

Flexus L Instance

Service Overview

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1 What Is Huawei Cloud FlexusL?

Introduction

Huawei Cloud Flexus, the next-generation out-of-the-box cloud service family, is especially designed for small- and medium-sized enterprises (SMEs) and developers. Huawei Cloud Flexus L Instance (FlexusL) is a cloud server product in the Huawei Cloud Flexus family.

FlexusL is a next-generation lightweight cloud server product designed for SMEs and developers. FlexusL provides a wide range of images for you to quickly deploy applications. It is suitable for medium- and light-load scenarios such as website setup, development and testing environments, enterprise applications, website analysis, and audio and video scenarios. It is secure, cost-effective, and easy to use and maintain.

FlexusL is suitable for new users of cloud computing services, individual developers, and small and medium-sized enterprises that want to deploy simple applications on cloud servers.

FlexusL Advantages

- Multiple high-quality application images are preconfigured as templates. They can be used to easily deploy applications.
- A one-stop resource management console makes O&M easy. It can display resource status for you to quickly learn service status, from the global to the region, for easy O&M.
- The Huawei Cloud QingTian architecture with hardware-software synergy and top-flight AI algorithms ensures that there is no freezing and the latency is extremely low when users are playing games and audios or videos.
- You can also purchase service packages to enjoy great performance at lower prices compared with the services you have purchased separately.

Application Scenarios

FlexusL is designed for lightweight and light-load scenarios, such as small websites, web applications, blogs, forums, and cloud development environments.

- E-commerce store management: quickly setting up and managing e-commerce stores and providing stable, high-quality services for customers around the globe

- Website setup: using application templates to quickly build websites, such as enterprise official websites, news, blogs, forums, and e-commerce websites
- Mini game development: quickly rolling out standalone PC games and casual games with stable performance
- Development and testing: running development and testing projects and scheduled and automatic tasks on the cloud
- Cloud-based learning: conducting experiments, writing papers, and studying on the cloud
- Blog and forum setup: creating blogs and forums easily and cost-effectively for individual developers

Resources

A FlexusL instance is a package of resources that include cloud servers, EVS disks, EIPs, CBR vaults, and HSS. They can provide compute, network, storage, image installation, and backup capabilities. Resources that can be packaged in a FlexusL instance are listed in the following table. For details about instance specifications, see [Instance Specifications](#).

Resource	Description
Cloud servers	A cloud server uses the x86 architecture and KVM virtualization. It uses the same underlying hardware resources and delivers the same compute performance as an ECS with the same specifications.
Images	FlexusL provides OS images, application images, and private images for you to choose from.
Networks	<ul style="list-style-type: none">• A fixed elastic IP address (EIP) is assigned to a FlexusL instance and a monthly data package is provided by default.• By default, a fixed private IP address is allocated to a FlexusL instance.
Elastic Volume Service (EVS) disks	EVS provides storage space for FlexusL instances.
Cloud Backup and Recovery (CBR) vaults	You can use CBR to back up all EVS disks (including system and data disks) and restore data from backups.
Host Security Service (HSS)	With intrusion detection, vulnerability management, baseline inspection, and asset management functions, HSS makes it easier to protect the instance against risks.
Cloud Eye	After you purchase a FlexusL instance, Cloud Eye is enabled by default. It can monitor the cloud servers, EVS disks, and CBR vaults packaged in the FlexusL instances.

Billing

A FlexusL instance is actually a package of resources. Resources in the package cannot be disassociated from the FlexusL instance. They have the same lifecycle as the FlexusL instance and are renewed or unsubscribed from together with the package.

NOTE

Resources packaged in a FlexusL instance are those purchased on the FlexusL console. Resources purchased on other service consoles (such as CBR or HSS console) can be disassociated from FlexusL instances and can be deleted or unsubscribed from separately.

FlexusL only supports the yearly/monthly billing mode. Any traffic usage in excess of the package is billed by traffic. For details, see [Overview](#).

Differences Among Cloud Server Products

Huawei Cloud Flexus provides the following cloud server products for you to choose from:

- A FlexusL instance is a package of resources that include cloud servers, EVS disks, EIPs, CBR vaults, and HSS. Resources in the package are created and managed as a whole. FlexusL instances provide various images to help you quickly set up service environments. FlexusL instances are easy to use and are friendly to beginners in cloud computing.
- FlexusX is a next-generation flexible compute cloud server service designed for small- and medium-sized enterprises (SMEs) and developers. FlexusX offers similar functions to ECS. It also supports flexible vCPU/memory ratios and performance mode. Compared with FlexusL, FlexusX offers more public images and more flexible specifications.
- An ECS instance can run high-load applications. It provides multiple billing modes, flavor types, image types, and disk types. You can customize ECS configurations for different service scenarios.

For details among their differences, see [What Are the Differences Among FlexusL, FlexusX, and ECS?](#)

Access Modes

You can access FlexusL instances using a web-based management console.

If you have signed up for Huawei Cloud, log in to the management console, choose **Compute** > **Huawei Cloud Flexus** and click **Flexus L Instance** to access the FlexusL console.

If you have not signed up for Huawei Cloud, sign up for a HUAWEI ID. For details, see [Registering a HUAWEI ID and Enabling Huawei Cloud Services](#).

2 Functions

FlexusL provides the functions listed below. You can check if a certain function is available in a region on the console.

FlexusL Instance Purchase

FlexusL provides a package of vCPUs, memory, system disk, peak bandwidth, and data package. When purchasing a FlexusL instance, you can determine whether to purchase data disks, HSS, and CBR vaults along with the instance.

For details, see [Purchasing a FlexusL Instance](#).

FlexusL Instance Login

After a FlexusL instance is created, you can log in to the cloud server and deploy websites or applications on it. FlexusL instances support multiple login modes. You can select a login mode as required.

For details, see [Login Modes](#).

Password Reset

You can reset the password of a FlexusL instance as needed.

- FlexusL instances do not have initial passwords. If you use a FlexusL instance for the first time, reset the password offline.
- If the password is lost or has expired, you can reset the password online or offline.

For details, see [Resetting the Password for a FlexusL Instance](#).

OS Change

If the OS of a FlexusL instance is abnormal, you can reinstall the OS to restore it.

If the OS of a FlexusL instance cannot meet your service requirements, you can change it to another OS version or type.

For details, see [Managing OSs of FlexusL Instances](#).

Specification Modification

If the vCPUs, memory, system disk capacity, peak bandwidth, or data package of a FlexusL instance cannot meet your service requirements, you can upgrade the instance specifications.

For details, see [Modifying the Specifications of a FlexusL Instance](#).

Image Management

FlexusL provides OS images, application images, and private images for you to choose from. You can use a private image to quickly create a FlexusL instance with the same configuration as the image, or use a private image to change the OS.

For details, see [Image Overview](#).

EVS Disk Management

FlexusL instances include system and data disks. When a cloud server is created, a system disk is automatically created and attached. You do not need to purchase a system disk separately. If you have additional storage requirements, you can add one data disk to a FlexusL instance. If the disk capacity is insufficient, you can expand it.

