

# Flexus Contaiier Instance

## User Guide

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# 1 Creating a Container Service

You can buy FlexusCCI and create containers on the console. You only need to specify container images and compute resource specifications required by container services to run various applications (from simple web applications to multi-layer microservices).

## Procedure

- Step 1** Log in to the FlexusCCI console.
- Step 2** In the upper right corner of the page, click **Buy FlexusCCI**.
- Step 3** Configure the parameters.
  - **Basic Configuration**

**Table 1-1** Basic configuration for a container service

Parameter	Description
Billing Mode	Only pay-per-use is available.
Region	Select the region where FlexusCCI will be used. Cloud service products in different regions cannot communicate with each other over a private network. Select a nearest location for low latency and fast access.

- **Container Setting**

There are two ways to create containers: using a template or specifying the configuration.

**Table 1-2** Parameters for creating a container using a template

Parameter	Description
Configuration Type	Select <b>Template</b> . There are three options: Nginx, Hello World, or WordPress.

Parameter	Description
Container Name	<ul style="list-style-type: none"><li>- The container name cannot be changed after creation. If you need to change the name, create another container.</li><li>- Enter 1 to 63 characters. Start and end with a letter or digit. Use only lowercase letters, digits, and hyphens (-).</li></ul>
Port	<ul style="list-style-type: none"><li>- Nginx port number: 80</li><li>- Hello World port number: 80</li><li>- WordPress port numbers: TCP 80 or TCP 3306</li></ul>
Public Network Setting	Container port: 80

**Table 1-3** Parameters for creating a container by specifying the configuration

Parameter	Description
Configuration Type	Select <b>Custom Configuration</b> . Specify the container information as required.
Container Name	<ul style="list-style-type: none"><li>- The container name cannot be changed after creation. If you need to change the name, create another container.</li><li>- Enter 1 to 63 characters. Start and end with a letter or digit. Use only lowercase letters, digits, and hyphens (-).</li></ul>
SWR Image Address	<ul style="list-style-type: none"><li>- <b>My Images</b>: images that you have uploaded to SWR. For details, see <a href="#">Uploading an Image Through a Client</a>.</li><li>- <b>Open Source Images</b>: public images in the image center.</li><li>- <b>Shared Images</b>: images shared by others through SWR.</li></ul> <p><b>NOTE</b></p> <ul style="list-style-type: none"><li>▪ If you are an IAM user, you need to request permissions by referring to <a href="#">Organization Management</a> before using private images in the account.</li><li>▪ Currently, FlexusCCI does not support third-party image repositories.</li><li>▪ A single layer of the decompressed image must not exceed 20 GB.</li></ul>
Image Tag	Select an available image tag.

Parameter	Description
Startup Command	(Optional) Enter the container startup command, which will be executed upon container startup. Startup commands correspond to the ENTRYPOINT startup instructions of the container engine.
Container Port	<ul style="list-style-type: none"><li>- The port ranges from 1 to 65535. You can specify the listening port of the application as the container port.</li><li>- The protocol can be TCP or UDP. This parameter is optional.</li></ul>
Environment Variables	<ul style="list-style-type: none"><li>- <b>Variable Name:</b> Enter a name of the environment variable.</li><li>- <b>Value:</b> Enter a value. This parameter is optional. Environment variables provide great flexibility for applications. You can assign values to environment variables when creating containers. The values will be read when containers are running.</li></ul>
Public Network Setting	Specify the container port that will be mapped to the port on the EIP. In this way, the container can be accessed from the Internet.

- **Flavor**

Two flavors are available: 2 vCPUs and 4-GiB memory and 4 vCPUs and 16-GiB memory. Set this parameter based on the runtime of the application.

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 **CAUTION**

After a container service is created, the flavor cannot be changed.

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- **Container Service Name**

The name must be unique. Enter 1 to 63 characters starting and ending with a letter or digit. Only lowercase letters, digits, hyphens (-), and periods (.) are allowed. Do not enter consecutive periods or place a hyphen before or after a period.

