VPC Endpoint

Service Overview

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What Is VPC Endpoint?

VPC Endpoint is a cloud service that provides secure and private channels to connect your VPCs to VPC endpoint services, including cloud services or your private services. It allows you to plan networks flexibly without having to use EIPs.

Architecture

There are two types of resources: VPC endpoint services and VPC endpoints.

- VPC endpoint services are cloud services or private services that you manually configure in VPC Endpoint. You can access these endpoint services using VPC endpoints.
 - For more information, see VPC Endpoint Services.
- VPC endpoints are secure and private channels for connecting VPCs to VPC endpoint services.
 - VPC endpoints are classified into interface VPC endpoints and gateway
 VPC endpoints based on the types of VPC endpoint services they access.
 - Interface VPC endpoints: They access interface VPC endpoint services and are elastic network interfaces that have private IP addresses.
 - Gateway VPC endpoints: They access gateway VPC endpoint services and serve as gateways with routes configured to distribute traffic to the associated gateway VPC endpoint services.
 - There are professional and basic VPC endpoints. Different editions have different features.
 - Professional: This newly released VPC endpoint type is available in the CN East2, ME-Riyadh, CN East-Qingdao, and AF-Cairo regions. A VPC endpoint supports up to 10 Gbit/s of bandwidth and IPv4 and IPv6 dual stack.
 - Basic: Basic VPC endpoints refer to previous VPC endpoints.

For more information, see **VPC Endpoints**.

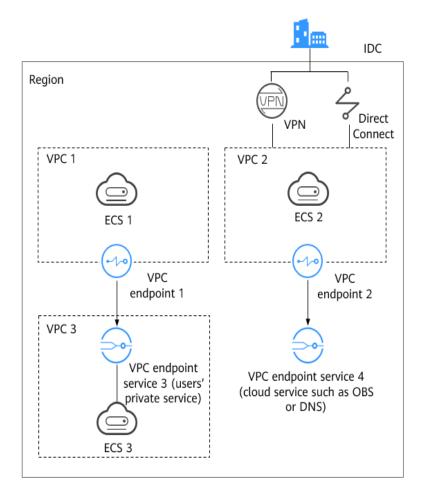


Figure 1-1 How VPC Endpoint works

Figure 1-1 shows the process of establishing channels for network communications between:

- VPC 1 (ECS 1) and VPC 3 (ECS 3)
- VPC 2 (ECS 2) and cloud services such as OBS and DNS
- IDC and VPC 2 over VPN or Direct Connect to finally access a cloud service such as OBS or DNS

For more information, see **Application Scenarios**.

Accessing VPC Endpoint

You can access VPC Endpoint using any of the following:

- Huawei Cloud management console
 - If you have signed up an account with Huawei Cloud, log in to the management console and choose Networking > VPC Endpoint.
 - If you do not have an account, create one with Huawei Cloud first by referring to Preparations.

Upon a quick configuration on the management console, you can start using VPC Endpoint.

APIs

Use this method if you need to integrate VPC Endpoint into a third-party system for secondary development. For details, see **VPC Endpoint API Reference**.

Product Advantages

- **Excellent Performance**: Each gateway supports up to 1 million concurrent connections, meeting requirements in different service scenarios.
- **Ready to Use**: VPC endpoints take effect a few seconds after they are created.
- **Easy to Use**: You can use VPC endpoints to access resources over private networks, without having to use EIPs.
- **High Security**: VPC endpoints enable you to access VPC endpoint services without exposing server information, minimizing security risks.

3 Application Scenarios

VPC Endpoint establishes a secure and private channel between a VPC endpoint (cloud resources in a VPC) and a VPC endpoint service in the same region.

You can use VPC Endpoint in different scenarios.

High-Speed Access to Cloud Services

After you connect an IDC to a VPC using VPN or Direct Connect, you can use a VPC endpoint to connect the VPC to a cloud service or one of your private services, so that the IDC can access the cloud service or private service.