For details, see [EVS Disk Overview](#).

Security Group Management

A security group is a collection of access control rules for cloud resources, such as cloud servers, containers, and databases, that have the same security protection requirements and that are mutually trusted. After a security group is created, you can configure access rules that will apply to all cloud resources added to this security group.

When you create a FlexusL instance, the system automatically creates a default security group (sg-default-smb) and associates it with the instance. You can also create a security group based on service requirements and associate it with the instance.

For details, see [Security Group Overview](#).

Host Security

HSS is designed to improve the overall security for cloud servers. It helps you identify and manage the assets on your servers, eliminate risks, and defend against intrusions and web page tampering. There are also advanced protection and security operations functions available to help you easily detect and handle threats.

For details, see [Configuring HSS for a FlexusL Instance](#).

Backup Management

[Cloud Backup and Recovery \(CBR\)](#) enables you to back up cloud servers and disks with ease. In the event of a virus attack, accidental deletion, or software or

hardware fault, you can restore data to any point in the past when the data was backed up. CBR protects your services by ensuring the security and consistency of your data.

For details, see [FlexusL Cloud Backup Overview](#).

Domain Name Management

To enable a website or web application to be directly accessed using a domain name over the Internet, you need to register a domain name, license the website or web application, and configure DNS. You can add and resolve domain names for FlexusL instances on the FlexusL console.

For details, see [Adding and Resolving a Domain Name for a FlexusL Instance](#).

Monitoring

Monitoring is important to ensure FlexusL instance performance, reliability, and availability. You can use Cloud Eye to monitor FlexusL instances and know their statuses. Cloud Eye can monitor a range of metrics, such as the CPU usage, disk usage, and bandwidth of FlexusL instances.

For details, see [Monitoring Overview](#).

3 Instance Specifications

This section describes the resources contained in a FlexusL service package.

Instance Specifications

NOTE

A cloud server packaged in a FlexusL instance uses the x86 architecture, KVM virtualization, and the same underlying hardware resources as an ECS. It delivers the same compute performance as an ECS with the same vCPUs and memory.

You can associate EVS disks, HSS, or CBR vaults with your FlexusL instance as needed. After a FlexusL instance is created, a fixed elastic IP address (EIP) is assigned by default. Multiple instance specifications are available. For details, see [Table 3-1](#).

Table 3-1 Instance specifications

vCPUs Memory	System Disk Capacity Type	Peak Bandwidth Data Package	(Optional) Associated Service Resource
2 vCPUs 0.5 GiB	20 GiB General Purpose SSD	30 Mbit/s 1,024 GB	The following service resources can be purchased together with FlexusL instances: <ul style="list-style-type: none">• Data disk: General Purpose SSD V2 or High I/O Custom capacity• HSS: Basic edition• CBR: Server backup Custom vault capacity
2 vCPUs 1 GiB	40 GiB General Purpose SSD	30 Mbit/s 2,084 GB	
2 vCPUs 2 GiB	60 GiB General Purpose SSD	30 Mbit/s 3,072 GB	
2 vCPUs 4 GiB	40 GiB General Purpose SSD	40 Mbit/s 4,096 GB	
2 vCPUs 4 GiB	80 GiB General Purpose SSD	30 Mbit/s 4,096 GB	
2 vCPUs 8 GiB	160 GiB General Purpose SSD	30 Mbit/s 5,120 GB	

vCPUs Memory	System Disk Capacity Type	Peak Bandwidth Data Package	(Optional) Associated Service Resource
4 vCPUs 8 GiB	240 GiB General Purpose SSD	30 Mbit/s 6,144 GB	
4 vCPUs 16 GiB	320 GiB General Purpose SSD	30 Mbit/s 7,168 GB	

NOTE

- The specifications supported by each region are slightly different. For details, see the specifications displayed on the console.
- For details about the peak bandwidth and data packages, see [Peak Bandwidth](#) and [Data Package](#), respectively.

Peak Bandwidth

The peak bandwidth in a FlexusL package is the peak outbound bandwidth of the public network, that is, the maximum bandwidth for a FlexusL instance to access the Internet.

NOTE

- The peak bandwidth is not used as a service commitment and is only used as a reference for the bandwidth upper limit. If resource contention occurs, the peak bandwidth may be limited. The peak bandwidth cannot be used in scenarios that require high public network quality. If you require high public network quality, purchase [EC2s](#) or [FlexusX instances](#) billed based on the fixed public network bandwidth.
- Inbound peak bandwidth
 - If the outbound peak bandwidth of a package is not greater than 10 Mbit/s, the inbound peak bandwidth is 10 Mbit/s.
 - If the outbound peak bandwidth of a package is greater than 10 Mbit/s, the inbound peak bandwidth is the same as the outbound peak bandwidth.

Data Package

Rules for using data packages provided by FlexusL are as follows:

- A FlexusL instance provides a monthly data package. The traffic quota included in the data package is reset each month. Any unused portion of the data package cannot be rolled over to the next month.
For example, if you purchase a FlexusL instance for three months at 10:00:00 on June 5, the data package for the first month will be valid from 10:00:00 on June 5 to 00:00:00 on July 6. The data package for the second month will be valid from 00:00:00 on July 6 to 00:00:00 on August 6. The data package for the final month will be valid from 00:00:00 on August 6 to 00:00:00 on September 6.
- Only outbound traffic (originating from your server) will be billed. FlexusL instance data packages indicate the **outbound** data packages.

- Service traffic is preferentially deducted from the data package. Any traffic usage in excess of the package is billed by traffic. The excess traffic is billed based on a tiered pricing model, and the unit price varies depending on regions. You can purchase shared data packages of the **dynamic BGP** type to save costs. For details, see [Buying a Shared Data Package](#).
- After you unsubscribe from or stop a FlexusL instance, no excess traffic will be generated.

4 Billing

4.1 Overview

This section describes the sales mode, billing modes, billing items, package pricing, expiration or arrears, renewal, and unsubscription of FlexusL.

Sales Mode

A FlexusL instance is actually a package of resources. Resources in the package cannot be disassociated from the FlexusL instance. They have the same lifecycle as the FlexusL instance and are renewed or unsubscribed from together with the package.

NOTE

Resources packaged in a FlexusL instance are those purchased on the FlexusL console. Resources purchased on other service consoles (such as CBR or HSS console) can be disassociated from FlexusL instances and can be deleted or unsubscribed from separately.

Billing Mode

FlexusL instances only support the yearly/monthly billing mode. Yearly/Monthly is a prepaid mode. You pay upfront for the amount of time you expect to use the FlexusL for. You will need to make sure you have a top-up account with a sufficient balance or have a valid payment method configured first.

Billing Items

NOTE

The billing items marked with asterisks (*) are mandatory.

