Flexus X Instance

FAQs

Issue 01

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1 Product Consulting

1.1 What Are the Differences Between FlexusL, FlexusX, and ECS?

- 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 about the differences among them, see **Table 1-1**.

Table 1-1 Differences among FlexusL, FlexusX, and ECS

Item	FlexusL	FlexusX	ECS
Target customers	Small- and medium-sized enterprises and developers with low service loads and requiring fast deployment	Small- and medium-sized enterprises and developers with medium service loads and requiring flexible configurations	High-load and full-service scenarios, such as website applications, enterprise e-commerce, graphics rendering, data analysis, and high-performance computing.

Item	FlexusL	FlexusX	ECS
Features	Various built-in solutions and images, quick environment setup, easy service management	Custom specifications, stable and robust performance, and flexible pay-per-use billing	Flexible vCPU, memory, and bandwidth configuration; reliable, secure, and efficient application environments
CPU architecture	x86	x86 or Arm	x86 or Arm
Billing mode	Yearly/Monthly FlexusL instances are sold and managed as packages. Resources created with FlexusL instances cannot be renewed or unsubscribed from separately.	• Pay-per-use • Yearly/Monthly	• Yearly/Monthly • Pay-per-use • Spot pricing
Specifications	• Multiple instance specifications are available. • Instance specifications can only be upgraded.	• vCPU to memory ratios can be customized. For details, see **Instance Specifications**. • Instance specifications can be upgraded or degraded.	• Multiple instance specifications are available. • Instance specifications can be upgraded or degraded.

Item	FlexusL	FlexusX	ECS
Disks	Each FlexusL instance has a system disk with a fixed capacity by default and supports one data disk at most. Data on FlexusL instances cannot be restored using snapshots on the console. • System disk: General Purpose SSD • Data disk: General Purpose SSD V2	System disk specifications can be customized. Supported disk types: • System disk: common I/O, high I/O, General Purpose SSD, ultra-high I/O, and General Purpose SSD V2 • Data disk: common I/O, high I/O, General Purpose SSD, ultra-high I/O, and General Purpose SSD V2	System disk specifications can be customized. • System and data disks: All disk types are supported. For details about disk types supported by cloud servers, see **Disk Types and Performance**.
Networks	• A fixed EIP is assigned by default. • EIP bandwidth is billed by traffic. A FlexusL instance comes with a monthly data package. • The VPC, private IP address, and public IP address of a FlexusL instance cannot be changed.	• You can choose whether to bind an EIP. • You can select an EIP type. • Bandwidth is billed by bandwidth, traffic, or shared bandwidth.	• You can choose whether to bind an EIP. • You can select an EIP type. • Bandwidth is billed by bandwidth, traffic, or shared bandwidth.

Item	FlexusL	FlexusX	ECS
Advantages	Easy setup and O&M, cost-effective, and secure	• Easy setup and O&M, cost-effective, and secure • FlexusX instances that use the Huawei Cloud EulerOS 2.0 public image support Nginx, Redis, MySQL, PostgreSQL, and Memcached application acceleration	Stable, reliable, scalable, secure, and hardware-software synergy
Images	• Mainstream OS images • Various application images • Only system disk private images	• Various public images • Private images and shared images	• Various public images • Private images, shared images, and KooGallery images
Login mode	Password or key pair	Password or key pair	Password or key pair
Combined purchase	• HSS (basic edition) • CBR	• HSS (all editions) • Cloud Eye • CBR	• HSS (all editions) • Cloud Eye • CBR

1.2 What Processor Does FlexusX Use and What Are the Basic/Turbo Frequencies?

FlexusX uses different processors and provides different basic/turbo frequencies depending on whether performance mode is enabled.

The following lists the processors and basic/turbo frequencies of x86-powered FlexusX instances. For more information, see **Instance Specifications (x86 Compute)**.

- In non-performance mode:
  - Processor: 3rd Generation Intel® Xeon® Scalable Processor
  - Basic/Turbo frequency: 2.8 GHz/3.5 GHz or 2.6 GHz/3.4 GHz
- In performance mode, the basic/turbo frequency is 2.45 GHz/3.5 GHz or 2.4 GHz/3.7 GHz.

The following lists the processors and basic frequencies of Kunpeng-powered FlexusX instances. For more information, see **Instance Specifications (Kunpeng Compute)**.

- Processor: Kunpeng 920 new model
- Basic frequency: 2.9 GHz

For more information about performance mode, see **Performance Mode**.