Figure 3-1 Access to cloud services

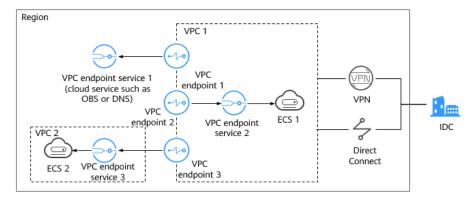


Figure 3-1 shows the process of connecting an IDC to VPC 1 over VPN or Direct Connect, for accessing:

- OBS or DNS using VPC endpoint 1
- ECS 1 in VPC 1 using VPC endpoint 2
- ECS 2 in VPC 2 using VPC endpoint 3

For cloud migration, VPC Endpoint has the following advantages:

Simple and efficient
 The IDC is directly connected to the VPC endpoint service over a private network, reducing access latency and improving efficiency.

Low cost

With VPC Endpoint, your IDC can access cloud resources over a private network, reducing your costs on public resources.

For details, see Configuring a VPC Endpoint for Accessing the Private IP Address of OBS over Private Networks.

Cross-VPC Connection

VPC Endpoint enables your resources in two different VPCs within a region to communicate with each other.

Ⅲ NOTE

VPC endpoints and VPC peering connections are different in security, communications methods, route configurations, and more.

For more information, see What Are the Differences Between VPC Endpoints and VPC Peering Connections?

Figure 3-2 Cross-VPC connection

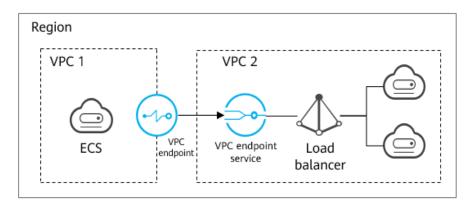


Figure 3-2 shows how an ECS in VPC 1 uses a VPC endpoint to access a load balancer in VPC 2 over a private network.

VPC Endpoint has the following advantages:

- High performance
 Each gateway supports up to one million concurrent connections.
- Simplified operations
 VPC Endpoint resources can be created within seconds and take effect quickly.

For details, see the following sections:

- Configuring a VPC Endpoint for Communications Across VPCs of the Same Account
- Configuring a VPC Endpoint for Communications Across VPCs of Different Accounts

4 Notes and Constraints

Resource Quotas

Table 4-1 describes quotas and constraints on VPC Endpoint resources.

Table 4-1 VPC Endpoint resource quotas and constraints

Resource	Default Quota and Constraint s	How to Increase Quota
VPC endpoint services per account in one region	20	Submit a service ticket.
VPC endpoints per account in one region	50	Submit a service ticket.
Traffic types	 Basic: indicate s the original VPC endpoints, which support IPv4 traffic. Professional: IPv4 and IPv6 traffic 	N/A

Resource	Default Quota and Constraint s	How to Increase Quota
Types of backend resources that can be configured as VPC endpoint services	Load balancer, ECS, and BMS	
Protocols supported by VPC endpoint services	TCP and UDP	

Other Constraints

Basic VPC endpoints:

- When you a VPC endpoint, ensure that the associated VPC endpoint service is deployed in the same region as the VPC endpoint.
- One VPC endpoint can connect to only one VPC endpoint service.
- One VPC endpoint service can have only one backend resource.
- One VPC endpoint supports up to 3,000 concurrent connections.
- One VPC endpoint service can be connected by multiple VPC endpoints.

Professional VPC endpoints:

- Before purchasing a VPC endpoint, ensure that in the same region, there is a VPC endpoint service to be connected.
- One VPC endpoint can connect to only one VPC endpoint service.
- One VPC endpoint service can be connected by multiple VPC endpoints.
- One VPC endpoint service can have only one backend resource.
- One VPC endpoint supports up to 50,000 new connections.
- One VPC endpoint supports up to 1,000,000 concurrent connections.
- One VPC endpoint supports up to 10 Gbit/s of bandwidth.

5 VPC Endpoint and Other Services

Table 5-1 shows the relationship between VPC Endpoint and other cloud services.

