQL client on the ECS.
Step 4: Connect to the DB Instance Using a CLI (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.
- For fine-grained permissions management on Huawei Cloud resources, use Identity and Access Management (IAM) to create a user and user group and grant the user specific operation permissions. For details, see Creating a User and Granting Permissions.

Step 1: Buy an RDS for PostgreSQL DB Instance

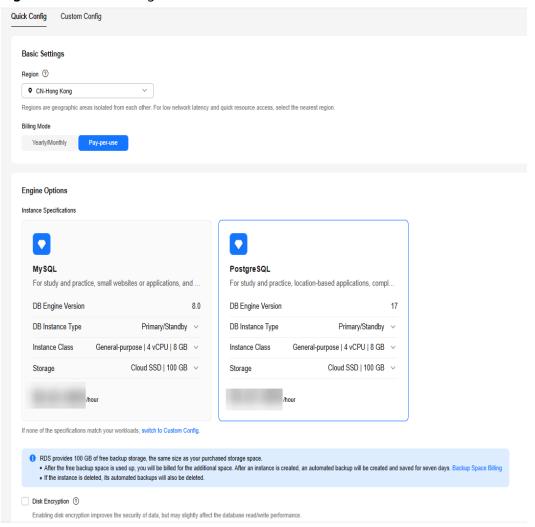
- 1. Go to the **Buy DB Instance** page.
- 2. On the **Quick Config** page, set basic parameters.

□ NOTE

Only mandatory parameters are provided on the **Quick Config** page. If the available parameters do not match your workloads, try **Custom Config**.

The following parameter settings are only for reference.

Figure 2-1 Basic Settings

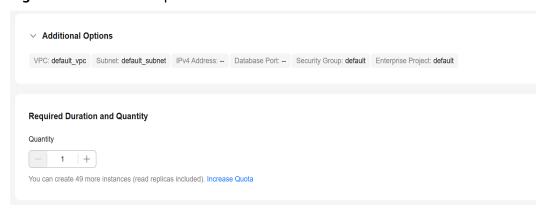


Parameter	Example Value	Description
Billing Mode	Pay-per-use	The billing mode of an instance.
		Yearly/Monthly: A prepaid billing mode in which you pay for resources before using it. Bills are settled based on the subscription period. The longer the subscription, the bigger the discount. This mode is 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.
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.
DB Engine Version	16	The database version.
DB Instance	Primary/	The architecture type of an instance.
Туре	Standby	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.
Instance Class	General- purpose 4 vCPU 8 GB	The vCPUs and memory of an instance.
Storage	Cloud SSD	The storage space of an instance.
	100 GB	It contains the system overhead required for inodes, reserved blocks, and database operation.

Parameter	Example Value	Description
Disk Encryption	Disable	Enabling disk encryption improves data security, but slightly affects the read and write performance of the database.
		If a shared KMS key is used, the corresponding CTS events are createdatakey and decrydatakey. Only the key owner can receive the events.

3. Complete advanced configurations.

Figure 2-2 Additional Options



Parameter	Example Value	Description
VPC	default_vpc	The virtual network in which your instance is located. A VPC can isolate networks for different workloads.
		If no VPC is available, click Create VPC.
		After a VPC is created, click . For details, see Creating a VPC and Subnet.
Subnet	default_subn et	A subnet provides dedicated network resources that are logically isolated from other networks for network security.
Security Group	default	It can enhance security by controlling access to RDS for PostgreSQL from other services.
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 <i>Enterprise Management User Guide</i> .

Parameter	Example Value	Description
Quantity	1	The number of instances to be created in a batch.

- 4. Click Buy.
- 5. Check the purchased DB instance.

Figure 2-3 Instance successfully purchased



Step 2: Buy an ECS

- 1. Go to the **Elastic Cloud Server console**.
- 2. Check whether there is a Linux ECS that meets the requirements.

NOTICE

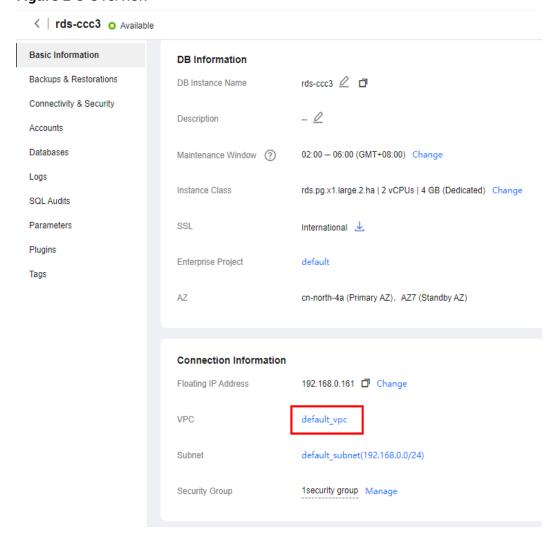
RDS for PostgreSQL supports the following client installation methods:

- Download the PostgreSQL client installation package. This method is recommended for PostgreSQL 15 and earlier versions. It has requirements on ECS images. For details, see the official PostgreSQL documentation.
- Download the source code. This method has no requirements on PostgreSQL versions or ECS images.
- If yes, go to 3.
- If no, purchase an ECS and select Linux (for example, CentOS 7) as its OS.
 To download the PostgreSQL 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 PostgreSQL DB instance for mutual communications.
 - For details about how to purchase a Linux ECS, see **Purchasing a Custom ECS** in *Elastic Cloud Server User Guide*.
- 3. Check whether the ECS and RDS for PostgreSQL instance are in the same region and VPC.

Figure 2-4 ECS information



Figure 2-5 Overview



- If they are not in the same region, purchase 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 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 3: Test Connectivity and Install a PostgreSQL Client

Installing a PostgreSQL Client (PostgreSQL 15 and Earlier)

- 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.
- Choose Connectivity & Security from the navigation pane. In the Connection Information area, obtain the floating IP address and database port of the DB instance.

Figure 2-6 Connection information



4. On the ECS, check whether the floating IP address and database port of the DB instance can be connected.

curl -kv 192.168.0.7:5432

- 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 2-7 ECS security group



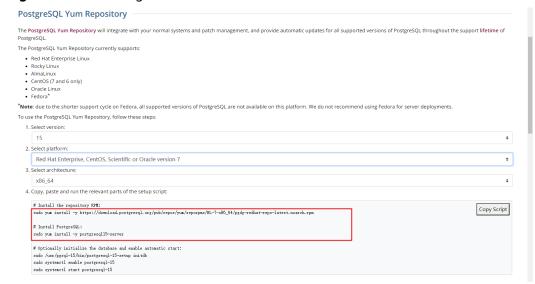
- If in the security group of the DB instance, there is no inbound rule allowing the access from the private IP address and port of the ECS, add an inbound rule for the private IP address and port of the ECS.
- 5. Install a PostgreSQL client.

The PostgreSQL community provides client installation methods for different OSs. You can download and install a client using the installation tool

of the OS. This installation method is simple but can be used only for the OSs supported by the PostgreSQL community.

In this example, CentOS 7 is used. Use the default installation tool of the OS to install a client (PostgreSQL 15 or earlier).

Figure 2-8 Obtaining the installation tool



Run the installation commands:

sudo yum install -y https://download.postgresql.org/pub/repos/yum/reporpms/EL-7-x86_64/pgdg-redhat-repo-latest.noarch.rpm sudo yum install -y postgresql15-server

Check whether the installation is successful.

psql -V

Figure 2-9 Successful installation

```
Running transaction

Installing: postgresql15-libs-15.8-1PGDG.rhel7.x86_64

Installing: postgresql15-libs-15.8-1PGDG.rhel7.x86_64

Installing: postgresql5-15.8-1PGGG.rhel7.x86_64

Installing: postgresql5-15.8-1PGGG.rhel7.x86_64

Installing: postgresql5-15.8-1PGGG.rhel7.x86_64

Verifying: postgresql5-server-15.8-1PGG.rhel7.x86_64

Verifying: postgresql5-server-15.8-1PGGG.rhel7.x86_64

Verifying: postgresql5-server-15.8-1PGGG.rhel7.x86_64

Verifying: postgresql5-server-15.8-1PGGG.rhel7.x86_64

Verifying: postgresql5-server-15.8-1PGGG.rhel7.x86_64

Verifying: postgresql5-server.x86_64

Installed:
postgresql15-server.x86_64 8:15.8-1PGGG.rhel7

Dependency: Installed:
postgresql15-server.x86_64 8:15.8-1PGGG.rhel7

Complete!
[root@cs-46c2-]# psql -V
psql (PostgresQl): 15.8
[root@cs-46c2-]# psql -V
psql (PostgresQl): 15.8
[root@cs-46c2-]# psql -V
psql (PostgresQl): 15.8
```

Installing a PostgreSQL Client (No Restrictions on PostgreSQL Versions)

- 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. Choose **Connectivity & Security** from the navigation pane. In the **Connection Information** area, obtain the floating IP address and database port of the DB instance.

