

# TencentCloud Lighthouse

## Getting Started

### Product Documentation



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# Getting Started

## Quickly Creating Application with Lighthouse

Last updated : 2022-08-15 18:03:47

This document describes how to use Lighthouse to quickly create an application. You can create and deploy an application with speed and ease as instructed in this document.

### Step 1. Sign up and top up

1. [Sign up for a Tencent Cloud account.](#)

If you already have a Tencent Cloud account, ignore this step.

2. [Top up.](#)

Lighthouse instances are available through monthly subscription. To make a purchase, you need to top up your account as instructed in [Payment Methods](#).

### Step 2. Select an application image during Lighthouse instance creation

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

2. Click **Create** to enter the Lighthouse purchase page.

Region <sup>?</sup> **Hong Kong** Singapore Tokyo Silicon Valley Toronto Frankfurt Mumbai

Lighthouse instances in different regions cannot communicate with each another over a private network. Selecting the region closest to your end users can minimize access latency and improve download speed. You cannot change the region after creating a Lighthouse instance. [Region and connectivity](#)

Availability zone <sup>?</sup>  Randomly assigned <sup>?</sup>

Image **Official image** Individual image

**Application image** System image

<b>WordPress 5.7.1</b>	<b>WooCommerce 6.5.1</b>	<b>SRS Streaming Server 4.5</b>	<b>Cloudreve 3.3.1</b>
<b>Matomo 4.9.1</b>	<b>LAMP 7.4.16</b>	<b>Node.js 14.16.1</b>	<b>Theia 1.12.1</b>
<b>Docker 19.03.9</b>	<b>K3s 1.23.6</b>	<b>ASP.NET 4.8</b>	

**WordPress 5.7.1**  
WordPress is the world's most popular open source blog and content management site building platform, with simple to use, powerful, flexible and scalable features, providing a wealth of thematic plug-ins, you can use it to build blogs, corporate websites, e-commerce, forums and other types of websites. The image is based on CentOS 7.6 64-bit operating system, has pre-installed Nginx, MariaDB, PHP software.

Instance bundle <sup>?</sup> **General** Enterprise

<b>SD/month</b> CPU 2 cores (dedicated) Memory 2GB System disk 30GB SSD Bandwidth 30Mbps Transfer 1024 GB/month	<b>SD/month</b> CPU 2 cores (dedicated) Memory 2GB System disk 50GB SSD Bandwidth 30Mbps Transfer 2048 GB/month	<b>SD/month</b> CPU 2 cores (dedicated) Memory 4GB System disk 60GB SSD Bandwidth 30Mbps Transfer 2560 GB/month	<b>SD/month</b> CPU 2 cores (dedicated) Memory 4GB System disk 80GB SSD Bandwidth 30Mbps Transfer 3072 GB/month
<b>SD/month</b> CPU 2 cores (dedicated) Memory 8GB System disk 90GB SSD Bandwidth 30Mbps Transfer 3584 GB/month	<b>SD/month</b> CPU 2 cores (dedicated) Memory 8GB System disk 100GB SSD Bandwidth 30Mbps Transfer 4096 GB/month		

An independent fixed public IP is assigned for free. The public network outbound traffic beyond the transfer quota will incur additional fees. [View pricing](#)

Instance name  The multiple instances created in batch will be suffixed with sequential numbering by default. You can enter 60 characters

Purchase period **1 month** 2 3 6 months 1 year 2 years 3 years 4 years 5 years [More](#)

Auto-renew the device every month when my account has sufficient balance

Quantity

- **Region:** We recommend you select a region near your target users to reduce the network latency and improve their access speed.

- **Availability zone: Randomly assigned** is selected by default. You can select one as well.
- **Image:** Select the required application. In this example, the **WordPress 5.7.1** application image is selected.
- **Instance bundle:** Select an instance bundle according to the required instance configuration (including CPU, memory, system disk, bandwidth, and data transfer plan).
- **Instance Name:** enter a custom instance name. If it is left empty, "image name-four random characters" will be used as the name by default. When instances are created in batches, their names will be consecutive with auto-incrementing suffixes. For example, if you enter "LH" as the name and select 3 as the quantity, 3 instances "LH1", "LH2", and "LH3" will be created.
- **Purchase period:** Default to **1 month**.
- **Quantity:** One instance by default.