Table 5-1 Relationships with other services

Interactive Function	Service	Reference
Creating VPC endpoint services for resources in your VPC	VPC	 Configuring a VPC Endpoint for Communications Across VPCs of the Same Account Configuring a VPC Endpoint for Communications Across VPCs of Different Accounts
Connecting your on- premises data center to your VPC using a VPN connection and connecting your on- premises data center to a cloud service in another VPC through VPC Endpoint	VPN	Configuring a VPC Endpoint for Accessing the Private IP Address of OBS over Private Networks
Connecting your on- premises data center to your VPC using a Direct Connect connection and connecting your on- premises data center to a cloud service in another VPC through VPC Endpoint	Direct Connect	Configuring a VPC Endpoint for Accessing the Private IP Address of OBS over Private Networks

Interactive Function	Service	Reference
Creating IAM users and controlling their access to VPC Endpoint resources	IAM	Permissions
Configured as a gateway VPC endpoint service by default. You can buy a VPC endpoint to access the VPC endpoint service.	OBS	Buying a VPC Endpoint
Configured as an interface VPC endpoint service by default. You can buy VPC endpoints to access these endpoint services.	DNS	Buying a VPC Endpoint
Configured as an interface VPC endpoint service by default. You can buy VPC endpoints to access these endpoint services.	API Gateway	Buying a VPC Endpoint
Configuring a private service as a VPC endpoint service. You can buy a VPC endpoint to access the VPC endpoint service.	ELB	Creating a VPC Endpoint Service
Configuring a private service as a VPC endpoint service. You can buy a VPC endpoint to access the VPC endpoint service.	ECS	Creating a VPC Endpoint Service
Configuring a private service as a VPC endpoint service. You can buy a VPC endpoint to access the VPC endpoint service.	BMS	Creating a VPC Endpoint Service

6 Billing

Billing Items

VPC Endpoint provides two types of resources: VPC endpoint services and VPC endpoints. VPC endpoint services are free. VPC endpoints are classified into professional and basic VPC endpoints.

- Professional VPC endpoints are available in the CN East2, ME-Riyadh, CN
 East-Qingdao, and AF-Cairo regions. Your billing will depend on the duration
 of your purchase and the volume of data processed.
 - For professional VPC endpoints, you can set its payer to the VPC endpoint service user or provider. For details, see **Payer Description**.
- **Basic** VPC endpoints are charged based on the duration of your purchase.

The billing mode for VPC endpoints is pay-per-use.

Table 6-1 VPC endpoint billing

Туре	Billing Mode	Billing Item	Formula
Profession al	Pay-per-use	VPC endpoint	Pricing per VPC endpoint per hour x Required duration
		Traffic	Pricing per GB of data processed x Data processed
Basic	Pay-per-use	VPC endpoint	If the VPC endpoint is used to connect to a DNS or OBS VPC endpoint service, the VPC endpoint is free.
			If the VPC endpoint is not used to connect to a DNS or OBS VPC endpoint service, the VPC endpoint price is calculated as follows: Pricing per VPC endpoint per hour x Required duration

After you purchase a VPC endpoint, you will be charged based on how many hours the VPC endpoint is retained in your account, regardless of whether the VPC endpoint connects to a VPC endpoint service or whether it interacts with the VPC endpoint service.

If the VPC endpoint service is deleted or its owner refuses your VPC endpoint, the VPC endpoint cannot be used but will still be billed. Delete the VPC endpoint in a timely manner to avoid unnecessary charges.

For details, see **Product Pricing Details**.

Billing Modes

Pay-per-use

Basic VPC endpoints are billed based on how long (accurate to seconds) the VPC endpoint remains provisioned in your account.

Professional VPC endpoints are billed based on how long (accurate to seconds) the VPC endpoint remains provisioned in your account and the amount of data processed.

Billing Formula

- Basic VPC endpoints: Pricing per VPC endpoint per hour x Required duration
- Professional VPC endpoints: Pricing per VPC endpoint per hour x Required duration + Pricing per GB of data processed x Data processed

For example, if you buy a VPC endpoint and retain it in your account for 5 hours, you will be charged for the 5 hours you keep it.

Billing starts after you purchase a VPC endpoint even if you never use it.

Payer Description

VPC Endpoint allows you to authorize other Huawei Cloud accounts to use your own VPC endpoint services. For details, see **Managing Whitelist Records of a VPC Endpoint Service**.

If the professional VPC endpoint you use and the VPC endpoint service it will connect to belong to different Huawei Cloud accounts, you can **submit a service ticket** to set the payer to the VPC endpoint service user or provider.