Figure 2-10 Connection information

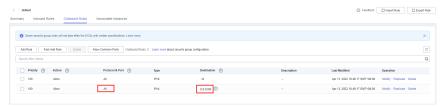


4. On the ECS, check whether the floating IP address and database port of the DB instance can be connected.

curl -kv 192.168.0.7:5432

- 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 2-11 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. Install a PostgreSQL client.

Installation from source code: This installation method has no restrictions on RDS PostgreSQL instance versions and ECS OS types.

The following uses an ECS using the Huawei Cloud EulerOS 2.0 image as an example to describe how to install a PostgreSQL 16.4 client.

Figure 2-12 Checking the ECS image



a. To use SSL, download OpenSSL to the ECS in advance. sudo yum install -y openssl-devel

b. Obtain the code download link, run wget to download the installation package to the ECS, or download the installation package to the local PC and then upload it to the ECS.

wget https://ftp.postgresql.org/pub/source/v16.4/postgresql-16.4.tar.gz

- c. Decompress the installation package. tar xf postgresql-16.4.tar.gz
- d. Compile the source code and then install the client. cd postgresql-16.4 ./configure --without-icu --without-readline --without-zlib --with-openssl make -j 8 && make install

If --prefix is not specified, the default path is /usr/local/pgsql. The client can be installed in the simplest way.

Figure 2-13 Compilation and installation

```
make -C ../../src/common all
make[4]: Entering directory '/root/postgresql-16.4/src/common'
make[4]: Nothing to be done for 'all'.
make[4]: Leaving directory '/root/postgresql-16.4/src/common'
make[3]: Leaving directory '/root/postgresql-16.4/src/interfaces/libpq'
make[3]: Entering directory '/root/postgresql-16.4/src/port
make[3]: Nothing to be done for 'all'
make[3]: Leaving directory '/root/postgresql-16.4/src/port'
make[3]: Entering directory '/root/postgresql-16.4/src/common'
make[3]: Leaving directory '/root/postgresql-16.4/src/common'
/usr/bin/mkdir -p '/usr/local/pgsql/lib/pgxs/src/test/isolation'
/usr/bin/install -c isolationtester '/usr/local/pgsql/lib/pgxs/src/test/isolation/isolationtester
make[2]: Leaving directory '/root/postgresql-16.4/src/test/isolation'
make -C test/perl install
make[2]: Entering directory '/root/postgresql-16.4/src/test/perl'
make[2]: Nothing to be done for 'install'
make[2]: Leaving directory '/root/postgresql-16.4/src/test/perl'
/usr/bin/mkdir -p '/usr/local/pgsql/lib/pgxs/src'
/usr/bin/install -c -m 644 Makefile.global '/usr/local/pgsql/lib/pgxs/src/Makefile.global'
/usr/bin/install -c -m 644 Makefile.port '/usr/local/pgsql/lib/pgxs/src/Makefile.port
/usr/bin/install -c -m 644 ./Makefile.shlib '/usr/local/pgsql/lib/pgxs/src/Makefile.shlib'
/usr/bin/install -c -m 644 ./nls-global.mk '/usr/local/pgsql/lib/pgxs/src/nls-global.mk' make[1]: Leaving directory '/root/postgresql-16.4/src'
make -C config install
make[1]: Entering directory '/root/postgresql-16.4/config'
/usr/bin/mkdir -p '/usr/local/pgsql/lib/pgxs/config'
/usr/bin/install -c -m 755 ./install-sh '/usr/local/pgsql/lib/pgxs/config/install-sh'
/usr/bin/install -c -m 755 ./missing '/usr/local/pgsql/lib/pgxs/config/missing'
 ake[1]: Leaving directory '/root/postgresql-16.4/config
```

e. Add the following code to the **/etc/profile** file to configure environment variables:

```
export PATH=/usr/local/pgsql/bin:$PATH
export LD_LIBRARY_PATH=/usr/local/pgsql/lib:$LD_LIBRARY_PATH
source /etc/profile
```

f. Test whether the psql is available.

Figure 2-14 Testing psql

```
. /etc/bashrc

fi

fi

export PATH=/usr/local/pgsql/bin:$PATH

export LD_LIBRARY_PATH=/usr/local/pgsql/lib:$LD_LIBRARY_PATH

[root@ecs-88a7 pgsql]# source /etc/profile

[root@ecs-88a7 pgsql]# psql -V

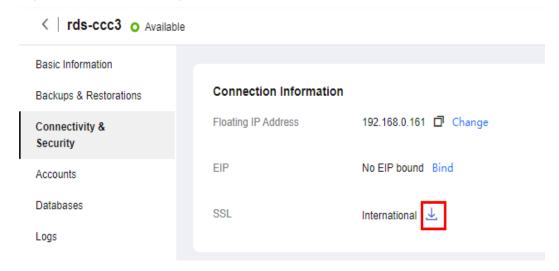
psql (PostgreSQL) 16.4

[root@ecs-88a7 pgsql]# []
```