3. Click **Buy now**.

4. Make sure the configuration information is correct, click **Submit order** and make the payment as prompted.


After making the payment, the WordPress application will be successfully created. Then, you can log in to the instance and manage the application.

## Step 3. Get the admin information

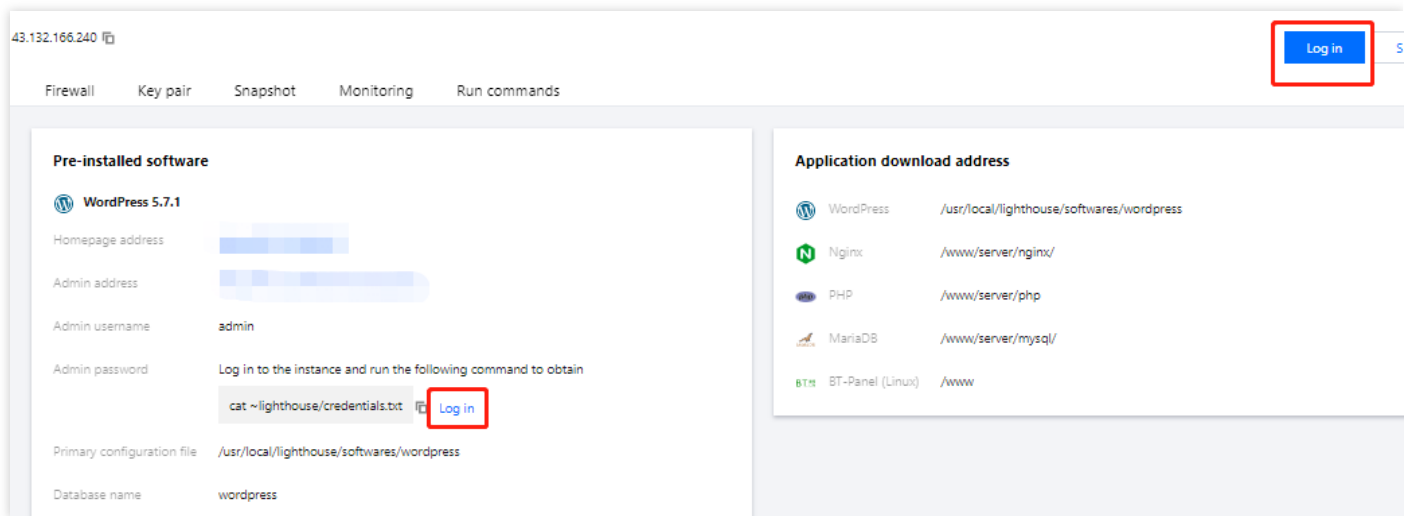
1. Log in to the [Lighthouse console](#) and select the target instance in the instance list to enter its details page.
2. Select the **Pre-installed application** tab, and enter the application details page.

### Note

Only the Lighthouse instance created with "application image" has the **Pre-installed application** tab.

3. In the **Application Software Info** column, click  to copy the command for getting the WordPress admin account and password.

4. In the **Pre-installed software** section, click **Log in**.



5. In the pop-up login window, paste the command obtained in [step 3](#) and press **Enter**.

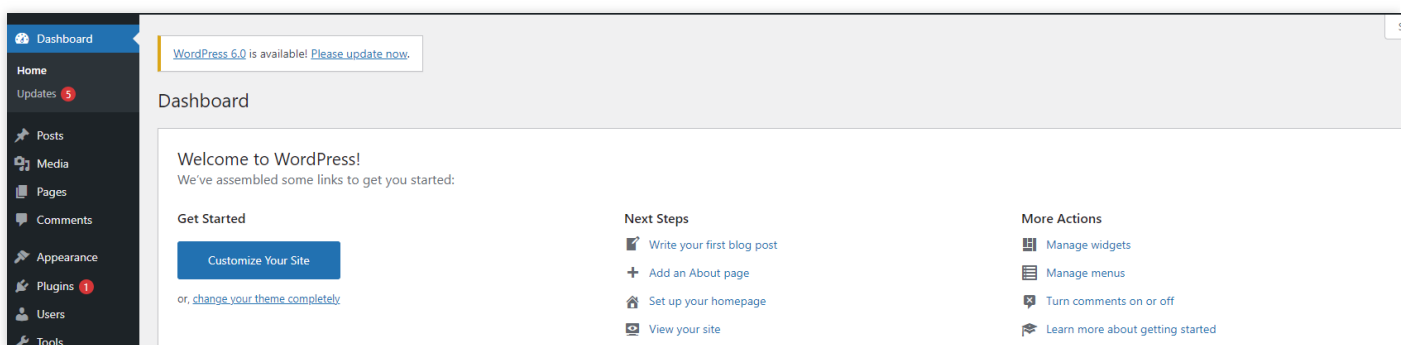
Then, you can obtain WordPress admin account (admin) and password (wordpress\_password).