- Payment made by the VPC endpoint service user (default): The VPC endpoint account pays for all fees related to the VPC endpoint.
- Payment made by the VPC endpoint service provider: The account to which
 the VPC endpoint service belongs pays for all fees related to the VPC
 endpoints connected to it.

Renewal

For details, see **Renewal Management**.

Expiration and Overdue Payment

For details, see **Service Suspension and Resource Release** and **Payment and Repayment**.

7 Security

7.1 Shared Responsibilities

Huawei guarantees that its commitment to cyber security will never be outweighed by the consideration of commercial interests. To cope with emerging cloud security challenges and pervasive cloud security threats and attacks, Huawei Cloud builds a comprehensive cloud service security assurance system for different regions and industries based on Huawei's unique software and hardware advantages, laws, regulations, industry standards, and security ecosystem.

Figure 7-1 illustrates the responsibilities shared by Huawei Cloud and users.

- Huawei Cloud: Ensure the security of cloud services and provide secure clouds. Huawei Cloud's security responsibilities include ensuring the security of our IaaS, PaaS, and SaaS services, as well as the physical environments of the Huawei Cloud data centers where our IaaS, PaaS, and SaaS services operate. Huawei Cloud is responsible for not only the security functions and performance of our infrastructure, cloud services, and technologies, but also for the overall cloud O&M security and, in the broader sense, the security and compliance of our infrastructure and services.
- **Tenant**: Use the cloud securely. Tenants of Huawei Cloud are responsible for the secure and effective management of the tenant-customized configurations of cloud services including IaaS, PaaS, and SaaS. This includes but is not limited to virtual networks, the OS of virtual machine hosts and guests, virtual firewalls, API Gateway, advanced security services, all types of cloud services, tenant data, identity accounts, and key management.

Huawei Cloud Security White Paper elaborates on the ideas and measures for building Huawei Cloud security, including cloud security strategies, the shared responsibility model, compliance and privacy, security organizations and personnel, infrastructure security, tenant service and security, engineering security, O&M security, and ecosystem security.

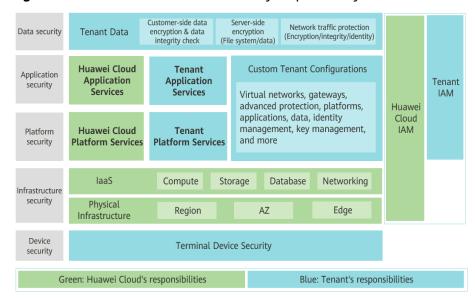


Figure 7-1 Huawei Cloud shared security responsibility model

7.2 Identity and Access Management

Permissions Management

You can use Identity and Access Management (IAM) to control access to your VPC Endpoint resources. IAM permissions define which actions on your cloud resources are allowed or denied. After creating an IAM user, the administrator needs to add it to a user group and grant the permissions required by VPC Endpoint to the user group. Then, all users in this group automatically inherit the granted permissions.

For details, see **Permissions**.

Access Control

- To control the access to a VPC endpoint service in one account from a VPC endpoint in another, configure a whitelist for the VPC endpoint service. For details, see Managing Whitelist Records of a VPC Endpoint Service.
- To control IP addresses and CIDR blocks that can access a VPC endpoint, configure a whitelist. When or after purchasing a VPC endpoint, you can enable or disable access control for the VPC endpoint, and add or delete a whitelist record. For details, see Configuring Access Control for a VPC Endpoint.

7.3 Auditing and Logging

Cloud Trace Service (CTS) is a log audit service intended for Huawei Cloud security. It allows you to collect, store, and query cloud resource operation records. You can use these records to perform security analysis, audit compliance, track resource changes, and locate faults.

After CTS is enabled, it can record VPC Endpoint operations.

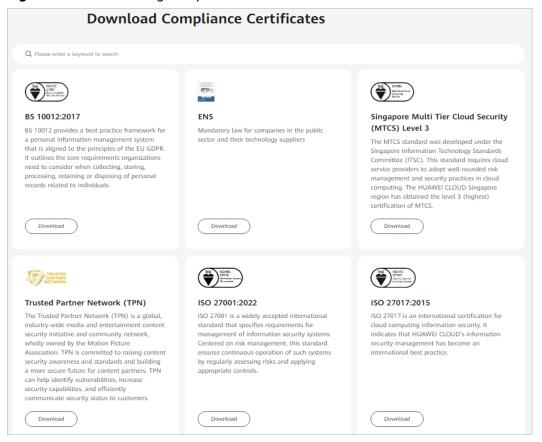
- For details about how to enable and configure CTS, see Enabling CTS.
- For details about key operations of VPC Endpoint, see Key Operations Recorded by CTS.
- For details about traces, see Viewing Traces.

