

Huawei HCIA Certification Training

HCIA-openGauss

Lab Guide

Issue: 1.0



Huawei Technologies Co., Ltd.

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Huawei Certification System

Huawei Certification, which adheres to the "platform + ecosystem" development strategy based on a new "Cloud-Pipe-Terminal" collaborative ICT architecture, is a complete certification system covering two categories: ICT infrastructure certification, and cloud service & platform certification.

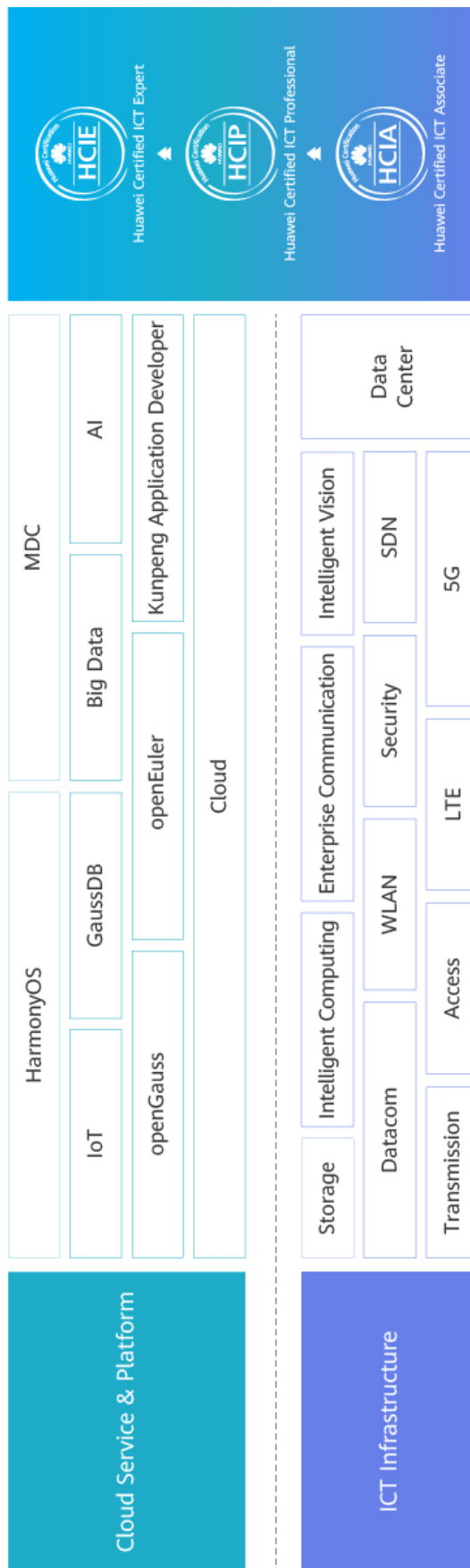
Huawei offers three levels of certification: Huawei Certified ICT Associate (HCIA), Huawei Certified ICT Professional (HCIP), and Huawei Certified ICT Expert (HCIE).

In keeping with the ICT convergence trend, Huawei Certification covers all ICT fields. Through its leading talent development system and certification standards, Huawei is committed to cultivating new ICT professionals in the digital era and building a healthy ICT talent ecosystem.

HCIA-openGauss certification is particular for openGauss engineers. It is intended to improve the skills of database development engineers and personnel dedicated to database development. The certification provides rich in-class experiments and industry cases to improve trainees' practical capabilities and promote the cultivation of database talent.

The Huawei certification system introduces the industry, fosters innovation, and imparts cutting-edge WLAN knowledge.

Huawei Certification



About This Document

Introduction

This document is designed for the HCIA-openGauss certification training. It is intended for trainees who are going to take the HCIA-openGauss exam or readers who want to understand the basic knowledge of openGauss and GaussDB(for openGauss) as well as classification and application scenarios of SQL syntax.

Description

This document consists of five parts, including openGauss installation and deployment, database and object management, SQL syntax in openGauss, GaussDB(for openGauss), and scenario-based comprehensive experiment.

- Experiment 1 is about openGauss environment setup and operations. It aims to help trainees understand how to deploy and connect to openGauss by purchasing Elastic Cloud Servers (ECSs) on HUAWEI CLOUD.
- Experiment 2 is about openGauss and object management. It aims to help trainees manage objects of openGauss by managing tablespaces, databases, and users in openGauss.
- Experiment 3 is about SQL syntax basics. It aims to help trainees master SQL syntax basics through data definition language (DDL) and data manipulation language (DML) operations.
- Experiment 4 is about GaussDB(for openGauss). It aims to describe how to add, delete, modify, and query data in the database by purchasing GaussDB(for openGauss) on HUAWEI CLOUD and connecting to the database by using Data Admin Service (DAS).
- Experiment 5 is a comprehensive experiment. It shows related operations performed on openGauss in the financial industry, including object management, connection management, user management, SQL statements, indexes, and views, with an aim to help trainees master openGauss through practices in real scenarios.

Background Knowledge Required

This course is for Huawei's basic certification. To better understand this course, familiarize yourself with the following:

- Computer basics, HUAWEI CLOUD console, and Linux basics.



Lab Environment

Networking Description

This lab environment is intended for database engineers who are preparing for the HCIA-openGauss exam. One GaussDB(for openGauss), one DAS, one elastic IP address (EIP), and one ECS are provided for each lab environment.

Devices

To meet the HCIA-openGauss lab requirements, you are advised to use the following configurations in each lab environment:

The mapping between device, model, and version is as follows.

Table 1-1 Mapping

Device	Model	Version
GaussDB	GaussDB(for openGauss)	Version 1.4
DAS	DAS	-
EIP	EIP	-
ECS	2 vCPUs 4 GiB	-
openGauss	openGauss	2.0.0

1 Purchasing an ECS

1.1 Overview

1.1.1 About This Experiment

This experiment shows how to purchase an ECS on HUAWEI CLOUD, configure the ECS, connect to it, and perform operations on it.