Billing Item	Description	Billing Mode	Price
* Instance	<p>Compute, storage, and networking capabilities vary by instance specifications. You can choose desired specifications based on your service requirements.</p> <p>Billing factors: vCPU/memory, system disk, and data package</p> <p>NOTE Only outbound traffic (originating from your server) will be billed.</p>	Yearly/ Monthly	Monthly package price × Required duration
* Image	<p>Images supported by FlexusL instances are free of charge.</p> <p>Billing factor: image</p>	-	Free
Data disk	<p>If you have additional storage requirements, you can purchase data disks.</p> <p>Billing factor: data disk capacity</p>	Yearly/ Monthly	EVS disk unit price × Required duration
Host Security Service (HSS)	<p>You can enable HSS to protect your FlexusL instances.</p> <p>Billing factor: HSS basic edition</p>	Yearly/ Monthly	HSS unit price × Required duration
CBR	<p>You can purchase a backup vault to store backups of your FlexusL instance.</p> <p>Billing factor: vault capacity</p>	Yearly/ Monthly	Vault capacity unit price × Required duration
Cloud Eye	<p>Cloud Eye basic functions, such as viewing dashboards, creating alarm rules, and adding monitoring items, are free of charge. Cloud Eye may interconnect with other cloud services to provide you with value-added services such as monitoring data file dump and alarm notification. These value-added services may incur extra fees, which are settled by services that provide such functions.</p>	-	Basic functions are free of charge. Value-added services may incur extra fees.

Billing Item	Description	Billing Mode	Price
Excess traffic (optional)	Service traffic is preferentially deducted from the data package. Any traffic usage in excess of the package is billed by traffic. The excess traffic is billed based on a tiered pricing model, and the unit price varies in different regions.	Pay-per-use	Unit price of traffic × Excess traffic volume For details about the unit price of traffic, see Price Calculator . The routing type is dynamic BGP.

Expiration and Arrears

- Yearly/Monthly FlexusL instances will expire after their validity periods end.
- The pay-per-use resources are settled periodically by referring to [Bill Run for Pay-per-Use Resources](#). If you do not have a valid payment method configured or your account balance is insufficient, your account will fall into arrears.

Pay-per-use resources involved in a FlexusL instance are as follows:

- Excess traffic. A FlexusL instance provides a fixed data package which service traffic can be deducted from by default. Any traffic usage in excess of the package is billed by traffic (on a pay-per-use basis).
- Other pay-per-use resources associated with the FlexusL instance.

The following describes the impacts if your FlexusL instances expire or if your account is in arrears.

Phase	Impact
Grace period	If your yearly/monthly FlexusL resources are not renewed upon expiration or the pay-per-use resources are in arrears, Huawei Cloud provides a grace period for you to renew or pay for the resources. Resources can be used within the grace period.
Retention period	If you do not renew the yearly/monthly FlexusL instance resources or pay off the arrears for the pay-per-use resources after the grace period expires, the resources will enter the retention period. During the retention period, the resource cannot be used but is retained.

After a FlexusL instance enters a grace period or retention period, Huawei Cloud will notify you of this by email or text message. If you do not complete the renewal or pay off the arrears before the retention period ends, your instance will be released. To avoid impact on your services, [renew your subscription or top up your account](#) in a timely manner.

Renewal and Repayment

- Renewal

FlexusL instances cannot be used after they expire. If you want to continue using them, renew them before the [retention period](#) ends. Otherwise, your resources will be released and cannot be recovered.

FlexusL is provided as a package. Resources in the package are renewed together. The pricing for renewal is the same as that of a new purchase.

- Repayment

If your account is in arrears, your resources cannot be used properly. Pay off the expenditures generated by the pay-per-use resources before [the retention period](#) expires.

For details about repayment, see [Making Payments \(Postpaid Direct Customers\)](#).

Unsubscription

A FlexusL instance is actually a package of resources. Resources in the package are unsubscribed together. If you unsubscribe from a FlexusL instance, all resources including the EVS disks, cloud backup vault, HSS, and EIP associated with the instance will be released and data cannot be recovered.

Unsubscription includes unsubscribing from resources and unsubscribing from renewal periods. After the unsubscription is successful, you will get a refund.

- Unsubscribing from resources: You can unsubscribe from FlexusL instances (including the renewal period) that are no longer needed. For details, see [Unsubscribing from Resources](#).
- Unsubscribing from a renewal period: If you have renewed a FlexusL instance, you can unsubscribe from the renewal period. When you unsubscribe from a renewal period, you can only unsubscribe from the renewal period that has not yet taken effect. To unsubscribe from the renewal period that has taken effect, you can only unsubscribe from the FlexusL instance. For details, see [Unsubscribing from a Renewal Period](#).

4.2 Renewing a FlexusL Instance

Scenarios

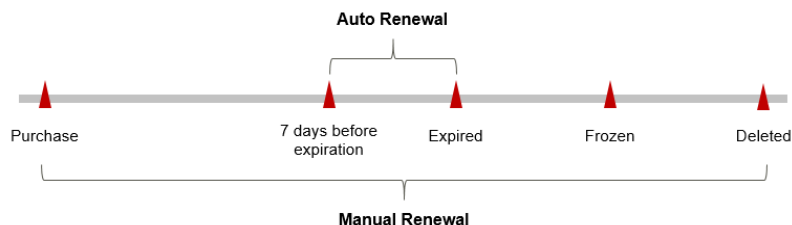
If a yearly/monthly FlexusL instance is about to expire but you want to continue using it, you need to renew the FlexusL subscription within a specified period, or it will be automatically released, and data will be lost and cannot be restored.

Only yearly/monthly FlexusL subscriptions can be renewed. The traffic usage in excess of the data package does not need to be renewed. Ensure that your

account has a valid payment method configured or a top-up account with a sufficient balance.

You can select a method to renew a yearly/monthly FlexusL instance based on the phase it is currently in. For details, see [Figure 4-1](#).

Figure 4-1 Selecting a renewal method based on the FlexusL instance's current phase



- A FlexusL instance is in the **Running** state after it is provisioned.
- When the FlexusL subscription expires, the status will change from **Running** to **Expired**.
- If an expired FlexusL instance is not renewed, it enters a grace period. If it is not renewed by the time the grace period expires, it will be frozen and enter a retention period.
- If you do not renew the subscription before the retention period expires, the FlexusL instance will be automatically released.


Notes

- If a resource is renewed when it is in a **grace period or retention period**, the renewal for this resource starts from the time when the resource expired instead of the current time.
- A FlexusL instance is actually a package of resources. Resources in the package can only be renewed together, not separately.
- Unsubscribed or released resources are not renewable.
- Orders being processed are not renewable.

Manually Renewing FlexusL Instances

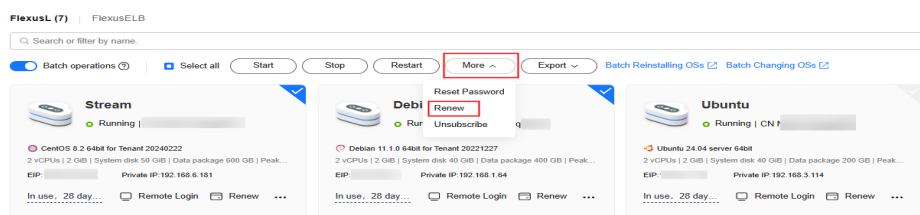
You can renew a yearly/monthly FlexusL instance on the console anytime before it is automatically deleted. FlexusL supports batch renewal.

