

**Intelligent EdgeCloud**

# **User Guide**

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# 1 Management Tools

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IEC and Huawei public cloud use the same management console, command line tools, and SDKs. You can use these tools to manage local Huawei Cloud resources in the HomeZones.

1. Huawei Cloud management console is a web-based service management system that provides an intuitive user interface. You can manage your Huawei Cloud accounts and resources through the console.
2. Huawei Cloud Koo Command Line Interface (previously "HCloud CLI") is designed to manage Huawei Cloud service APIs released on API Explorer. With KooCLI, you can call the open APIs of various cloud services to manage and use your resources.
3. Huawei Cloud SDK: For details about the SDK versions provided by cloud services related to IEC, see the official website documentation of each cloud service.

# 2 Operation Guide

The operations of cloud services that can be deployed in IEC HomeZones are basically the same as those of the original cloud services. Cloud services can be classified into three types:

1. Cloud services related to AZs. When purchasing this type of cloud services, you need to select **HomeZones** for **AZ Type**. For details about other configurations, see the operation guide of the corresponding cloud service. For example, Elastic Cloud Server (ECS) and Elastic Volume Service (EVS).
2. Region-level cloud services that are irrelevant to AZs. When purchasing this type of cloud services, you do not need to select **HomeZones**. You only need to perform operations by referring to the operation guide of the corresponding cloud service. For example, Host Security Service (HSS) and Web Application Firewall (WAF).
3. Network cloud services. When using this type of services, you need to select options related to local lines. For details, see the operation guide of the corresponding cloud service. For example, Elastic IP (EIP).

## Cloud Services Related to AZs

When purchasing a cloud service related to AZs, you must set **AZ Type** to **HomeZones**. For details about other operations, see the purchase or creation guide of the corresponding cloud service.

**Table 2-1** Cloud services related to AZs

Service Name	Description	Operation Guide
Elastic Cloud Server (ECS)	Set <b>AZ Type</b> to <b>HomeZones</b> .	<a href="#">Purchasing and Using an ECS</a>
Elastic Volume Service (EVS)	Set <b>AZ Type</b> to <b>HomeZones</b> .	<a href="#">Purchasing an EVS Disk</a>

Service Name	Description	Operation Guide
Cloud Container Engine (CCE)	<ul style="list-style-type: none"> <li>• Purchase a CCE Turbo cluster.</li> <li>• During network configuration, select the VPC corresponding to the parent region. Cluster resources are deployed in the central AZ of the parent region. Select the subnet corresponding to the central AZ.</li> <li>• After a container cluster is created, you need to deploy container nodes and storage resources in the HomeZones.</li> <li>• In the <b>Node Configuration</b> area, select <b>HomeZones</b> for <b>Node Type</b>.</li> <li>• Create a PersistentVolume-Claim (PVC) and select the corresponding <b>HomeZones</b>.</li> </ul> <p>For details about other configurations, see the CCE operation guide.</p>	<a href="#">Buying a CCE Standard/Turbo Cluster</a>

## Cloud Services Irrelevant to AZs

When purchasing region-level cloud services that are irrelevant to AZs, see the operation guide of the corresponding cloud service.

**Table 2-2** Purchasing cloud services irrelevant to AZs

Service Name	Operation Guide
Host Security Service (HSS)	<a href="#">Purchasing and Enabling HSS</a>
Web Application Firewall (WAF)	<a href="#">Buying a Cloud WAF Instance</a>

## Purchasing or Creating Network Cloud Services

**Table 2-3** Operation guide for purchasing network cloud services

Service Name	Description	Operation Guide
Elastic IP (EIP)	<p>When purchasing an EIP, you need to select the local line for <b>EIP Type</b>, that is, the line corresponding to the local city or region. After you select a local line, the network border group of the line is displayed.</p> <p>For details about other configurations, see the EIP operation guide.</p>	<p><a href="#">Assigning an EIP</a></p>
Virtual Private Cloud (VPC)	<p>When creating a VPC, you do not need to select <b>HomeZones</b>. But you need to select <b>HomeZones</b> when creating a subnet.</p> <p>For details about other configurations, see the VPC operation guide.</p>	<p><a href="#">Creating a VPC and Subnet</a></p>
Direct Connect	<p>When purchasing a Direct Connect, set <b>Location</b> to the region where the IEC HomeZones is located.</p> <p>For details about other configurations, see the Direct Connect operation guide.</p>	<p><a href="#">Creating a Connection</a></p>

Service Name	Description	Operation Guide
Cloud Connect	<p>To enable communication between the parent region AZ and IEC HomeZones, you need to create an edge gateway and bind the edge connection of the edge gateway to the global private bandwidth of the cloud connection.</p> <ul style="list-style-type: none"> <li>On the Huawei Cloud console, go to the <b>Cloud Connections</b> page. In the navigation pane on the left, choose <b>Intra-Cloud &gt; Global Connection Bandwidths</b>. Click <b>Buy Global Connection Bandwidth</b> in the upper right corner.</li> <li><b>Bandwidth Type:</b> Select <b>HomeZones</b>.</li> <li>Select an interconnection region as needed.</li> </ul> <p>For details about other configurations, see the Cloud Connect operation guide.</p>	<p><a href="#">Buying a Global Connection Bandwidth</a></p>
Elastic Load Balance (ELB)	<p>When buying a load balancer, select the parent region of the HomeZones for which the permissions has been granted, and select the HomeZones.</p> <p>For details about other configurations, see the ELB operation guide.</p>	<p><a href="#">Creating a Dedicated Load Balancer</a></p>



Service Name	Description	Operation Guide
Virtual Private Network (VPN)	<p>When creating an Enterprise - VPN gateway, if you select <b>HomeZones</b> for <b>AZ</b>, you can only set <b>EIP Type</b> to the local line.</p> <p>For details about other configurations, see the VPN operation guide.</p>	<a href="#">Creating a VPN Gateway</a>

# 3 Edge Gateway

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An edge gateway can connect subnets in the same VPC that is used in both HomeZones and central AZs in parent regions.

You need to buy an edge gateway to transmit data plane data across HomeZones and central AZs in parent regions. IEC provides you with a 1 Mbit/s free bandwidth. You need to create an edge gateway and bind it to the global private bandwidth of a cloud connection to ensure data communication between the central AZ in the parent region and the HomeZones.

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 **CAUTION**

1. Data transmission on the service plane requires the edge gateway and the global private bandwidth bound. Some cloud services also use the edge gateway and bandwidth. So it is necessary for you to create an edge gateway.
  2. Data transmission (including VM images, upgrade packages, and O&M monitoring data) on the basic service management plane uses the management line of the IEC. You do not need to create an edge gateway and a bandwidth for management plane data transmission.
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## Procedure

1. Buy an edge gateway. Edge gateways and global private bandwidths can work together to allow resources from the central and edge subnets, and from different edge subnets in VPCs to communicate with each other through an internal network.
2. Create an edge connection. Edge connections allow subnets from central AZs in parent regions and edge AZs, and from different edge AZs in VPCs to communicate with each other through an internal network. You need to create edge connections for central AZs in parent regions and edge AZs. Only one edge connection needs to be created for the AZs that belong to the same network border group.
3. Bind a global private bandwidth of a cloud connection to an edge connection to enable resources from the central and edge subnets, and from different edge subnets to communicate with each other.

4. You need to purchase a global private bandwidth (regional bandwidth) for the central AZ in the parent region and HomeZones. The global private bandwidth is used for backbone network communication in the cloud.
5. Modify the global private bandwidth of an edge connection.