1.3 What Regions Does FlexusX Support?

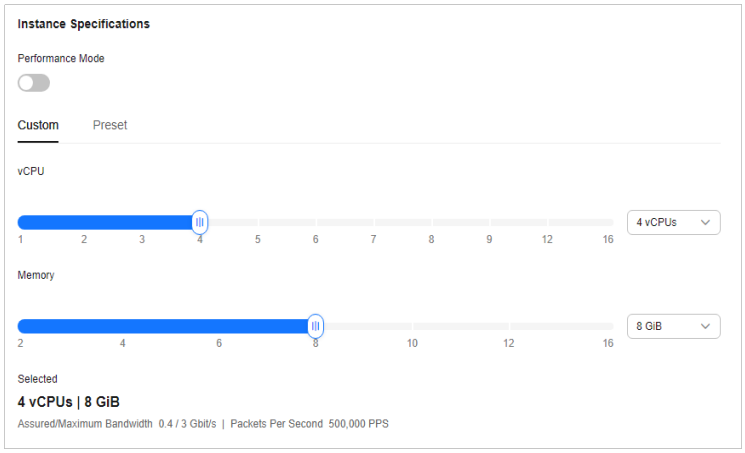
CN North-Beijing4, CN North-Ulanqab1, CN East-Shanghai1, CN South-Guangzhou, CN Southwest-Guiyang1, CN-Hong Kong, AP-Bangkok, AP-Singapore, AP-Jakarta, TR-Istanbul, ME-Riyadh, LA-Mexico City2, LA-Sao Paulo1, LA-Santiago, AF-Cairo, and AF-Johannesburg

1.4 What Is Flexible Compute Provided by FlexusX?

FlexusX allows you to:

- Customize the CPU and memory specifications based on service requirements. ECS does not offer this level of flexibility.

  Figure 1-1 Customizing CPU and memory specifications

- Upgrade the vCPU or memory specifications of FlexusX instances without stopping the instances. For details about live change, see **What Is Live Change?**

2 Billing

2.1 What Billing Modes Does FlexusX Support?

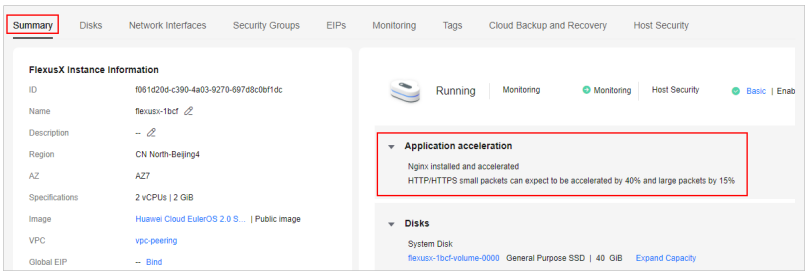
FlexusX instances support yearly/monthly and pay-per-use billing modes to meet your requirements in different scenarios. You can change the billing mode from yearly/monthly to pay-per-use, and vice versa. For more information, see **Billing**.

3 OS and Image

3.1 How Do I Check Whether Application Acceleration Is Enabled for a FlexusX Instance?

After application acceleration is enabled, the information about the enhanced performance is displayed on the FlexusX console. If the application acceleration information is displayed after you perform the following steps, the application is accelerated.

1. Log in to the **FlexusX console**. In the upper left corner, click and select a region.
2. Click the name of the FlexusX instance. On the **Summary** tab, view the accelerated application and performance improvement.



3.2 What Images Does FlexusX Support?

FlexusX instances can be created from public, private, and shared images.

- FlexusX supports the following public images:

  Huawei Cloud EulerOS, CentOS, SUSE, Ubuntu, EulerOS, Debian, OpenSUSE, Fedora, AlmaLinux, Rocky Linux, CentOS Stream, CoreOS, openEuler, FreeBSD, and SUSESAP.
- Shared images and private images can be system disk images, data disk images, and full-server images. In addition, private images and shared images have the following constraints:

- Images are regional resources. FlexusX instances can only use private images that are in the same region as them.
- Only private images created using x86 servers are supported in FlexusX.
- For Windows private images, FlexusX instances only support Windows Server 2022/2019/2016/2012 R2 Standard Edition and Data Center Edition images purchased from Huawei Cloud KooGallery, as well as Windows private images with the Bring Your Own License (BYOL).
- When you use a private image to create a FlexusX instance or change the OS, ensure that the instance specifications (vCPUs, memory, and system disk capacity) meet the requirements of that private image. Otherwise, the private image cannot be used.

4 Specification Modification FAQ

4.1 What Is Live Change?

Live change is only supported by the Huawei Cloud EulerOS 2.0 image. It allows you to upgrade the vCPU or memory specifications of FlexusX instances without stopping the instances. After the upgrade is complete, you can use the new specifications without interrupting services.

NOTE

The live change function is in the open beta testing (OBT) phase. Apply for the function as needed by **submitting a service ticket**.