Batch Renewing FlexusL Instances on the Console

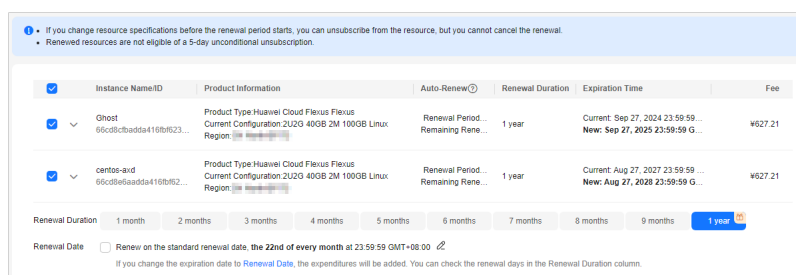
1. Log in to the [FlexusL console](#).
By default, FlexusL instances are displayed in the card view. You can also click  to switch to the list view.
2. In the card view: enable **Batch operations**, select the FlexusL instances to be renewed, and choose **More > Renew**.
In the list view: select the FlexusL instances to be renewed and choose **More > Renew** above the instance list.

You can also use this method to renew just one FlexusL instance.

Figure 4-2 Batch renewal




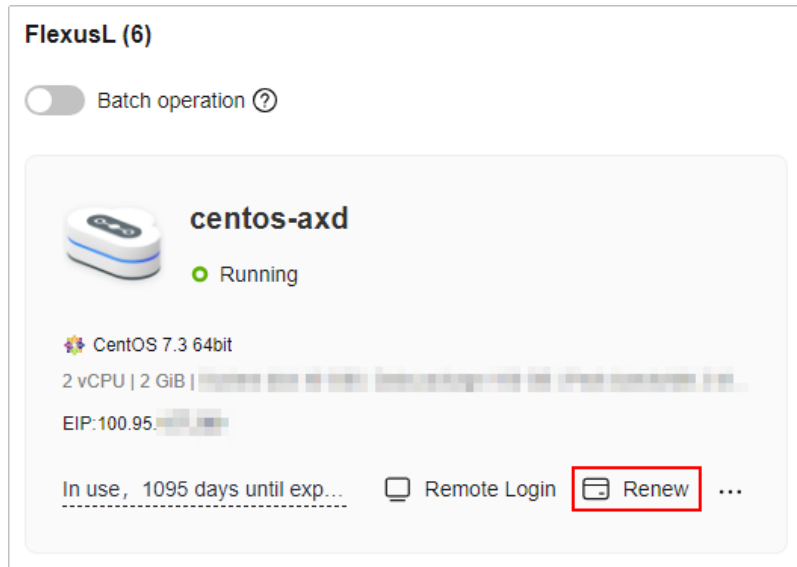
3. View the FlexusL instances to be renewed and click **OK**.
4. Set the renewal configurations, confirm the expected expiration date and price and click **Pay**.



- Select a renewal duration.
 - Select **Renew on the standard renewal date**. For details, see [Setting the Same Renewal Day for Yearly/Monthly Resources](#).
5. Select a payment method and complete the payment.
Once the order is paid for, the renewal is complete.

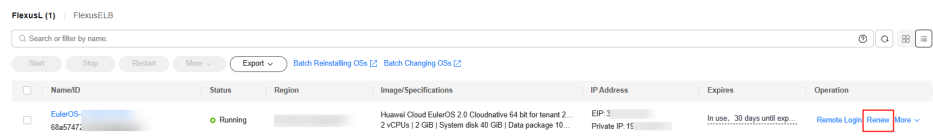
Renewing a Single FlexusL Instance on the Console

1. Log in to the [FlexusL console](#).
By default, FlexusL instances are displayed in the card view. You can also click  to switch to the list view.
2. Renew a FlexusL instance in the following ways:
Cards
 - In the card view, click **Renew** on the target resource card.



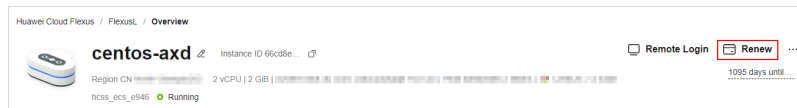
List

- In the list view, locate the target FlexusL instance and click **Renew** in the **Operation** column.

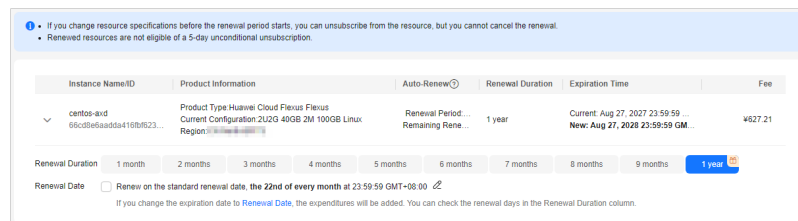


Overview

- Click the target resource card or resource name. In the upper right corner of the displayed page, click **Renew**.




3. Set the renewal configurations, confirm the expected expiration date and price and click **Pay**.



- Select a renewal duration.
 - Select **Renew on the standard renewal date**. For details, see [Setting the Same Renewal Day for Yearly/Monthly Resources](#).
4. Select a payment method and complete the payment.
Once the order is paid for, the renewal is complete.

Renewing FlexusL Instances in Billing Center

1. Log in to the [FlexusL console](#).

By default, FlexusL instances are displayed in the card view. You can also click  to switch to the list view.

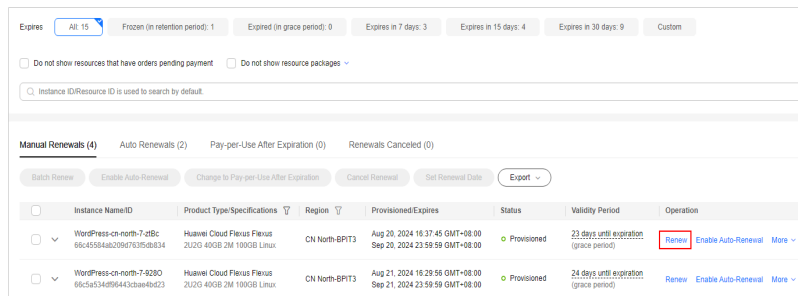
- In the upper-right corner of the console, choose **Billing** > **Renewal**.
- Set the search criteria.

On the **Manual Renewals**, **Auto Renewals**, **Pay-per-Use After Expiration**, and **Renewals Canceled** tabs, you can view the resources to be renewed.

You can move all resources that need to be manually renewed to the **Manual Renewals** tab. For details, see [Enabling Manual Renewal](#).