## Step 4. Manage the application

1. In the **Pre-installed software** section, click **Admin address** of WordPress.

2. In the opened browser window, enter the account and password obtained in [Step 3. Get the admin information](#) and click **Log in**.

After successful login, you can manage, customize, and configure WordPress based on your actual needs as shown below:



## See Also

For more information on practical operations in different scenarios, see [Best Practices](#).

# Basic Concepts

Last updated : 2022-02-25 19:00:29

## Instance

A Lighthouse instance is a virtual computing resource in the cloud, containing the most basic components such as CPU, OS, network, and disk. Lighthouse instances are generally suitable for supporting low-load lightweight application scenarios with a mild amount of access requests, including small websites, web applications, blogs, forums, and cloud-based development, testing, and learning environments.

## Instance Package

When you create a Lighthouse instance, the instance package you specify determines its server hardware configuration. Lighthouse provides multiple instance packages consisting of CPU, memory, SSD cloud disk, and network traffic package. The computing, memory, and storage features vary by instance package. You can select an appropriate instance package based on the scale of your application to be deployed. For more information, please see [Instance Package](#).

## Image

An image is a preconfigured template that used to launch and run Lighthouse instances, which contains preinstalled OS and software applications. Lighthouse provides system and application images. You can use an image to create one or multiple instances.

## Storage

The system disks in all Lighthouse packages are Tencent Cloud SSD cloud disks, which are based on full NVMe SSD storage media and use a three-copy distributed storage mechanism to provide low-latency and high-throughput I/O capabilities with a high random IOPS and 99.9999999% data security. For more information on the SSD cloud disk performance, please see [Storage Performance Description](#).

## IP Address

Tencent Cloud provides [private IPs](#) and [public IPs](#). Simply put, a private IP provides a LAN service for access between Lighthouse instances, while a public IP is used for you to access an internet service on a Lighthouse instance.

For more information on the private network connectivity between different Lighthouse instances and between Lighthouse instances and other Tencent Cloud services, please see [Private Network Connectivity Description](#).

## Firewall



A firewall is an important method to protect the Lighthouse network security. It works similarly to security groups of CVM instances. You can configure firewall rules to open only certain ports on an instance so as to control the instance inbound traffic.

## Login Method

Tencent Cloud provides the following two encrypted login methods:

- **SSH key pair:** you can remotely log in to an instance after completing simple configurations in the console and local client and don't need to enter the password repeatedly in subsequent logins. This login method is more secure and reliable and can eliminate the threats of brute force attacks.
- **Login password:** any user with the instance login password can remotely log in to the corresponding Lighthouse instance at a public network address allowed by a security group.

# Creating Lighthouse Instances

## Creating a Linux Instance

Last updated : 2022-06-16 19:07:34

This document describes how to purchase and start using a Lighthouse instance.

### Step 1. Sign up and top up

1. [Sign up for a Tencent Cloud account.](#)

If you already have a Tencent Cloud account, ignore this step.

2. [Top up online.](#)

Lighthouse instances are available through monthly subscription. To make a purchase, you need to top up your account as instructed in [Payment Methods](#).