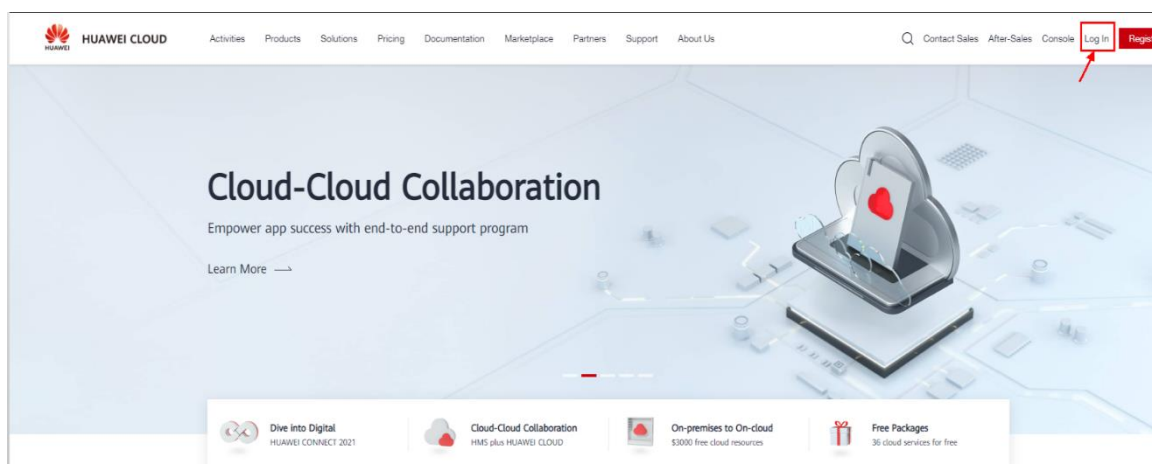
1.1.2 Objectives

- Master the process of purchasing an ECS.
- Learn how to connect to an ECS.

1.2 Purchasing an ECS (Arm-based openEuler)

1.2.1 Logging In to HUAWEI CLOUD


Step 1 Log in to the HUAWEI CLOUD official website at <https://www.huaweicloud.com/>, and click **Log In**.



Step 2 Enter the account name and password, and click **LOG IN**.



Log in to HUAWEI ID



LOG IN

[Register](#) | [Forgot password](#)

Use Another Account

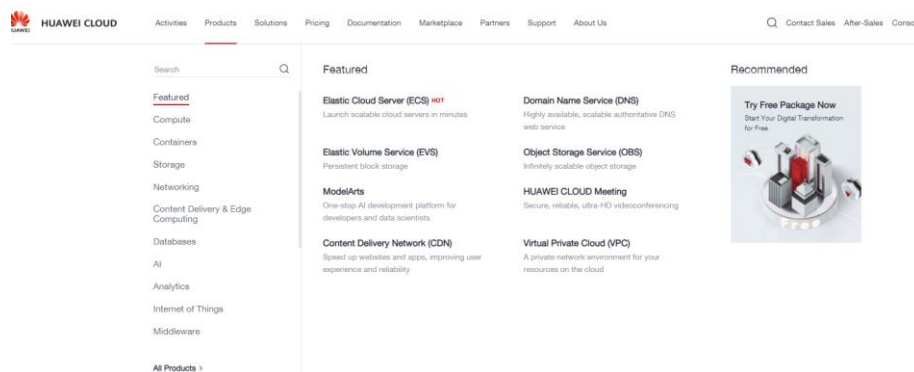
[IAM User](#) | [Federated User](#) | [Huawei Website Account](#) |
[Huawei Enterprise Partner](#) | [HUAWEI CLOUD Account](#)

Your account and network information will be used to help improve your login experience. [Learn more](#)

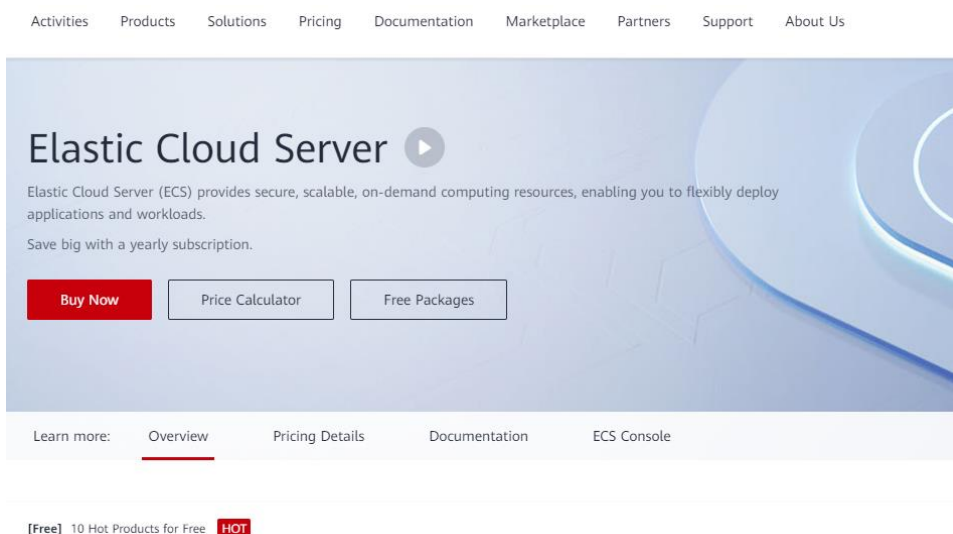
If you have not registered with HUAWEI CLOUD, click **Register** to register a HUAWEI CLOUD account first.

1.2.2 Purchasing an ECS

Step 1 On the HUAWEI CLOUD homepage (<https://www.huaweicloud.com/>), choose **Products > Featured > Elastic Cloud Server (ECS)**.