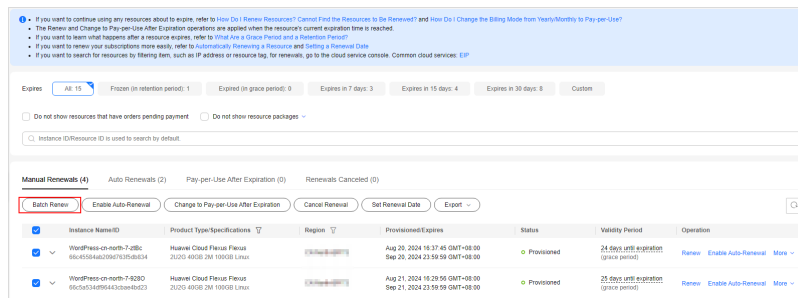
- Manually renew resources.
 - Individual renewal: Click **Renew** in the **Operation** column for the desired resource.

Figure 4-3 Individual renewal

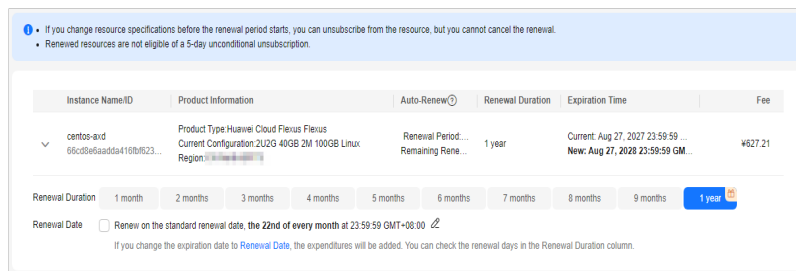


- Batch renewal: Select the desired resources and click **Batch Renew** in the upper left corner.

Figure 4-4 Batch renewal



- Set the renewal configurations, confirm the expected expiration date and price and click **Pay**.



- Select a renewal duration.
- Select **Renew on the standard renewal date**. For details, see [Setting the Same Renewal Day for Yearly/Monthly Resources](#).

6. Select a payment method and make your payment. Once the order is paid for, the renewal is complete.

Auto-renewing a FlexusL Instance

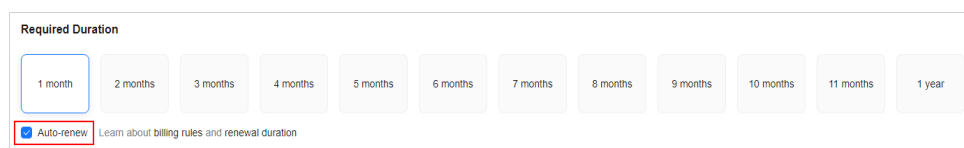
You can enable auto-renew to automatically renew a FlexusL instance before it expires. This prevents resources from being deleted in case you forget to renew a subscription.

Enabling Auto-Renew on the Purchase Page



You can enable auto-renew for your FlexusL instance on the purchase page, as shown in [Figure 4-5](#). For details about how to purchase a FlexusL instance, see [Purchasing a FlexusL Instance](#).

If you select **Auto renew**, monthly subscription is auto-renewed for one month every time and yearly subscription is auto-renewed for one year every time. For example, if you set **Required Duration** to **3 months** and enable auto-renew, your subscription will be automatically renewed for one month before it expires. For more information about auto-renewal rules, see [Auto-Renewal Rules](#).

Figure 4-5 Enabling auto-renew



Enabling Auto-Renew for an Existing FlexusL Instance

1. Log in to the [FlexusL console](#).
By default, FlexusL instances are displayed in the card view. You can also click  to switch to the list view.
2. Enable auto-renew in either of the following ways:
 - a. Locate the target resource card and choose  > **Enable Auto-Renew**.
 - b. Click the target instance name. On the displayed page, choose **Enable Auto-Renew** in the upper right corner.

NOTE

After auto-renew is enabled, you can choose **Modify Auto-Renew** to modify the auto-renewal rules.

3. Select a renewal period, specify the auto-renewal times, and click **OK**.
If auto-renew is enabled on the **Renewals** page, the auto-renew period is subject to the selected renewal period and auto-renew times. For example, if you set **New Auto-Renew Period** to **3 months** and **Auto-renewals** to **Unlimited**, your subscription will be automatically renewed for three months before it expires. For more information about auto-renewal rules, see [Auto-Renewal Rules](#).

NOTE

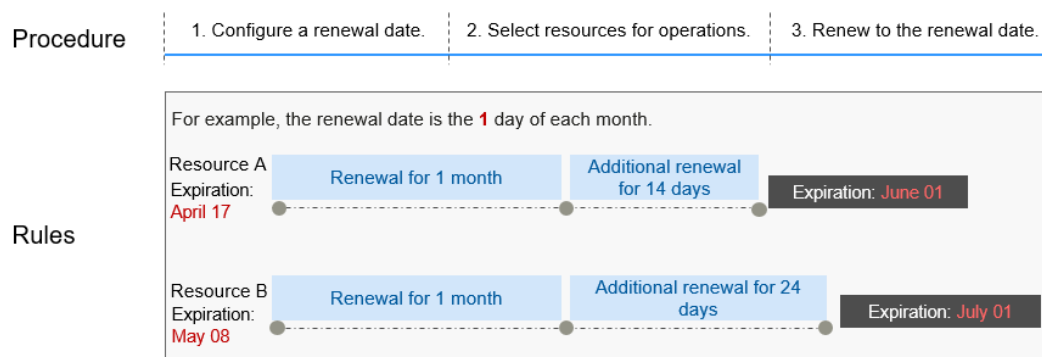
- When the number of times a resource has been auto-renewed reaches the preset value, the resource will be automatically changed to manual renewal upon expiration.
- Manual renewal does not affect the number of remaining auto-renew times.

Setting the Same Renewal Day for Yearly/Monthly Resources

If the FlexusL instances have different expiry dates, you can set the same renewal day to make it easier to manage renewals.

In [Figure 4-6](#), a user sets the same renewal day for two resources that will expire at different dates.

Figure 4-6 Setting the same renewal day for resources with different expiry dates



For details, see [Setting a Renewal Date](#).

4.3 Unsubscribing from FlexusL Instances

Scenarios

If you no longer need a FlexusL instance, you can unsubscribe from it at any time.

A FlexusL instance is actually a package of resources. Resources in the package are unsubscribed together. If you unsubscribe from a FlexusL instance, all resources including the EVS disks, cloud backup vault, HSS, and EIP associated with the instance will be released and data cannot be recovered.

Unsubscription includes unsubscribing from resources and unsubscribing from renewal periods. After the unsubscription is successful, you will get a refund.

- Unsubscribing from resources: You can unsubscribe from FlexusL instances (including the renewal period) that are no longer needed. For details, see [Unsubscribing from Resources](#).
- Unsubscribing from a renewal period: If you have renewed a FlexusL instance, you can unsubscribe from the renewal period. When you unsubscribe from a renewal period, you can only unsubscribe from the renewal period that has not yet taken effect. To unsubscribe from the renewal period that has taken effect, you can only unsubscribe from the FlexusL instance. For details, see [Unsubscribing from a Renewal Period](#).