Live change has the following constraints:

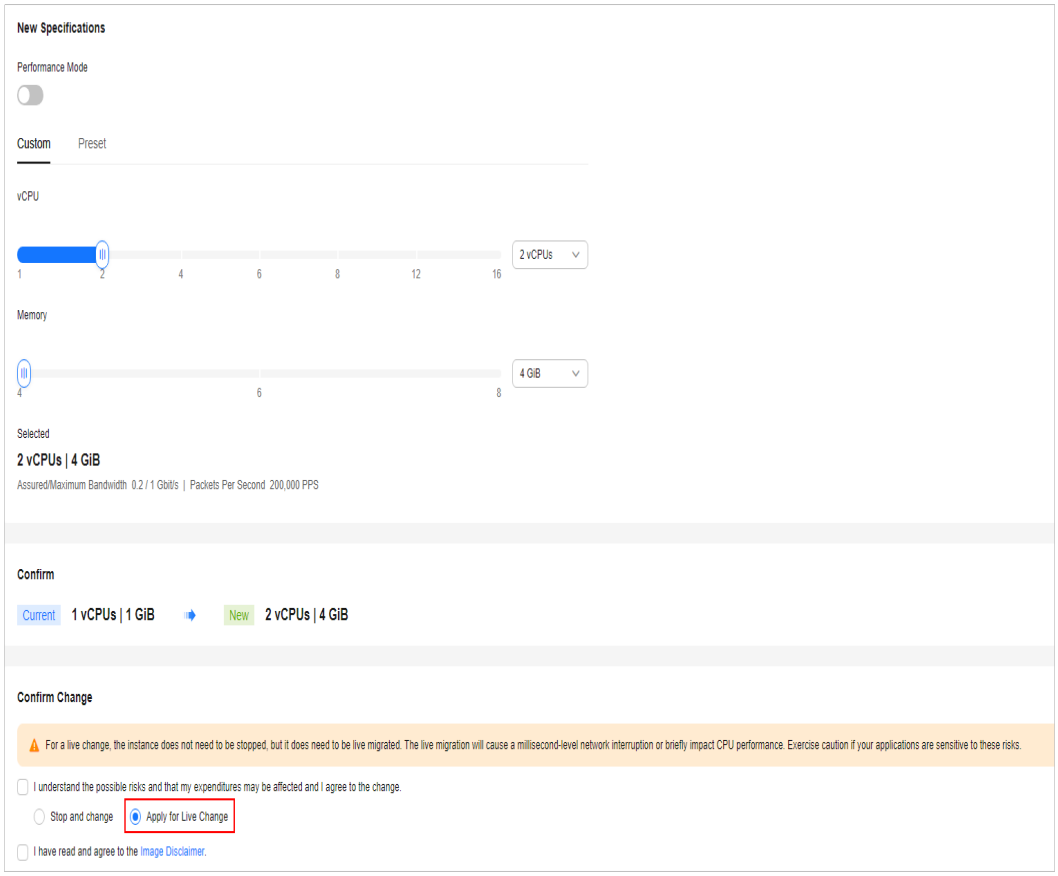
- Live change is only supported by FlexusX instances that use the Huawei Cloud EulerOS 2.0 image.
- The vCPUs and memory can only be upgraded. They cannot be downgraded.
- Live change is supported only between FlexusX instance specifications.
- Live change is supported only when the current and new specifications both support live change.
- Memory can be lively changed for a maximum of 12 times.
- Batch live changes are not supported.

4.2 How Do I Use Live Change of Specifications?

Live change is in the open beta testing (OBT) phase. You can **submit a service ticket** to apply for the OBT as needed.

The live change option is displayed on the console only when the live change conditions are met. If the live change conditions are not met, the live change option is not displayed on the console when you modify specifications. For details about the constraints on live change, see **What Is Live Change?**

Figure 4-1 Live change

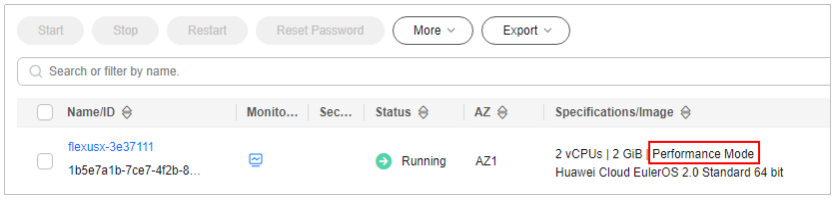


5 Performance Mode

5.1 How Do I Know Whether Performance Mode Is Enabled for a FlexusX Instance?

If performance mode is enabled for your FlexusX instance, **Performance Mode** is displayed in the **Specifications/Image** column on the FlexusX console. If **Performance Mode** is not displayed, the performance mode is not enabled for your FlexusX instance.