Step 2 Access the Elastic Cloud Server page.



Step 3 Configure the basic settings for your purchase.

Table 1-1 Basic ECS configurations

Item	Value
Billing Mode	Pay-per-use (Mandatory. Then, you need to configure the fee.)
Region	CN North-Beijing4 (Recommended. openEuler public images may not be available if you select other regions.)
CPU Architecture	Kunpeng
Specifications	2 vCPUs 4 GB
Image	Public image openEuler openEuler 20.03 64bit with ARM(40 GB)



HClA-openGauss Lab Guide

Configure Basic Settings

Configure Advanced Settings

Configure Networking

Billing Mode

Yearly/bi-annually

Pay-as-you-go

Spot price

Region

China North-1 Beijing

Recommended

China North-2 Ulan, Inner Mongolia

China South-1 Guangzhou

China South-2 Guangzhou

China East-1 Beijing

China East-2 Shanghai

For low network latency and quick internet access, select the region nearest to your target users. Learn how to select a region.

AZ

Available

AZ1

AZ2

AZ3

AZ4

CPU Architecture

x86

ARM64

Specifications

Latest generation

vCPU

All

Memory

All

Flavor Name

As accelerated

Running general computing class

Running memory optimized

Running ultra-high IO

	Flavor Name	vCPUs / Memory	IO	CPU	IO	Assumed / Maximum Bandwidth	Packets Per Second (PPS)	Estimated Price
<input type="radio"/>	h1.4.large.2	4 vCPUs / 16GB		Humant Kubernetes S20 2.0Gbps		1.5 / 1.5 Gbps	300,000	\$0.65/ hour
<input type="radio"/>	h1.4.xlarge.4	4 vCPUs / 16GB		Humant Kubernetes S20 2.0Gbps		1.5 / 1.5 Gbps	300,000	\$0.81/ hour
<input type="radio"/>	h1.2.xlarge.2	8 vCPUs / 16GB		Humant Kubernetes S20 2.0Gbps		2 / 7 Gbps	800,000	\$1.20/ hour
<input type="radio"/>	h1.2.4xlarge.4	8 vCPUs / 16GB		Humant Kubernetes S20 2.0Gbps		2 / 7 Gbps	800,000	\$1.63/ hour
<input type="radio"/>	h1.3.4xlarge.4	12 vCPUs / 24GB		Humant Kubernetes S20 2.0Gbps		4.5 / 9 Gbps	1,100,000	\$1.80/ hour
<input type="radio"/>	h1.3.4xlarge.4	12 vCPUs / 48GB		Humant Kubernetes S20 2.0Gbps		4.5 / 9 Gbps	1,100,000	\$2.44/ hour
<input type="radio"/>	h1.4.4xlarge.2	16 vCPUs / 32GB		Humant Kubernetes S20 2.0Gbps		6 / 12 Gbps	1,400,000	\$2.40/ hour

Selected specifications

Running general computing class: h1.4.large.2 | 4 vCPUs | 4GB

Image

Public Image

Private Image

Shared Image

Marketplace Image

☒ Operating System

operating-system-2019.03.01.0001

Host Security

Enable

Basic Host

Enterprise (additional charges apply)

System Disk

General Purpose SSD

40

GB

IOPS limit: 2,380 IOPS

IOPS limit: 6,000

Quantity

1

\$1 Price

\$0.3388/ hour

Retain the default settings for the other items and click **Next: Configure Network**.

Step 4 Configure the network for your purchase.

Table 1-2 ECS network configuration

Item	Value
Network	vpc-default(192.168.0.0/16) (existing default network)
EIP	Auto assign
Billed by	Traffic
Bandwidth Size	5

Network

vpn-default/192.168.0/16 ▾ subnet-default/192.168.0/24 ▾ Automatically assigned IP address ▾ Available private IP addresses: 250 ⓧ

Create VPC

Extension NIC

⊕ Add NIC NICs you add will add 1

Security Group

Txn-WildServer-09f9d84a-52c3-49ff-5858-5a757a1902... ▾ Create Security Group ⓘ

Similar to a firewall, a security group logically controls network access.
 Ensure that the selected security group allows access to port 22 (SSH-based Linux login), 3389 (Windows login), and ICMP (ping operation). Configure Security Group Rules.

Security Group Rules ↗

Inbound Rules Outbound Rules

Security Group Name	Priority	Action	Protocol & Port	Type	Source	Description
Txn-WildServer	1	Permit	TCP 80	IPv4	All	—
	1	Permit	ICMP All	IPv4	0.0.0.0/8	—
	1	Permit	All	IPv4	Txn-WildServer	—
	1	Permit	TCP 3389	IPv4	All	—
	1	Permit	All	IPv4	Txn-WildServer	—

EIP

☒ Auto assign ☐ Use existing ☐ Not required ⓘ

EIP Type

Dynamic NAT Static NAT

☒ Spectrum down or equal to 90% (90% service availability rate)

Billed By

☒ Bandwidth ☐ Traffic ☐ Shared bandwidth

For bandwidth traffic. For irregularly fluctuating traffic. For aggregated peak hours.

Billed based on total traffic, irrespective of usage duration; configurable maximum bandwidth size.

Bandwidth Size

5 10 20 50 100 Custom — 5 +

The bandwidth can be from 1 to 300 Mbps.

☒ Free Anti-DDoS protection



Retain the default settings for the other items and click **Next: Configure Advanced Settings**.

Step 5 Configure the advanced settings for your purchase.

1 Configure Basic Settings 2 Configure Network 3 Configure Advanced Settings 4 Confirm

ECS Name: ☐ Allow duplicate name
If you are creating multiple ECSs at the same time, automatic naming and customizable naming are available for you to select.

Login Mode: **Password** Key pair Set password later

Username: root

Password:

Confirm Password:

Cloud Backup and Recovery: To use CBR, you need to purchase a backup vault. A vault is a container that stores backups for servers.