Notes

- Before unsubscription, ensure that data on the cloud resources to be unsubscribed from has been backed up or migrated. After unsubscription, resources will be deleted and data cannot be recovered. Exercise caution during unsubscription.
- If an order is paid using the Huawei Cloud account balance or a third-party online payment platform (such as Alipay, WeChat, or e-banking), the refund will be returned to your Huawei Cloud account balance.

Constraints

- Newly purchased FlexusL instances cannot be unsubscribed from immediately. Try later.
- FlexusL instances that are in the **grace period or retention period** due to arrears cannot be unsubscribed from. To unsubscribe from such instances, pay off the arrears first. If you still do not pay off the arrears after the retention period has ended, all of your resources will be released.
- FlexusL instances that are frozen due to illegal issues cannot be unsubscribed from.

For more details, see [Unsubscription Not Allowed](#).

Procedure

You can unsubscribe from just one FlexusL instance or batch unsubscribe from FlexusL instances.

Batch Unsubscribing from FlexusL Instances


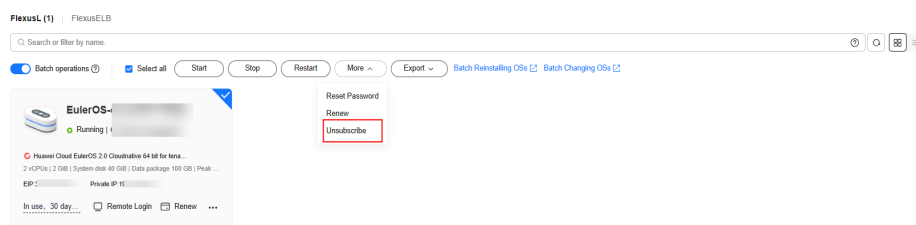
1. Log in to the [FlexusL console](#).
By default, FlexusL instances are displayed in the card view. You can also click  to switch to the list view.
2. Enable **Batch operations**, select the FlexusL instances to be unsubscribed from and choose **More > Unsubscribe**.
You can also use this method to unsubscribe just one FlexusL instance.

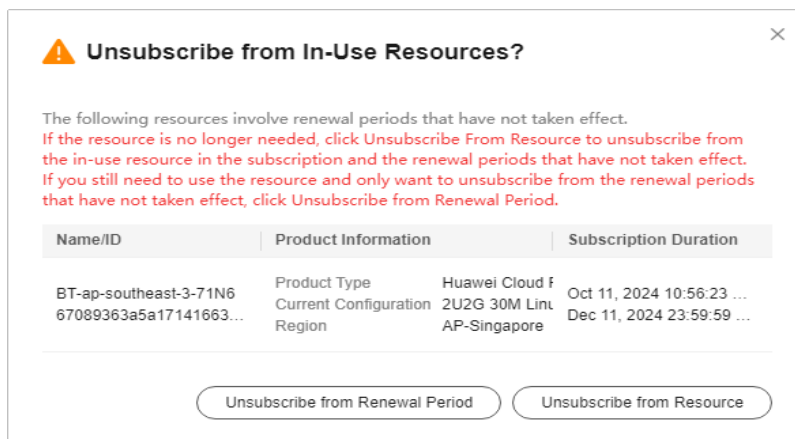
Figure 4-7 Batch unsubscription



3. View the FlexusL instances to be unsubscribed and click **OK**.
4. (Optional) Unsubscribe from a resource or a renewal period.
You can unsubscribe from a renewal period only when your FlexusL instances have a renewal period.
 - Unsubscribing from resources: You can unsubscribe from FlexusL instances (including the renewal period) that are no longer needed. A

FlexusL instance is actually a package of resources. If you unsubscribe from a FlexusL instance, all resources including the EVS disks, cloud backup vault, HSS, and EIP associated with the instance will be released and data cannot be recovered.

- Unsubscribing from a renewal period: If you have renewed a FlexusL instance, you can unsubscribe from the renewal period. When you unsubscribe from a renewal period, you can only unsubscribe from the renewal period that has not yet taken effect. To unsubscribe from the renewal period that has taken effect, you can only unsubscribe from the FlexusL instance.



5. Confirm the unsubscription details and click **Confirm**.

Unsubscribing from a Single FlexusL Instance

1. Log in to the [FlexusL console](#).

By default, FlexusL instances are displayed in the card view. You can also click

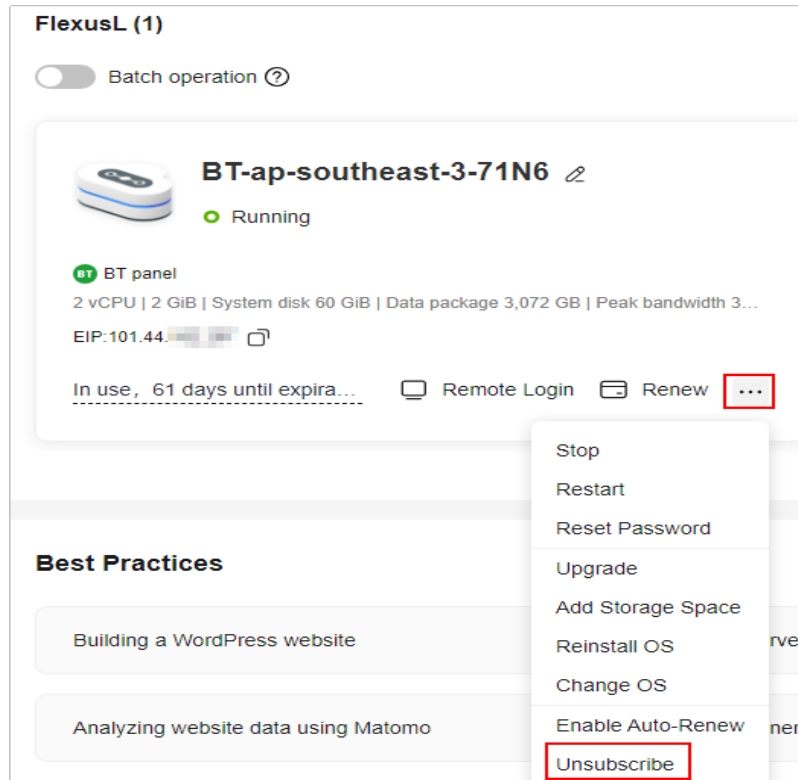


to switch to the list view.

2. Unsubscribe from a FlexusL instance using any of the following methods.

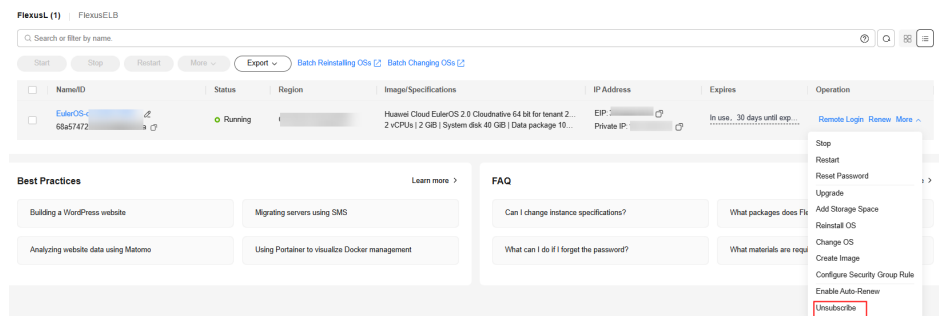
Cards

- In the card view, choose **...** > **Unsubscribe** on the target resource card.