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

- 1. On the **Instances** page of the RDS console, click the DB instance name to go to the **Overview** page.
- 2. In the navigation pane, choose **Connectivity & Security**.
- 3. In the **Connection Information** area, click

Figure 2-15 Downloading a certificate



4. Upload ca.pem to the ECS.

∩ NOTE

- TLS v1.2 or later is recommended. Versions earlier than TLS v1.2 have security risks.
- The recommended protocol algorithm is EECDH+ECDSA+AESGCM:EECDH+aRSA +AESGCM:EDH+aRSA+AESGCM:EDH+aDSS+AESGCM:!aNULL:!eNULL:!LOW:!3DES:! MD5:!EXP:!SRP:!RC4. Using other options have security risks.
- **ca-bundle.pem** contains both the new certificate provided as of April 2017 and the old certificate.
- Both ca.pem and ca-bundle.pem can be used for SSL connections because ca-bundle.pem contains ca.pem.
- 5. Run the following command on the ECS to connect to the DB instance: psql --no-readline -h <host> -p <port> "dbname= <database> user= <user> sslmode=verify-ca sslrootcert= <ca-file-directory>"

Example:

psql --no-readline -h 192.168.0.7 -p 5432 "dbname=postgres user=root sslmode=verify-ca sslrootcert=/root/ca.pem"

Table 2-1 Parameter description

Parameter	Example Value	Description
<host></host>	192.168.0.7	Floating IP address obtained in 3.
<port></port>	5432	Database port obtained in 3. The default value is 5432 .
<database></database>	postgres	Name of the database to be connected. The default database name is postgres .
<user></user>	root	Administrator account root .
<ca-file- directory></ca-file- 	/root/ca.pem	Directory of the CA certificate used for the SSL connection. This certificate should be stored in the directory where the command is executed.
sslmode	verify-ca	SSL connection mode. Set it to verify- ca to use a CA to check whether the service is trusted.

6. Enter the password of the database account as prompted.

If the following information is displayed, the connection is successful. SSL connection (protocol: TLSv1.2, cipher: ECDHE-RSA-AES256-GCM-SHA384, bits: 256, compression: off)

Follow-up Operations

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

- Creating a PostgreSQL Database Using an API
- Managing PostgreSQL Databases Using DAS
- Migration Solution Overview

3 Getting Started with RDS for PostgreSQL Common Practices

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

Table 3-1 Common practices

Practice		Description
Suggestions on using RDS for PostgreSQL	Instance Usage Suggestions	This practice provides suggestions on using RDS for PostgreSQL in terms of database connection, read replicas, reliability and availability, logical replication, database age, stability, routine O&M, and security.
	Database Usage Suggestions	This practice provides suggestions on database naming, table design, index design, SQL design, and security.
Data migration	Migrating Data to RDS for PostgreSQL Using psql	This practice describes how to use pg_dump to copy data from the source to an RDS for PostgreSQL DB instance.
	Migrating Data to RDS for PostgreSQL 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 PostgreSQL DB instance.
	From RDS for PostgreSQL to RDS for PostgreSQL	This practice describes how to use DRS to synchronize data from the source to an RDS for PostgreSQL DB instance.

Practice		Description
	From Self-Managed PostgreSQL to RDS for PostgreSQL	This practice describes how to use DRS to synchronize data from a self-managed PostgreSQL database to an RDS for PostgreSQL DB instance.
	From PostgreSQL on Other Clouds to RDS for PostgreSQL	This practice describes how to use DRS to synchronize data from PostgreSQL databases on other clouds to RDS for PostgreSQL.
	From Oracle to RDS for PostgreSQL	This practice describes how to use DRS to synchronize data from a self-managed Oracle database to an RDS for PostgreSQL DB instance.
	From RDS for MySQL to RDS for PostgreSQL	This practice describes how to use DRS to synchronize data from an RDS for MySQL DB instance to an RDS for PostgreSQL DB instance.
	From Self-Managed MySQL to RDS for PostgreSQL	This practice describes how to use DRS to synchronize data from a self-managed MySQL database to an RDS for PostgreSQL DB instance.
	From MySQL on Other Clouds to RDS for PostgreSQL	This practice describes how to use DRS to synchronize data from MySQL databases on other clouds to RDS for PostgreSQL.
Data backup	Same-Region Automated Backup	This practice describes how RDS for PostgreSQL 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.
Data restoration	Restoring from Full Backups to RDS for PostgreSQL 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.