ECS Group (Optional): **Anti-affinity**
--Select ECS group--
[Create ECS Group](#)

Advanced Options: ☐ Configure now

Quantity: ECS Price: **¥0.3388/hour** + EIP Traffic Price: **¥0.80/cb**
This price is an estimate and may differ from the final price. [Pricing details](#)

Note that **Username** is set to **root**, enter a custom password, and confirm the password. Retain the default settings for the other items, and click **Next: Confirm**.

Step 6 Verify the configurations for your purchase.

1 Configure Basic Settings 2 Configure Network 3 Configure Advanced Settings 4 Confirm

Configuration

Basic	
Billing Mode	Pay-per-use
Specifications	Kunpeng general computing-plus k1.large.2 2 vCPUs 4GB
System Disk	General Purpose SSD, 40 GB
Region	Beijing4
Image	openEuler 20.03 64bit with ARM
AZ	Host Security
AZ2	Basic (free)

Network	
VPC	vpc-default(192.168.0.0/16)
EIP	Dynamic BGP Bill By Traffic Bandwidth: 5 Mbit/s
Security Group	Syn-WildServer
Primary NIC	subnet-default(192.168.0.0/24)

Advanced	
ECS Name	ecs-43a0
Login Mode	Password
ECS Group	--

Quantity: You can create a maximum of 500 ECSs. [Learn how to increase quota.](#)

Agreement: ☒ I have read and agree to the [Image Disclaimer](#).

ECS Price: **¥0.3388/hour** + EIP Traffic Price: **¥0.80/cb**
This price is an estimate and may differ from the final price. [Pricing details](#)

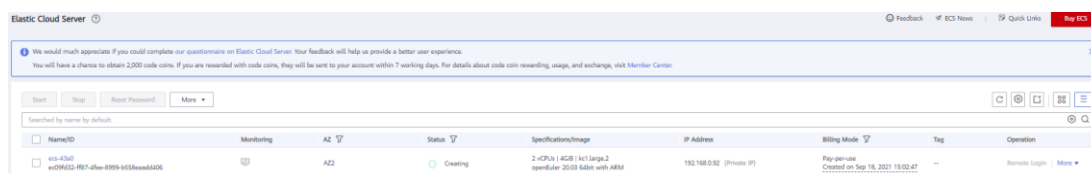
Confirm the configurations, especially about the fee, select **I have read and agree to the Image Disclaimer**, and click **Submit**.

Request submitted successfully.

Creating ECS ecs-43a0...

[Back to ECS List](#)

Viewing the ECS list

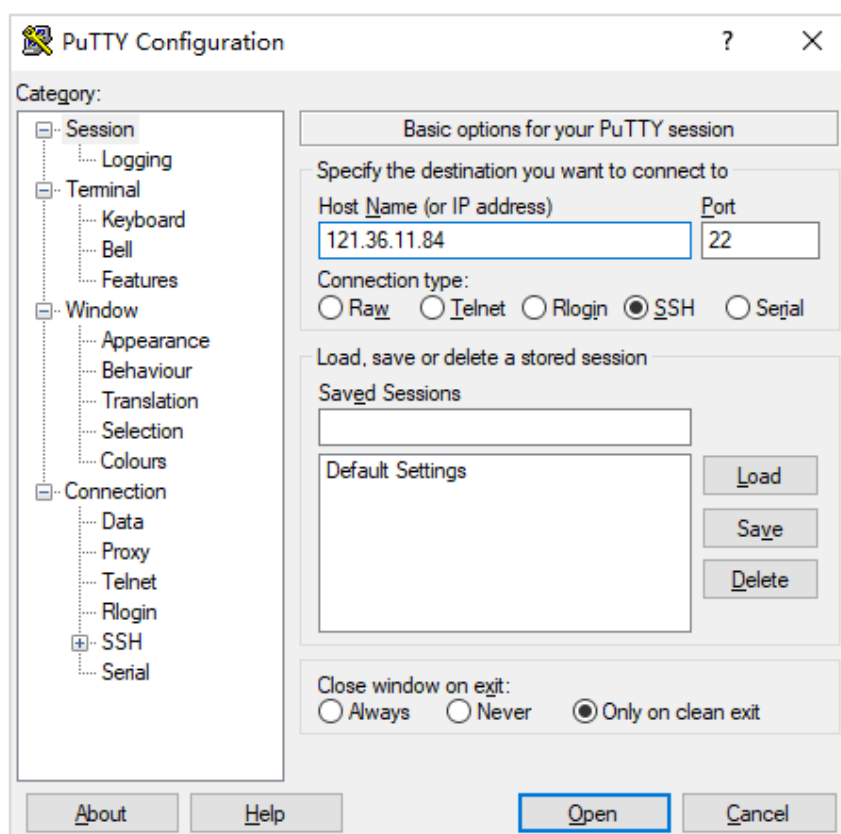


Name/ID	Monitoring	AZ	Status	Specifications/Image	IP Address	Billing Mode	Tag	Operation
ecs-43a0 ed9632-8b7-45e-8995-6556e6d06		AZ2	Creating	2 vCPUs 4GB 1c1.large.2 openEuler 20.03 x86_64 with AIB	192.168.0.92 (Private IP)	Pay-per-use Created on Sep 16, 2021 15:02:47		Remote Login More

The preceding figure shows that the purchase is complete.

Note: In this experiment, the price of the Kunpeng server is the open beta price. For details, see pricing details on the HUAWEI CLOUD official website.

Step 7 Run PuTTY, enter the EIP, and click **Open**.