7.4 Certificates

Compliance Certificates

Huawei Cloud services and platforms have obtained various security and compliance certifications from authoritative organizations, such as International Organization for Standardization (ISO). You can **download** them from the console.

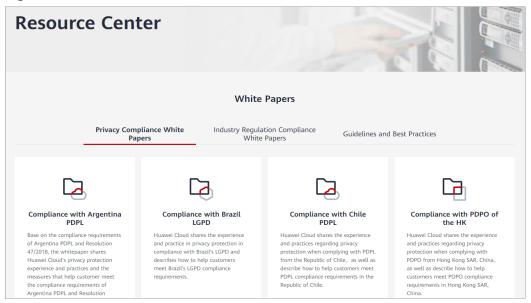
Figure 7-2 Downloading compliance certificates



Resource Center

Huawei Cloud also provides the following resources to help users meet compliance requirements. For details, see **Resource Center**.

Figure 7-3 Resource center



8 Permissions

If you need to assign different permissions to employees in your enterprise to access your VPC Endpoint resources, you can use Identity and Access Management (IAM) to manage fine-grained permissions. IAM provides identity authentication, permissions management, and access control, helping you to securely access your Huawei Cloud resources.

With IAM, you can use your HUAWEI ID to create IAM users and assign permissions to control their access to specific Huawei Cloud resources. For example, if you want website maintenance personnel in your enterprise to use VPC Endpoint resources but do not want them to delete other cloud resources or perform any other high-risk operations, you can create IAM users and grant only permissions to use VPC Endpoint resources.

If your HUAWEI ID does not require individual IAM users for permissions management, you can skip this section.

IAM is a free service. You only pay for the resources in your account.

For more information about IAM, see IAM Service Overview.

VPC Endpoint Permissions

New IAM users do not have any permissions assigned by default. You need to first add them to one or more groups and attach policies or roles to these groups. The users then inherit permissions from the groups and can perform specified operations on cloud services based on the permissions they have been assigned.

VPC Endpoint is a project-level service deployed for specific regions. You need to select a project such as **ap-southeast-2** for which the permissions will be granted. If you select **All projects**, the permissions will be granted for all the projects. When accessing VPC Endpoint, the users need to switch to the authorized region.

Table 8-1 lists all system-defined roles for VPC Endpoint.

Table 8-1 System-defined roles for VPC Endpoint

Role	Description	Typ e	Dependency
VPCEndpoint Administrator	Full permissions for VPC Endpoint	Syst em - defi ned role	This role depends on DNS Administrator, Server Administrator, and VPC Administrator roles in the same project.

Table 8-2 lists the common operations supported by system-defined permissions for VPC Endpoint.

Table 8-2 Common operations supported by system-defined permissions

Operation	VPCEndpoint Administrator
Creating a VPC endpoint	√
Deleting a VPC endpoint	√
Querying a VPC endpoint	✓
Modifying a VPC endpoint	√
Creating a VPC endpoint service	√
Deleting a VPC endpoint service	\checkmark
Querying a VPC endpoint service	\checkmark
Modifying a VPC endpoint service	√

Helpful Links

- IAM Service Overview
- Creating a User and Granting VPC Endpoint Permissions

9 Product Concepts

9.1 VPC Endpoint Services

A VPC endpoint service is a cloud service or a private service that can be accessed through a VPC endpoint.

There are two types of VPC endpoint services: gateway and interface.

- Gateway VPC endpoint services are created only for cloud services.
- Interface VPC endpoint services can be created for both cloud services and your private services. Cloud services are configured as VPC endpoint services by the O&M personnel by default. However, you need to create VPC endpoint services for your private services.

Gateway VPC Endpoint Services

Gateway VPC endpoint services are configured from cloud services by the system. You do not have the permissions to configure such VPC endpoint services but can select them when creating a VPC endpoint.