Figure 5-1 A FlexusX instance with performance mode enabled



5.2 How Much Can Performance Be Improved If Performance Mode Is Enabled for a FlexusX Instance?

FlexusX provides flexible compute resources with QoS-guaranteed performance. FlexusX instances perform as well as exclusive instances most of the time but may occasionally underperform. To meet the strict performance requirements of certain workloads, such as rendering and HPC applications, FlexusX provides a performance mode option. If this option is enabled, your FlexusX instances are bound with the underlying CPU cores, so they can provide stable, ultimate QoS-guaranteed performance.

Enabling performance mode guarantees the performance but does not improve the performance.

5.3 Do I Need to Stop My FlexusX Instance If I Want to Enable or Disable Performance Mode for It?

To enable or disable performance mode for a FlexusX instance, whether you need to stop the instance is determined by the images and other factors.

NOTE

The live change is in the OBT phase. Apply for the function as needed by **submitting a service ticket**.

You can modify specifications at instance runtime if you have applied for the OBT and the following conditions are met:

- Live change is only supported by FlexusX instances that use the Huawei Cloud EulerOS 2.0 image.
- The vCPUs and memory can only be upgraded. They cannot be downgraded.
- Live change is supported only between FlexusX instance specifications.
- Live change is supported only when the current and new specifications both support live change.
- Memory can be lively changed for a maximum of 12 times.
- Batch live changes are not supported.

5.4 Can I Enable Performance Mode After a FlexusX Instance Is Created?

Yes. You can enable performance mode for an existing FlexusX instance using the **Modify Specifications** option. For more information, see **Modifying the Specifications of a FlexusX Instance**.

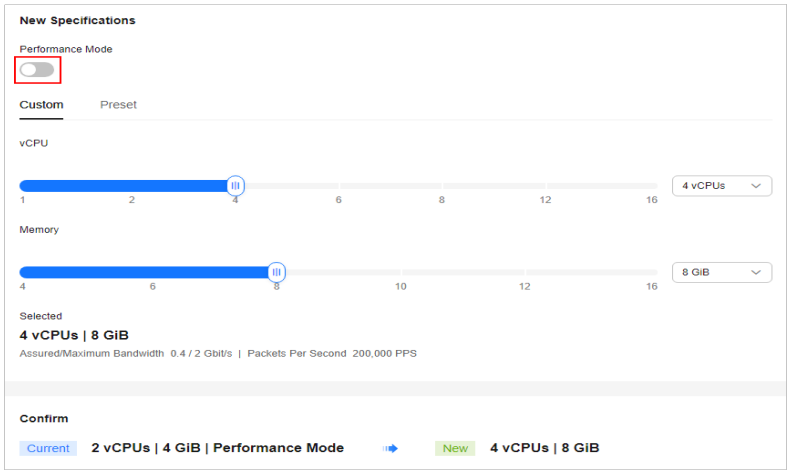
During this process, you may also need to modify the instance specifications together if there are insufficient underlying resources.

5.5 Will I Continue to Be Billed If I Disable Performance Mode for My FlexusX Instance?

You can disable performance mode using the **Modify Specifications** option. For more information, see **Modifying the Specifications of a FlexusX Instance**.

- If your FlexusX instance is billed in pay-per-use billing mode, disabling performance mode takes effect immediately, and you will be billed based on the specifications after performance mode is disabled.
- If your FlexusX instance is billed in yearly/monthly billing mode, disabling performance mode takes effect immediately, and any additional fees pre-paid for performance mode will be refunded based on the remaining subscription period.

Figure 5-2 Disabling performance mode using the **Modify Specifications** option



5.6 Why Does the Basic Frequency Become Lower After I Enable Performance Mode for a FlexusX Instance?

FlexusX provides flexible compute resources with QoS-guaranteed performance. FlexusX instances perform as well as exclusive instances most of the time but may occasionally underperform. To meet the strict performance requirements of certain workloads, such as rendering and HPC applications, FlexusX provides a performance mode option. If this option is enabled, your FlexusX instances are bound with the underlying CPU cores, so they can provide stable, ultimate QoS-guaranteed performance.

Enabling performance mode guarantees the performance but does not improve the performance. The advantage of the performance mode lies in stable performance guarantee. It can ensure 100% CPU compute for 100% of the time, rather than outperforming non-performance mode in burst performance. FlexusX instances with performance mode enabled do not provide higher basic/turbo frequency than those without performance mode enabled.

6 Password

6.1 What Are the Username and Password for Remotely Logging In to a FlexusX Instance?

The default username for logging in to a Windows FlexusX instance is **Administrator**, and that for a Linux FlexusX instance is **root**.

If you have set a password when purchasing a FlexusX instance, enter the password for remote login. If you forget the password, reset it and use the new one for login. For more information, see **Resetting the Password of a FlexusX Instance**.

6.2 What Can I Do If I Forget the Login Password of a FlexusX Instance?

You can reset the password and use the new one to log in to the FlexusX instance. For more information, see **Resetting the Password of a FlexusX Instance**.