Step 8 Use the configured password to log in to the ECS as user **root**.



```
121.36.11.84 - PuTTY

Authorized users only. All activities may be monitored and reported.
root@121.36.11.84's password:

      Welcome to Huawei Cloud Service

Last login: Thu Mar 25 15:52:39 2021

Welcome to 4.19.90-2003.4.0.0036.oel.aarch64

System information as of time:  Fri Mar 26 11:28:44 CST 2021

System load:      0.03
Processes:        129
Memory used:      4.9%
Swap used:        0.0%
Usage On:         13%
IP address:       192.168.0.92
Users online:     1

[root@opengauss01 ~]#
```

2 GaussDB(for openGauss)

2.1 Overview

2.1.1 About This Experiment

This experiment describes how to purchase GaussDB(for openGauss) on HUAWEI CLOUD, configure it, and perform operations on it.

2.1.2 Objectives

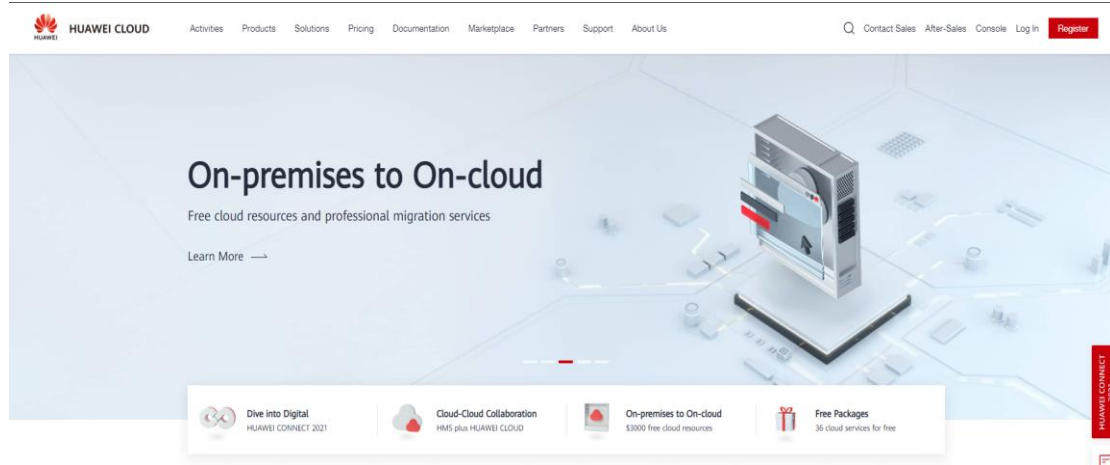
- Master the process of purchasing GaussDB(for openGauss).
- Master the usage of basic SQL statements in GaussDB(for openGauss).

2.2 Purchasing a GaussDB(for openGauss) Instance

GaussDB(for openGauss) is an enterprise-level distributed relational database developed based on the openGauss ecosystem led by Huawei. It features Hybrid Transactional/Analytical Processing (HTAP) capabilities and supports intra-city deployment across AZs, scale-out of more than 1,000 nodes, and storage for petabytes of data to ensure zero data loss. It is highly available, reliable, secure, and scalable, and provides key capabilities including quick deployment, backup, restoration, monitoring, and alarm reporting for enterprises.

2.2.1 Logging In to the HUAWEI CLOUD Official Website

Step 1 Open the HUAWEI CLOUD official website at <https://www.huaweicloud.com/intl/en-us/> and click **Log In** in the upper right corner of the page to access the HUAWEI CLOUD login page.



Step 2 Enter the username and password of the HUAWEI CLOUD account and click **LOG IN** to log in to the HUAWEI CLOUD official website.

Log in to HUAWEI ID

LOG IN

[Register](#) | [Forgot password](#)

[Use Another Account](#)

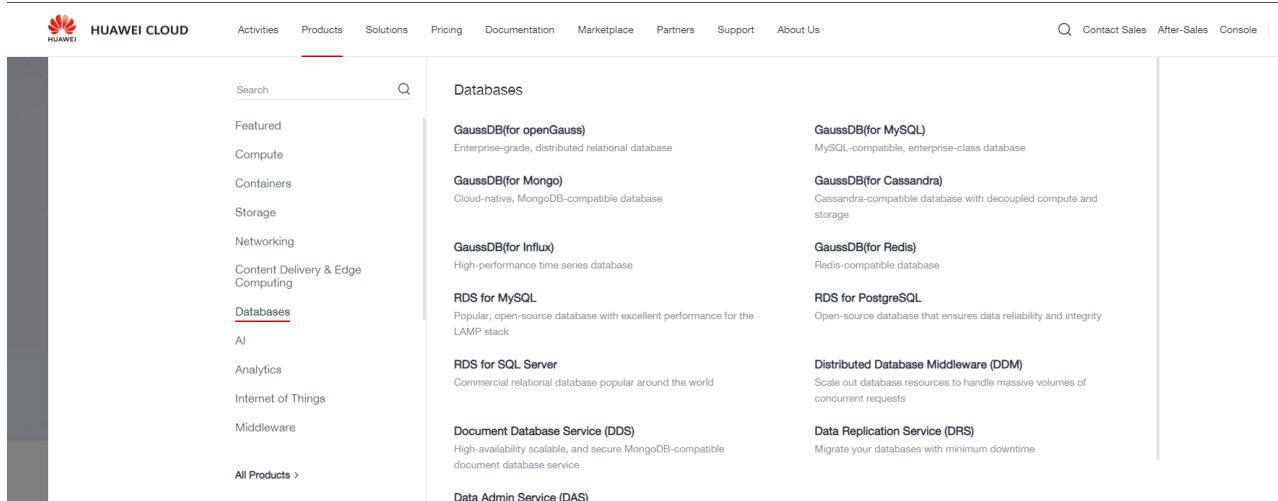
[IAM User](#) | [Federated User](#) | [Huawei Website Account](#) | [Huawei Enterprise Partner](#) | [HUAWEI CLOUD Account](#)

Your account and network information will be used to help improve your login experience. [Learn more](#)