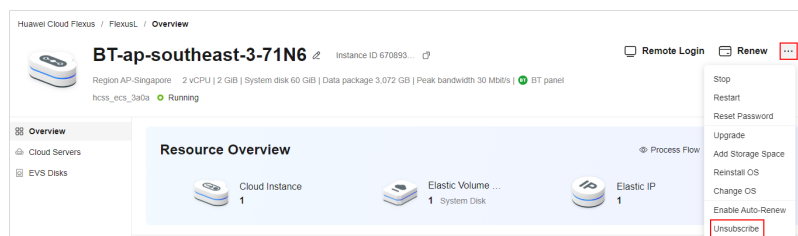
List

- In the list view, locate the target FlexusL instance and choose **More > Unsubscribe** in the **Operation** column.



Overview

- Click the target resource card or resource name. In the upper right corner of the displayed page, choose ***** > Unsubscribe**.



- (Optional) Unsubscribe from a resource or a renewal period.
You can unsubscribe from a renewal period only when your FlexusL instances have a renewal period.

- Unsubscribing from resources: You can unsubscribe from FlexusL instances (including the renewal period) that are no longer needed. A FlexusL instance is actually a package of resources. If you unsubscribe from a FlexusL instance, all resources including the EVS disks, cloud backup vault, HSS, and EIP associated with the instance will be released and data cannot be recovered.
- Unsubscribing from a renewal period: If you have renewed a FlexusL instance, you can unsubscribe from the renewal period. When you unsubscribe from a renewal period, you can only unsubscribe from the renewal period that has not yet taken effect. To unsubscribe from the renewal period that has taken effect, you can only unsubscribe from the FlexusL instance.

⚠ Unsubscribe from In-Use Resources? ✕

The following resources involve renewal periods that have not taken effect.
 If the resource is no longer needed, click **Unsubscribe From Resource** to unsubscribe from the in-use resource in the subscription and the renewal periods that have not taken effect.
 If you still need to use the resource and only want to unsubscribe from the renewal periods that have not taken effect, click **Unsubscribe from Renewal Period**.

Name/ID	Product Information	Subscription Duration
BT-ap-southeast-3-71N6 67089363a5a17141663...	Product Type	Huawei Cloud f
	Current Configuration	2U2G 30M Lin
	Region	AP-Singapore
		Oct 11, 2024 10:56:23 ...
		Dec 11, 2024 23:59:59 ...

Unsubscribe from Renewal Period
Unsubscribe from Resource

4. Confirm the unsubscription details and click **Confirm**.

5 Security

5.1 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 5-1 Downloading compliance certificates

Download Compliance Certificates

Please enter a keyword to search

- BS 10012:2017**
BS 10012 provides a best practice framework for a personal information management system that is aligned to the principles of the EU GDPR. It outlines the core requirements organizations need to consider when collecting, storing, processing, retaining or disposing of personal records related to individuals.
- ENS**
Mandatory law for companies in the public sector and their technology suppliers
- Singapore Multi Tier Cloud Security (MTCS) Level 3**
The MTCS standard was developed under the Singapore Information Technology Standards Committee (ITSC). This standard requires cloud service providers to adopt well-rounded risk management and security practices in cloud computing. The HUAWEI CLOUD Singapore region has obtained the Level 3 (highest) certification of MTCS.
- Trusted Partner Network (TPN)**
The Trusted Partner Network (TPN) is a global, industry-wide media and entertainment content security initiative and community network, wholly owned by the Motion Picture Association. TPN is committed to raising content security awareness and standards and building a more secure future for content partners. TPN can help identify vulnerabilities, increase security capabilities, and efficiently communicate security status to customers.
- ISO 27001:2022**
ISO 27001 is a widely accepted international standard that specifies requirements for management of information security systems. Centered on risk management, this standard ensures continuous operation of such systems by regularly assessing risks and applying appropriate controls.
- ISO 27017:2015**
ISO 27017 is an international certification for cloud computing information security. It indicates that HUAWEI CLOUD's information security management has become an international best practice.

Resource Center

Huawei Cloud also provides the following resources to help users meet compliance requirements. For details, see [Resource Center](#).

Figure 5-2 Resource center

Resource Center

White Papers

- Privacy Compliance White Papers
- Industry Regulation Compliance White Papers
- Guidelines and Best Practices

- Compliance with Argentina PDPL**
Base on the compliance requirements of Argentina PDPL and Resolution 47/2018, the whitepaper shares Huawei Cloud's privacy protection experience and practices and the measures that help customer meet the compliance requirements of Argentina PDPL and Resolution
- Compliance with Brazil LGPD**
Huawei Cloud shares the experience and practice in privacy protection in compliance with Brazil's LGPD and describes how to help customers meet Brazil's LGPD compliance requirements.
- Compliance with Chile PDPL**
Huawei Cloud shares the experience and practices regarding privacy protection when complying with PDPL from the Republic of Chile, as well as describe how to help customers meet PDPL compliance requirements in the Republic of Chile.
- Compliance with PDPO of the HK**
Huawei Cloud shares the experience and practices regarding privacy protection when complying with PDPO from Hong Kong SAR, China, as well as describe how to help customers meet PDPO compliance requirements in Hong Kong SAR, China.

6 Permissions

If you need to grant your enterprise personnel permission to access your FlexusL resources, use Identity and Access Management (IAM). IAM provides identity authentication, fine-grained permissions management, and access control. IAM helps you securely access your cloud resources.

With IAM, you can create IAM users and grant them permissions to access only specific resources. For example, if you want some software developers in your enterprise to be able to use FlexusL resources but do not want them to be able to delete FlexusL or perform any other high-risk operations, you can create IAM users and grant permission to use FlexusL but not permission to delete them.

If your account does not need individual IAM users for permissions management, skip this section.

IAM can be used free of charge. You pay only for the resources in your account. For more information about IAM, see [What Is IAM?](#)

FlexusL Instance Permissions

New IAM users do not have any permissions assigned by default. You need to first add them to one or more groups and then 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.

FlexusL is a global service. When you set the authorization scope to **Global services**, users have permission to access FlexusL resources in all regions.

[Table 6-1](#) lists the system-defined policies of FlexusL instances.

Table 6-1 System-defined policies for FlexusL instances

Policy Name	Description	Policy Content
CORS FullAccess	Administrator permissions. Users with these permissions can perform all operations on resources packaged in FlexusL instances, including creating, deleting, querying, and modifying service resources.	CORS FullAccess Policy Content
CORS ReadOnlyAccess	Common user permissions. Users with these permissions can only perform query operations.	CORS ReadOnlyAccess Policy Content

Table 6-2 lists the common operations supported by system-defined permissions for FlexusL.