### Step 2. Purchase a Linux Lighthouse instance

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

2. Click **Create** to enter the Lighthouse purchase page.

### Tencent Cloud Lighthouse

**Region** ? Hong Kong Singapore Tokyo Silicon Valley Frankfurt Mumbai

Lighthouse instances in different regions cannot communicate with each another over a private network. Selecting the region closest to your end users can minimize access latency and improve download speed. You cannot change the region after creating a Lighthouse instance. [Region and connectivity](#)

**Availability zone** ?  Randomly assigned ?

**Image** Official image Individual image

Application image System image

<b>WordPress 5.7.1</b>	<b>WooCommerce 6.5.1</b>	<b>SRS Streaming Server 4.4</b>	<b>Typecho 1.1.0</b>
<b>Cloudfre 3.3.1</b>	<b>Matomo 4.9.1</b>	<b>LAMP 7.4.16</b>	<b>Node.js 14.16.1</b>
<b>Theia 1.12.1</b>	<b>Docker 19.03.9</b>	<b>K3s 1.23.6</b>	<b>ASP.NET 4.8</b>

**WordPress 5.7.1**

WordPress is the world's most popular open source blog and content management site building platform, with simple to use, powerful, flexible and scalable features, providing a wealth of thematic plug-ins, you can use it to build blogs, corporate websites, e-commerce, forums and other types of websites. The image is based on CentOS 7.6 64-bit operating system, has pre-installed Nginx, MariaDB, PHP software.

**Instance bundle** ? General Enterprise

<p><b>5 USD/month</b></p> <p>CPU 2 cores (dedicated) Memory 2GB System disk 30GB SSD Bandwidth 30Mbps Transfer 1024 GB/month</p>	<p><b>7 USD/month</b></p> <p>CPU 2 cores (dedicated) Memory 2GB System disk 50GB SSD Bandwidth 30Mbps Transfer 2048 GB/month</p>	<p><b>9 USD/month</b></p> <p>CPU 2 cores (dedicated) Memory 4GB System disk 60GB SSD Bandwidth 30Mbps Transfer 2560 GB/month</p>	<p><b>11 USD/month</b></p> <p>CPU 2 cores (dedicated) Memory 4GB System disk 80GB SSD Bandwidth 30Mbps Transfer 3072 GB/month</p>
<p><b>16 USD/month</b></p> <p>CPU 2 cores (dedicated) Memory 8GB System disk 90GB SSD Bandwidth 30Mbps Transfer 3584 GB/month</p>	<p><b>22 USD/month</b></p> <p>CPU 2 cores (dedicated) Memory 8GB System disk 100GB SSD Bandwidth 30Mbps Transfer 4096 GB/month</p>		

An independent fixed public IP is assigned for free. The public network outbound traffic beyond the transfer quota will incur additional fees. [View pricing](#)

**Instance name**  The multiple instances created in batch will be suffixed with sequential numbering by default. You can enter 60 characters

**Purchase period** 1 month 2 3 6 months 1 year 2 years 3 years 4 years 5 years More

Auto-renew the device every month when my account has sufficient balance

**Quantity** - 1 +

- **Region:** We recommend you select a region near your target users to reduce the network latency and improve their access speed.

- **Availability zone:** **Randomly assigned** is selected by default. You can select one as well.
- **Image:** Select your desired Lighthouse OS. The CentOS 8.0 system image is selected here as an example.
- **Instance bundle:** Select an instance package according to the required instance configuration (including CPU, memory, system disk, bandwidth, and monthly traffic).
- **Instance name:** Enter a custom instance name. If it is left empty, an "image name + 4-digit random string" will be used as the name by default. When multiple instances are created in a batch, their names will be consecutive with auto-incrementing suffixes. For example, if you enter "LH" as the name and purchase three instances, the three instances are named "LH1", "LH2", and "LH3".
- **Purchase period:** Default to **1 month**.
- **Quantity:** Default to **1**.