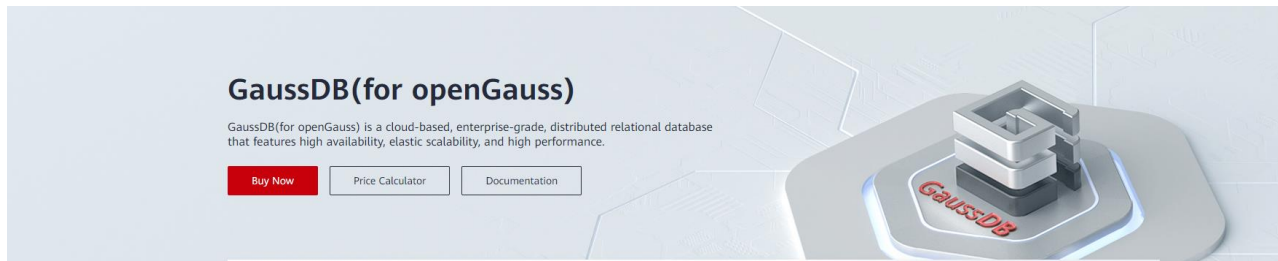
Step 3 Choose **Products > Databases > GaussDB(for openGauss)**.



HCIA-openGauss Lab Guide



Step 4 Click **Buy Now**.



2.2.2 Purchasing a Database Instance

Step 1 Set **Billing Mode** to **Pay-per-use**, **DB Instance Name** to a custom name, and **Transaction Consistency** to **Strong consistency**. In this experiment, high availability is not considered to reduce the experiment cost. As such, set both **Shards** and **Coordinator Nodes** to **1**. For details, see the following figure.



<

Buy DB Instance

Billing Mode

Yearly/Monthly

Pay-per-use

?

Region

CN North-Beijing4

▼

Regions are geographic areas isolated from each other. Resources are region-specific and c

DB Instance Name

gauss-4cc6

?

DB Engine

GaussDB(for openGauss)

DB Engine Version

1.4 Enterprise Edition

DB Instance Type

Distributed

Deployment Model

?

Independent

Transaction Consistency

?

Strong consistency

Eventual consistency

Replicas

—

3

+

Shards

—

3

+

Coordinator Nodes

?

—

3

+

AZ

cn-north-4b

cn-north-4a

cn-north-4c

Only one or three AZs can be selected.

Time Zone

UTC+08:00 Beijing, Chongqing, Hong Kong,...

▼

Step 2 Retain the default setting for **Instance Specifications**. For details, see the following figure.

Instance Specifications

?

General-enhanced II

Flavor Name

☒ 8 vCPUs | 64 GB

 Unavailable for production environment

☐ 16 vCPUs | 128 GB

☐ 32 vCPUs | 256 GB

☐ 64 vCPUs | 512 GB

DB Instance Specifications

General-enhanced II | 8 vCPUs | 64 GB

Storage Type

Ultra-high I/O

Learn more about storage types.

Storage Space (GB)

160 GB

160

3,300

6,450

9,600

16,000

—

160

+

?

Free backup storage space of the same size as your purchased storage space is provided. After the free backup space is used up, charges are applied based on the OBS pricing details.

Disk Encryption

Disable

Recommended

Enable

?

Step 3 Set Administrator Password and Confirm Password. Retain the default settings for the other items. Note that the configuration fee displayed in the lower left corner is about CNY84. For details, see the following figure.

Relationship among VPCs, subnets, security groups, and DB instances

VPC ?

If you want to create a VPC, go to the [VPC console](#).

Make sure there are enough private IP addresses available for future scale-ups. After the DB instance is created, the subnet cannot be changed. Available private IP addresses in the selected subnet: 251

Security Group ? [View Security Group](#)

The Sys-default security group is automatically created by default. It allows all outbound traffic and denies all inbound traffic. ECSs in this security group can communicate with each other and there is a security group rule that authorizes connections to DB instances apply to all DB instances associated with the security group.

Database Port

Administrator

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

Confirm Password

Parameter Template [View Parameter Template](#)

Tag

It is recommended that you use TMS's predefined tag function to add the same tag to different cloud resources. [View predefined tags](#)

You can add 10 more tags.

Step 4 Click Submit. The configuration confirmation page is displayed. After confirmation, the GaussDB(for openGauss) instance is purchased. The console is displayed, where you can see that the database is being created.

GaussDB

GaussDB(for MySQL) ▼

GaussDB(for openGauss) ▲

Instance Management

Backup Management

Parameter Template Management

Task Center

GaussDB(for openGauss) ?

We would much appreciate if you could complete our questionnaire on GaussDB. Your feedback will help us provide a better user experience. You will be rewarded with 20 code coins after you complete our questionnaire and you will have a chance to receive up to 2,000 code coins if you complete more questionnaires. If you are rewarded with code coins, they will be sent to your account within 7 working days. For details about code coin rewarding, usage, and exchange, visit

DB instance name Search by Tag

Name/ID	DB Instance Type	DB Engine Version	Status	Billing Mode	Private IP Address	Operation
gauss-a163 cafee77bdfaf4cd79d2a16efb3edc19a114	Distributed	GaussDB(for openGauss) ...	Creating	Pay-per-use	...	View Metric More

Step 5 Verify that the instance is successfully created and the instance state is Available, as shown in the following figure.

GaussDB

GaussDB(for MySQL) ▼

GaussDB(for openGauss) ▲

Instance Management

Backup Management

Parameter Template Management

Task Center

GaussDB(for openGauss) ?