 **NOTE**

A container service can contain multiple containers.

**Step 4** Click **Buy Now**.

----End

# 2 Accessing a FlexusCCI Container over a Public Network

## Prerequisites

Before using the public network to access a FlexusCCI container, you need to specify the public network setting for the container.

## Procedure

After a container service is created, if the listening port of the application is mapped to a port on the public network, the application can be accessed using an EIP.

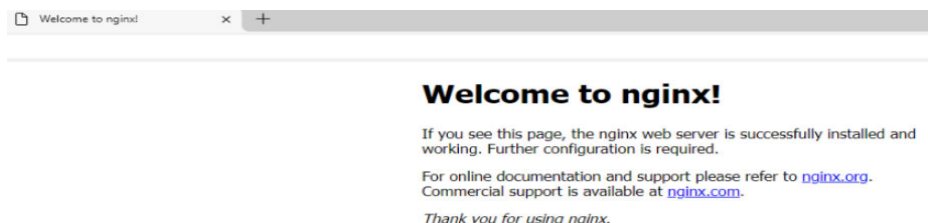
**Step 1** Log in to the FlexusCCI console.

**Step 2** Locate the container service, view and copy public network access address in the **Public Network Details**.



Container Service ...	Status	vCPUs	Memory	Pods	Public Network ...	Private Net...	Billing Mode	Created	Operation
container-service-3	Running	2 vCPUs	4 GB	1	192.168.0.63:80	192.168.0.63:80	Pay-per-use	Aug 12, 2024 14:44:23	Update Disable Delete

**Step 3** Paste the public network access address in the address box of a browser and access the application.



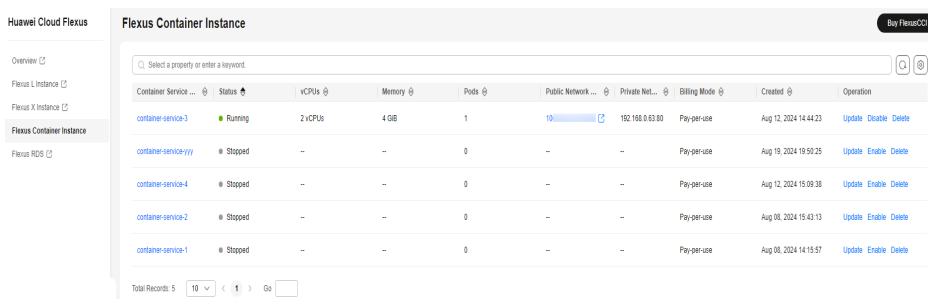
----End

# 3 Managing FlexusCCI

## 3.1 Viewing a Container Service

**Step 1** Log in to the FlexusCCI console.

**Step 2** You can view container service details after it is created.



The screenshot shows the 'Flexus Container Instance' console. A table lists several container services with columns for Name, Status, vCPUs, Memory, Pods, Public Network, Private Net., Billing Mode, Created, and Operation. The first service, 'container-service-3', is in a 'Running' state with 2 vCPUs and 4 GB of memory. The other services are in a 'Stopped' state.

Container Service	Status	vCPUs	Memory	Pods	Public Network	Private Net.	Billing Mode	Created	Operation
container-service-3	Running	2 vCPUs	4 GB	1	10.10.10.10	192.168.0.63.80	Pay-per-use	Aug 12, 2024 14:44:23	Update Disable Delete
container-service-yyy	Stopped	-	-	0	-	-	Pay-per-use	Aug 19, 2024 19:59:25	Update Enable Delete
container-service-4	Stopped	-	-	0	-	-	Pay-per-use	Aug 12, 2024 15:09:38	Update Enable Delete
container-service-2	Stopped	-	-	0	-	-	Pay-per-use	Aug 08, 2024 15:43:13	Update Enable Delete
container-service-1	Stopped	-	-	0	-	-	Pay-per-use	Aug 08, 2024 14:15:57	Update Enable Delete