Supported cloud services vary in different regions. For details, see the services that can be configured on the management console.

You can configure OBS as a gateway VPC endpoint service on the VPC Endpoint console only in the LA-Mexico City1, LA-Sao Paulo1, and LA-Santiago regions.

To access OBS as gateway VPC endpoint services in other regions, you need to search for it by name. To obtain its name, you can **submit a service ticket** or contact the OBS O&M engineers.

VPC Endpoint Service	Categor y	Туре	Example	Description
OBS	Cloud service	Gateway	LA-Mexico City1: com.myhuaweicl oud.na- mexico-1.obs	Select the endpoint service ending with obs if you want to access OBS using its private address. For details, see Configuring a VPC Endpoint for Accessing the Private IP Address of OBS over Private Networks.

Table 9-1 Supported gateway VPC endpoint services

Interface VPC Endpoint Services

Interface VPC endpoint services are mainly configured from:

- Cloud services. You do not have the permissions to configure such VPC endpoint services but can select them when creating a VPC endpoint.
- Your private services.

Supported cloud services vary in different regions. For details, see the services that can be configured on the management console.

Table 9-2 Supported interface VPC endpoint services

VPC Endpoint Service	Categor y	Туре	Example	Description
DNS	Cloud service	Interface	CN-Hong Kong: com.myhuaweiclou d.ap- southeast-1.dns	Select the endpoint service ending with dns if you want to access DNS over private networks.
API Gateway	Cloud service	Interface	CN-Hong Kong: com.myhuaweiclou d.ap- southeast-1.api	Select the endpoint service ending with api if you want to access API Gateway using a VPC endpoint.

VPC Endpoint Service	Categor y	Туре	Example	Description
ELB	Users' private service	Interface	None	Select a load balancer as the backend resource if your services receive high traffic and demand high reliability and disaster recovery (DR) performance.
ECS	Users' private service	Interface	None	VPC endpoint services work as servers.
BMS	Users' private service	Interface	None	VPC endpoint services work as servers.

How to Use VPC Endpoint Services

- Creating a VPC Endpoint Service
- Deleting a VPC Endpoint Service
- Managing Connections of a VPC Endpoint Service
- Managing Whitelist Records of a VPC Endpoint Service
- Managing Port Mappings of a VPC Endpoint Service

9.2 VPC Endpoints

VPC endpoints are secure and private channels for connecting VPCs to VPC endpoint services.

You can buy a VPC endpoint to connect a resource in your VPC to a VPC endpoint service in another VPC of the same region.

A VPC endpoint comes with a VPC endpoint service. VPC endpoints vary depending on the type of the VPC endpoint services that they can access.

- VPC endpoints are classified into interface VPC endpoints and gateway VPC endpoints based on the types of VPC endpoint services they access.
 - Interface VPC endpoints: They access interface VPC endpoint services and are elastic network interfaces that have private IP addresses.
 - Gateway VPC endpoints: They access gateway VPC endpoint services and serve as gateways with routes configured to distribute traffic to the associated gateway VPC endpoint services.
- There are professional and basic VPC endpoints. Different editions have different features.

- Professional: This newly released VPC endpoint type is available in the CN East2, ME-Riyadh, CN East-Qingdao, and AF-Cairo regions. A VPC endpoint supports up to 10 Gbit/s of bandwidth and IPv4 and IPv6 dual stack.
- **Basic**: Basic VPC endpoints refer to previous VPC endpoints.

VPC endpoints for accessing gateway VPC endpoint services can be purchased only in regions LA-Mexico City1, LA-Sao Paulo1, and LA-Santiago.

To access OBS as gateway VPC endpoint services in other regions, you need to search for it by name. To obtain its name, you can **submit a service ticket** or contact the OBS O&M engineers.

How to Use VPC Endpoint

- Buying a VPC Endpoint
- Deleting a VPC Endpoint
- Managing the Policy of a VPC Endpoint
- Configuring Access Control for a VPC Endpoint

9.3 User Permissions

The cloud system provides two types of user permissions by default, user management and resource management.

- User management refers to management of users, user groups, and user group permissions.
- Resource management refers to access control over cloud service resources.