We would much appreciate if you could complete our questionnaire on GaussDB. Your feedback will help us provide a better user experience. You will be rewarded with 20 code coins after you complete our questionnaire and you will have a chance to receive up to 2,000 code coins if you complete more questionnaires. If you are rewarded with code coins, they will be sent to your account within 7 working days. For details about code coin rewarding, usage, and exchange, visit

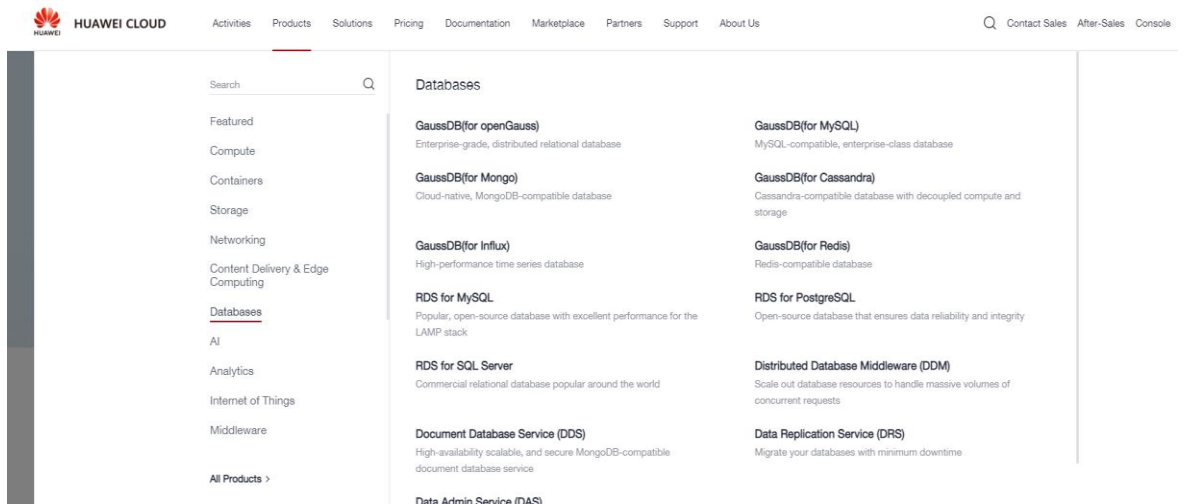
DB instance name Search by Tag

Name/ID	DB Instance Type	DB Engine V...	Status	Billing Mode	Private IP Address	Operation
gauss-a163 cafee77bdfaf4cd79d2a16efb3edc...	Distributed	GaussDB(for open...	Available	Pay-per-use	192.168.0.241	View Metric More

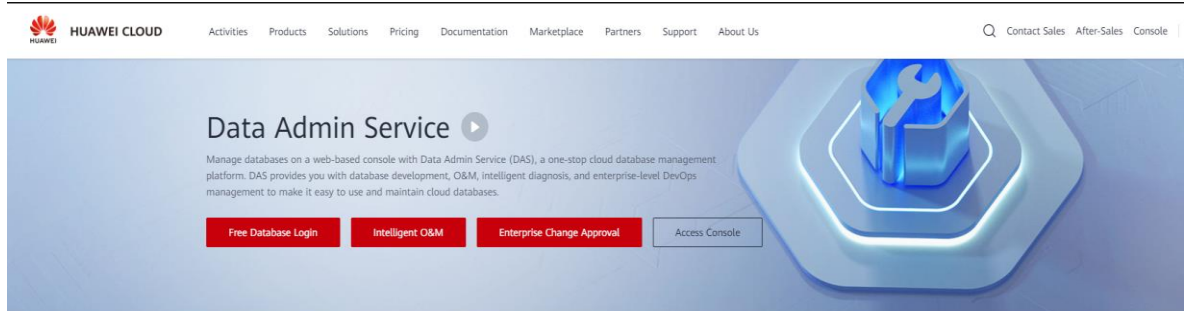
2.3 Using DAS

2.3.1 Connecting to the Database by Using DAS

Step 1 Log in to the HUAWEI CLOUD official website at <https://www.huaweicloud.com/>, and choose **Products > Databases > Data Admin Service (DAS)**.

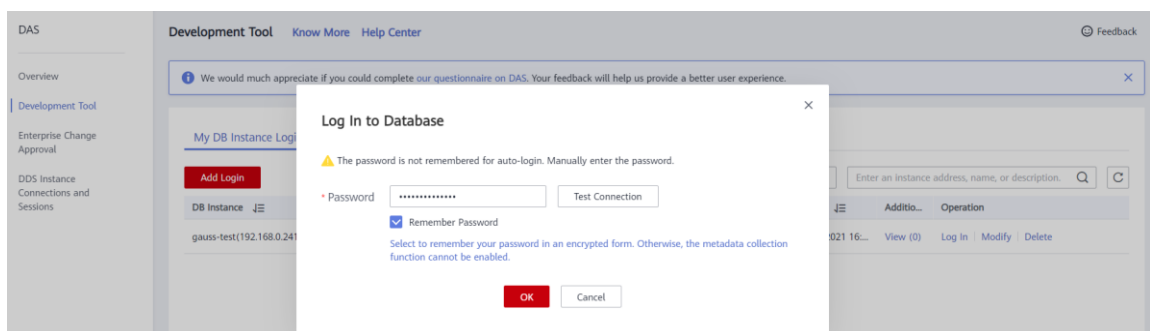


Step 2 Click **Free Database Login**.



Step 3 Click **Development Tool**, locate GaussDB(for openGauss), and click **Log In**.

Enter the password set during database instance creation, select **Remember Password**, and click **Test Connection**. After the connection test is successful, click **OK**.



3 Resource Release Experiment

3.1 Overview

3.1.1 About This Experiment

This experiment shows how to delete an ECS instance and GaussDB(for openGauss) on HUAWEI CLOUD, aiming to help trainees understand how to clear ECS and GaussDB(for openGauss) resources on HUAWEI CLOUD.