Table 6-2 Common operations supported by system-defined permissions

Operation	CORS FullAccess	CORS ReadOnlyAccess
Creation	√	x
Remote login to FlexusL instances on the management console	√	x
Resource card checking	√	√
Details query	√	√
Modification	√	x
Start	√	x
Stop	√	x
Restart	√	x
Unsubscription	√	x
OS reinstallation	√	x
OS change	√	x
Specification modification	√	x

Reference

- [What Is IAM?](#)

- For details about how to create a user group or user and grant FlexusL permissions, see [Granting Permissions to Use FlexusL Instances Through IAM](#).

CORS FullAccess Policy Content

```
{
  "Version": "1.1",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "cors:*"
      ]
    }
  ]
}
```

CORS ReadOnlyAccess Policy Content

```
{
  "Version": "1.1",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "cors:*get",
        "cors:*list"
      ]
    }
  ]
}
```

7 Constraints

This section describes the constraints on using FlexusL.

Package Management

Table 7-1 FlexusL package management

Item	Description
Purchase	After a FlexusL instance is created, its region cannot be changed. Exercise caution when selecting a region.
Renewal/ Unsubscription	A FlexusL instance is actually a package of resources. Resources in the package are unsubscribed and renewed together. The EVS disk, backup vault, HSS, and data package included in the package cannot be unsubscribed separately. NOTE Resources packaged in a FlexusL instance are those purchased on the FlexusL console. Resources purchased on other service consoles (such as CBR or HSS console) can be disassociated from FlexusL instances and can be deleted or unsubscribed from separately.
Resource configuration	A FlexusL instance package can have only one data disk, one CBR vault, and one HSS.
Package expansion	Currently, only data disks can be separately purchased and added to FlexusL instances. The system disk, CBR vaults, HSS, and data packages cannot be separately purchased and added to the package.
Package reduction	The EVS disk, CBR vault, HSS, and data package included in a FlexusL instance package cannot be disassociated or unsubscribed separately.
Specification modification	The capacity of the data disk and CBR vault packaged in a FlexusL instance can be expanded separately, but the vCPUs, memory, peak bandwidth, and data package of a FlexusL instance cannot be expanded or reduced separately.

Network

Table 7-2 Restrictions on networks of FlexusL instances

Item	Description
Public network	<ul style="list-style-type: none">• By default, an EIP is assigned for a FlexusL instance. It cannot be changed and will not be retained after the instance is released.• FlexusL instances do not support IPv6 addresses.• The peak bandwidth cannot be upgraded separately.• Data packages cannot be purchased or upgraded separately. If the data package in a FlexusL instance does not meet your service requirements, you can buy a shared data package to reduce traffic costs. (Compared with the pay-per-use billing mode, a shared data package is more cost-effective.) For details, Can I Purchase a Data Package Separately?
Private network	<ul style="list-style-type: none">• The VPC cannot be changed after a FlexusL instance is created.• By default, a private IP address is assigned for a FlexusL instance. The assigned private IP address cannot be changed and will not be retained after the instance is released.

 **NOTE**

If you want to change the VPC or IP address for an existing cloud server, you are advised to purchase [ECs](#) or [Huawei Cloud FlexusX instances](#).

Private Images

Table 7-3 Restrictions on private images of FlexusL instances

Item	Description
Region	A FlexusL instance must use a private image that is in the same region as the instance, or the image cannot be selected.
Cloud server architecture	Only x86 is supported. Arm is not supported.

Item	Description
Image type	<p>Only system disk private images are supported. Data disk private images and full-server private images are not supported.</p> <ul style="list-style-type: none">Linux system disk images only support the following image sources: free Huawei Cloud public Linux images, images created from FlexusL instances that are created using application images, and third-party private images you have imported. Other billed Linux images created from KooGallery images are not supported.Windows system disk images with the Bring Your Own License (BYOL) are supported. <p>NOTE FlexusL instances do not support full-server images. If you want to migrate an entire server to a FlexusL instance, use Server Migration Service (SMS). For details, see Migrating Servers Using Server Migration Service (SMS).</p>
Password reset plug-in	<p>If a private image is created from a server on another cloud platform or downloaded from a third party, the private image may fail to be used to create a FlexusL instance or change the OS of an instance because the password reset plug-in is not installed on the image or the <code>onekey_resetpasswd</code> tag is missing. For details, see What Should I Do If a Private Image Cannot Be Used to Create a FlexusL Instance or Change the OS of an Instance Because the Password Reset Plug-in Is Not Installed on the Image or the onekey_resetpasswd Tag Is Missing?</p>

EVS Disks

Table 7-4 Restrictions on EVS disks of FlexusL instances

Item	Description
System disk	<ul style="list-style-type: none">• Only General Purpose SSD disks are supported.• System disks cannot be added.• An existing system disk cannot be attached.• System disks cannot be expanded separately.<ul style="list-style-type: none">– You can expand the system disk capacity by upgrading the instance specifications. For details, see Modifying the Specifications of a FlexusL Instance.– If you have additional storage requirements, you can add a data disk or expand data disk capacity. For details, see Adding a Data Disk and Expanding the Capacity of a Data Disk.• System disks in FlexusL instances cannot be detached.
Data disk	<ul style="list-style-type: none">• Only General Purpose SSD V2 and High I/O disks are supported.• Only one data disk can be added.• Existing data disks cannot be attached to FlexusL instances.• The capacity of data disks only can be expanded. It cannot be reduced.• Data disks in FlexusL instances cannot be detached.

Backups

Table 7-5 Restrictions on backups of FlexusL instances

Item	Description
CBR	FlexusL instances only support server backup vaults.
Snapshot	FlexusL instance data cannot be rolled back using EVS disk snapshots on the FlexusL console. To back up and restore server data, use CBR. For details, see Backing Up and Restoring a FlexusL Instance .

Quotas

Table 7-6 Quotas

Item	Description
FlexusL	<ul style="list-style-type: none">By default, you can create a maximum of 100 FlexusL instances in total in a region. To increase the quota, submit a service ticket.The number of FlexusL instances you can purchase may not reach 100 because of the quota limits of resources (EIPs, cloud servers, and vCPUs). To increase quotas of resources, submit a service ticket as prompted on the console.
ICP filing	You can apply for up to five ICP filings for a FlexusL instance.

Other Constraints

- FlexusL instances do not support nested virtualization.
- Do not install external hardware devices, such as encryption dongles or USB flash drives on FlexusL instances.

Precautions

- Do not use FlexusL instances as unauthorized servers for any illegal or violation activities, such as gambling or cross-border VPN.
- Do not use FlexusL instances for fraudulent transactions, such as click farming on e-commerce websites.
- Do not use FlexusL instances to initiate network attacks, such as DDoS attacks, CC attacks, web attacks, and brute force cracking, or to spread viruses and Trojan horses.
- Do not use FlexusL instances for traffic transit.
- Do not use FlexusL instances for web crawling.
- Do not use FlexusL instances to detect other systems like scanning or penetration unless otherwise being authorized.
- Do not deploy any illegal websites or applications on FlexusL instances.
- Do not use FlexusL to send spam or engage in activities that violate personal privacy.