VPC Endpoint provides two types of resources: VPC endpoint services and VPC endpoints, both of which are region-level resources. The required permissions must be assigned to users in the project.

For details about user permissions, see **System Permissions**.

9.4 Region and AZ

Concept

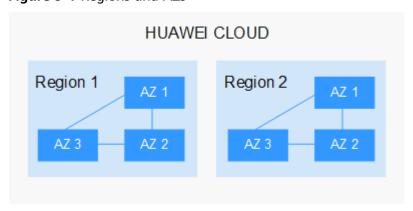
A region and availability zone (AZ) identify the location of a data center. You can create resources in a specific region and AZ.

- Regions are divided based on geographical location and network latency.
 Public services, such as Elastic Cloud Server (ECS), Elastic Volume Service (EVS), Object Storage Service (OBS), Virtual Private Cloud (VPC), Elastic IP (EIP), and Image Management Service (IMS), are shared within the same region. Regions are classified into universal regions and dedicated regions. A universal region provides universal cloud services for common tenants. A dedicated region provides specific services for specific tenants.
- An AZ contains one or more physical data centers. Each AZ has independent cooling, fire extinguishing, moisture-proof, and electricity facilities. Within an

AZ, computing, network, storage, and other resources are logically divided into multiple clusters.

Figure 9-1 shows the relationship between regions and AZs.

Figure 9-1 Regions and AZs



Huawei Cloud provides services in many regions around the world. You can select a region and an AZ based on requirements. For more information, see **Huawei** Cloud Global Regions.

Selecting a Region

When selecting a region, consider the following factors:

Location

It is recommended that you select the closest region for lower network latency and quick access.

- If your target users are in Asia Pacific (excluding the Chinese mainland), select the CN-Hong Kong, AP-Bangkok, or AP-Singapore region.
- If your target users are in Africa, select the **AF-Johannesburg** region.
- If your target users are in Latin America, select the **LA-Santiago** region.

□ NOTE

The LA-Santiago region is located in Chile.

• Resource price

Resource prices may vary in different regions. For details, see **Product Pricing Details**.

Selecting an AZ

When deploying resources, consider your applications' requirements on disaster recovery (DR) and network latency.

- For high DR capability, deploy resources in different AZs within the same region.
- For lower network latency, deploy resources in the same AZ.

Regions and Endpoints

Before you use an API to call resources, specify its region and endpoint. For more details, see **Regions and Endpoints**.

9.5 Project and Enterprise Project

Project

IAM projects are used to group and isolate resources (computing resources, storage resources, and network resources). A project can be a department or a project group. All your resources are managed by project. Multiple projects can be created for one account.

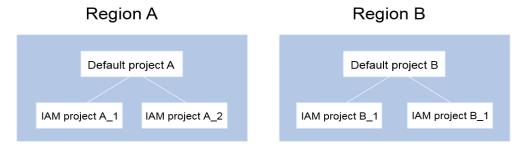
Enterprise Project

Enterprise projects are used to categorize and manage resources. Resources in different regions can belong to one enterprise project. An enterprise can classify resources by department or project group and put relevant resources into one enterprise project for easy management. Resources can be migrated between enterprise projects.

Differences Between Projects and Enterprise Projects

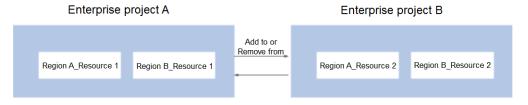
• IAM project

Projects are used to categorize and physically isolate resources in a region. Resources cannot be transferred between IAM projects. They can only be deleted and then provisioned again.



• Enterprise project

Enterprise projects are upgraded based on IAM projects and used to categorize and manage resources of different projects of an enterprise. An enterprise project can contain resources in more than one region, and resources can be transferred between enterprise projects. If you have enabled enterprise management, you cannot create an IAM project and can only manage existing projects. In the future, IAM projects will be replaced by enterprise projects, which are more flexible.



Both projects and enterprise projects can be managed by one or more user groups. Users who manage enterprise projects belong to user groups. After a policy is granted to a user group, users in the group can obtain the permissions defined in the policy in the project or enterprise project.

For details about how to create a project and an enterprise project, and assign permissions, see **Enterprise Management User Guide**.