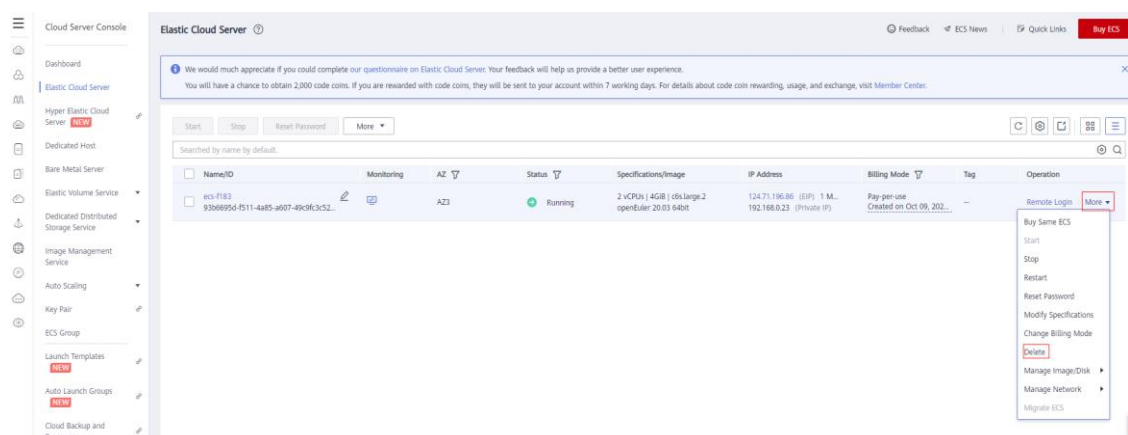
3.1.2 Objectives

- Know how to release ECS resources.
- Know how to release GaussDB(for openGauss) resources.
- Get familiar with operations on HUAWEI CLOUD.

3.2 Deleting an ECS and Related Resources

After the experiment is complete, delete the charged resources on HUAWEI CLOUD to avoid unnecessary charging. Locate the created ECS and perform the following steps to delete it.

Step 1 Access the ECS console, locate the row that contains the ECS to be deleted, and choose **More > Delete**.



Step 2 In the dialog box that is displayed, select Release the EIPs bound to the ECSs and Delete all data disks attached to the ECSs, and click **Yes**.

Delete ECS




Are you sure you want to delete the ECSs?

Deleting the ECS will also delete the associated system disk and its snapshots. The deleted ECS, system disk, and snapshots cannot be recovered. If you choose to delete all data disks attached to the ECS, the data disks and their snapshots will also be deleted and cannot be recovered. If you choose not to delete the attached data disks, they will continue to be billed. After the ECS is deleted, its associated CSBS backup will be retained and will continue to be billed. To avoid being billed for the backup, delete it on the CSBS console.

After the ECS is deleted, it takes about 1 minute to delete associated disks. Do not perform any operation on the disks during this period. Otherwise, the disk deletion may fail. If this occurs, you will need to delete the disks on the EVS console.

When a data disk is deleted, its snapshots are also deleted.

Name	Status	Remarks
ecs-f183	 Running	--

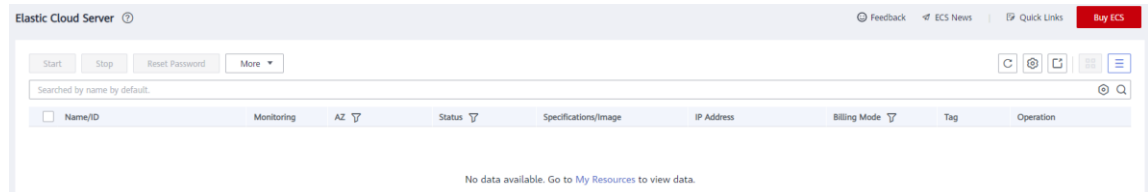
Unreleased EIPs or data disks will continue to be billed.

☒ Release the EIPs bound to the ECSs ☒ Delete all data disks attached to the ECSs

Yes

No

Step 3 If no resource is displayed in the list, the ECS has been deleted.



3.3 Deleting GaussDB(for openGauss) Resources

After the experiment is complete, delete the charged resources on HUAWEI CLOUD to avoid unnecessary charging. Locate the created GaussDB(for openGauss) and perform the following steps to delete it.

Step 1 Access the GaussDB console, locate the row that contains the GaussDB(for openGauss) instance to be deleted, and choose **More > Delete**.



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GaussDB

GaussDB(for MySQL)

GaussDB(for openGauss)

Instance Management

Backup Management

Parameter Template Management

Task Center

GaussDB(for openGauss)

We would much appreciate if you could complete our questionnaire on GaussDB. Your feedback will help us provide a better user experience.

You will be rewarded with 20 code coins after you complete our questionnaire and you will have a chance to receive up to 2,000 code coins if you complete more questionnaires. If you are rewarded with code coins, they will be sent to your account within 7 working days. For details about code coin rewarding, usage, and exchange, visit

DB instance name

Enter a keyword.

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Name/ID	DB Instance Type	DB Engine Version	Status	Billing Mode	Private IP Address	Operation
gauss-3864 177ec698afdc491aad28e0ff2707...	Distributed	GaussDB(for open...	Available	Pay-per-use Created on Oct 10, 20...	192.168.0.44	<div>View Metric</div> <div>More</div> <div>Scale Storage Space</div> <div>Create Backup</div> <div>Reset Password</div> <div>Reboot</div> <div>Delete</div>

Step 2 In the dialog box that is displayed, confirm the information and click **Yes**.

Are you sure you want to delete this DB instance?

Deleted DB instances cannot be recovered and their automated backups will also be deleted. Exercise caution when performing this operation. If you want to retain data, create a manual backup before deleting the DB instance.

DB Instance Name	DB Instance Type	Status
gauss-test	Distributed	Available

Yes

No

Step 3 If no resource is displayed in the list, the GaussDB(for openGauss) instance has been deleted.

GaussDB

GaussDB(for MySQL)

GaussDB(for openGauss)

Instance Management

Backup Management

Parameter Template Management

Task Center

GaussDB(for openGauss)

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No data available.