**Table 3-1** Container service details

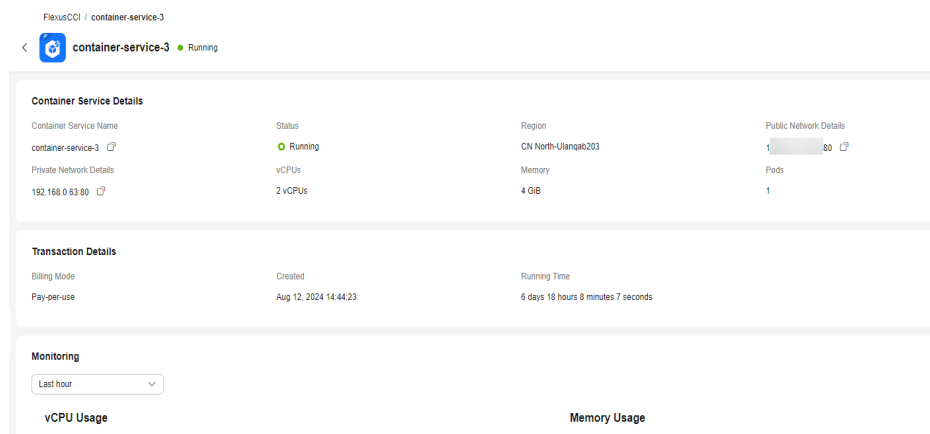
Parameter	Description
Container Service Name	Container service name entered during creation.
Status	Status of the container service. <ul style="list-style-type: none"><li><b>Unready:</b> The container service is not ready. This is a temporary intermediate state after a container service is purchased or after the startup command is delivered and before the container service starts to run.</li><li><b>Running:</b> The container service is running normally.</li><li><b>Stopped:</b> The container service is stopped. This is a state after the stop command is delivered and the containers are terminated.</li></ul>
vCPUs	The number of vCPUs that are allocated to the container service.



Parameter	Description
Memory	The amount of memory that is allocated to the container service.
Pods	The number of pods required for running a container service.
Public Network Details	Public network access address when the container service is running normally.
Private Network Details	Private network access address when the container service is running normally.
Billing Mode	Billing mode of FlexusCCI.
Created	Time when the container service was created.

**Step 3** Click the container service name to view the details.

**Figure 3-1** Container service details



----End

## 3.2 Updating a Container Service

### Scenarios

If an image used by the container service cannot meet your requirements, you can change the image by updating the container.

### Constraints

- The flavor cannot be changed when you update a container service.
- The public network bandwidth cannot be changed. To change the bandwidth, go to the EIP console and modify the EIP configuration.

## Procedure

- Step 1** Log in to the FlexusCCI console.
  - Step 2** Locate the container service you want to update and click **Update** in the **Operation** column.
  - Step 3** Locate the container you want to update and click **Edit** in the **Operation** column to modify the container name, image, environment variables, and container port.
  - Step 4** Click **OK**. A new container will be started, and the old container will be deleted.
- End

## 3.3 Deleting a Container Service

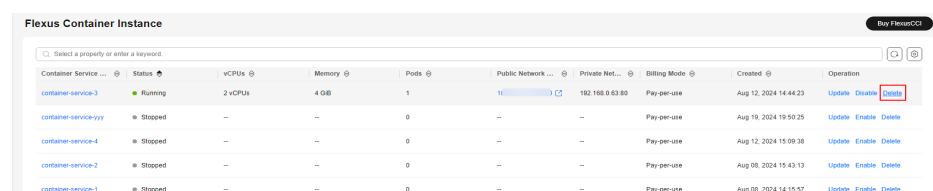
### Precaution

When a container service is deleted, related resources such as the images used by the containers will also be deleted and cannot be recovered.

### Procedure

- Step 1** Log in to the FlexusCCI console.
- Step 2** Locate the container service you want to delete and click **Delete** in the **Operation** column.

**Figure 3-2** Deleting a container service



Container Service	Status	vCPUs	Memory	Pods	Public Network	Private Net...	Billing Mode	Created	Operation
container-service-3	Running	2 vCPUs	4 GiB	1	10.10.10.10	192.168.0.0/24	Pay-per-use	Aug 12, 2024 14:44:23	Update Disable <b>Delete</b>
container-service-yyy	Stopped	--	--	0	--	--	Pay-per-use	Aug 19, 2024 19:50:25	Update Enable Delete
container-service-4	Stopped	--	--	0	--	--	Pay-per-use	Aug 12, 2024 15:09:38	Update Enable Delete
container-service-2	Stopped	--	--	0	--	--	Pay-per-use	Aug 08, 2024 15:43:13	Update Enable Delete
container-service-1	Stopped	--	--	0	--	--	Pay-per-use	Aug 06, 2024 14:10:57	Update Enable Delete

- Step 3** Enter **DELETE** or **delete** and click **OK**. The containers for running the container service will also be deleted.

----End

## 3.4 Enabling or Disabling a Container Service

### Scenarios

If you do not need to use a container service temporarily, you can disable it. After a container service is disabled, the containers for running the container service will not exist, and you cannot manage resources on the containers.

## Constraints

It takes 3 to 5 minutes to disable a container service. Do not run your application during this period of time.

## Disabling a Container Service.

- Step 1** Log in to the FlexusCCI console.
- Step 2** Locate the container service you want to disable and click **Disable** in the **Operation** column. Wait until the container service is disabled.

After the container service is disabling, the containers will not exist.

**Figure 3-3** Disabling a container service

Container Service	Status	vCPUs	Memory	Pods	Public Network	Private Net...	Billing Mode	Created	Operation
container-service-3	Running	2 vCPUs	4 GB	1	10.10.10.10	192.168.0.63/30	Pay-per-use	Aug 12, 2024 14:44:23	Update <b>Disable</b> Delete
container-service-yy	Stopped	--	--	0	--	--	Pay-per-use	Aug 19, 2024 19:50:25	Update Enable Delete
container-service-4	Stopped	--	--	0	--	--	Pay-per-use	Aug 12, 2024 15:09:38	Update Enable Delete
container-service-2	Stopped	--	--	0	--	--	Pay-per-use	Aug 08, 2024 15:43:13	Update Enable Delete
container-service-1	Stopped	--	--	0	--	--	Pay-per-use	Aug 08, 2024 14:15:57	Update Enable Delete

----End

## Enabling a Container Service

- Step 1** Log in to the FlexusCCI console.
- Step 2** Locate the container service you want to enable and click **Enable** in the **Operation** column. Wait until the container service is enabled.

After the container service is enabled, the billing continues.

**Figure 3-4** Enabling a container service

Container Service	Status	vCPUs	Memory	Pods	Public Network	Private Net...	Billing Mode	Created	Operation
container-service-3	Running	2 vCPUs	4 GB	1	10.10.10.10	192.168.0.63/30	Pay-per-use	Aug 12, 2024 14:44:23	Update <b>Enable</b> Delete
container-service-yy	Stopped	--	--	0	--	--	Pay-per-use	Aug 19, 2024 19:50:25	Update <b>Enable</b> Delete
container-service-4	Stopped	--	--	0	--	--	Pay-per-use	Aug 12, 2024 15:09:38	Update Enable Delete
container-service-2	Stopped	--	--	0	--	--	Pay-per-use	Aug 08, 2024 15:43:13	Update Enable Delete
container-service-1	Stopped	--	--	0	--	--	Pay-per-use	Aug 08, 2024 14:15:57	Update Enable Delete

----End