3. Click **Buy now**.

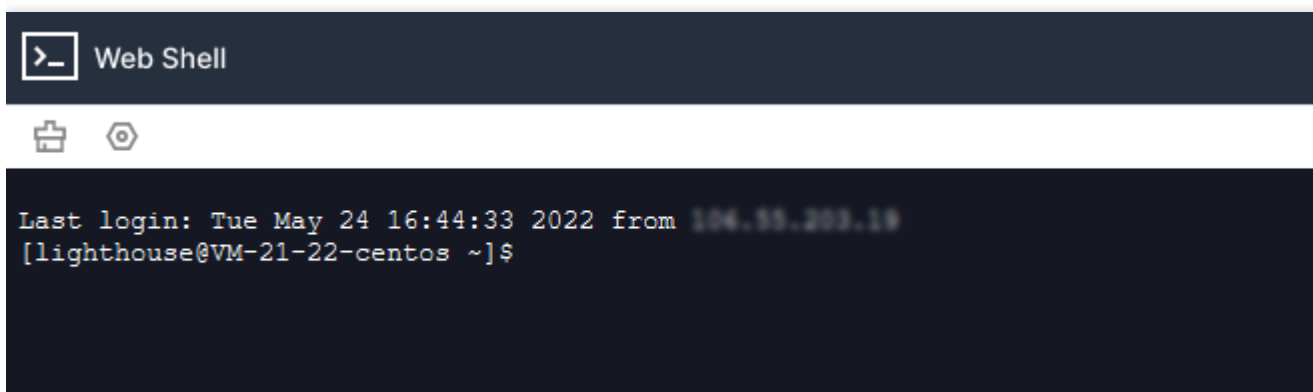
4. Confirm the configuration information is correct, click **Submit order** and make the payment as prompted.

After making the payment, the Lighthouse instance purchase will be successfully completed. Then, you can log in to the instance.

## Step 3. Log in to the Linux Lighthouse instance

Log in to the [Lighthouse console](#), find the newly purchased instance in the instance list, and click **Log in**.

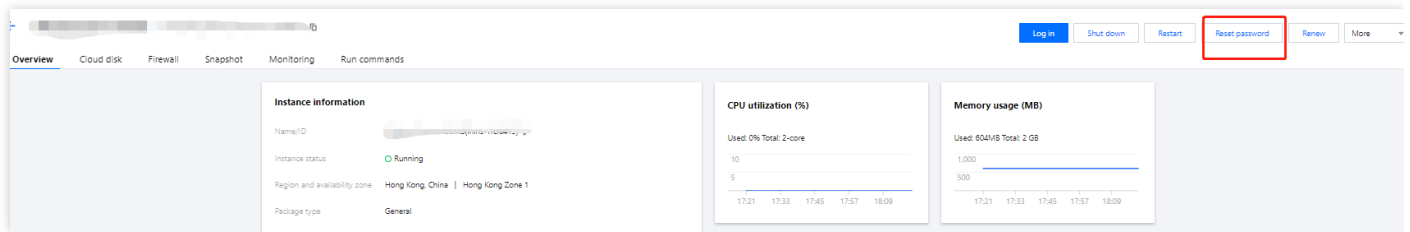
You will log in to the Linux instance through a webshell terminal without entering the password.



## (Optional) Step 4. Reset the Linux Lighthouse instance password

If you want to use an SSH key or a remote login application to connect to the Linux instance, [reset the password](#) or [set a key](#) first. This step takes resetting the password as an example. Perform operations based on your actual needs.

1. In the [Lighthouse console](#), find the newly purchased instance in the instance list and enter its details page.
2. On the instance details page, click **Reset password** in the top-right corner.



3. In the **Reset password** pop-up window, enter and confirm the password as prompted.

#### Note

- The password can be reset only when the instance is shut down. We recommend you shut down the instance first before resetting the password. If you want to reset the password when the instance is running, you should select **Agree to a forced shutdown**.
- If you use the Ubuntu image application to create an instance, the instance will disable login of the `root` user through password by default. If you need to enable it, see [How do I log in to an instance as the root user on Ubuntu?](#)

### Reset password ✕

**1** Set password > **2** Shutdown instance

You've selected 1 instance. [Collapse](#)

Instance name	Instance configuration
Windows Server-dGmS	CPU: 2 core - Memory: 2 GB - System disk: 50 GB

**i** The password can be reset only when the instance is shut down. We recommend manually shutting it down first.

Username  ▼

New password  🔒

Confirm password  🔒

# Creating a Windows Instance

Last updated : 2022-06-16 19:07:34

This document describes how to quickly purchase and use a Lighthouse instance.

## Step 1. Sign up and top up

1. [Sign up for a Tencent Cloud account.](#)

If you already have a Tencent Cloud account, ignore this step.

2. [Top up online.](#)

Lighthouse instances are available through monthly subscription. To make a purchase, you need to top up your account as instructed in [Payment Methods](#).

## Step 2. Purchase a Windows Lighthouse instance

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

2. Click **Create** to enter the Lighthouse purchase page as shown below:

**Tencent Cloud Lighthouse**

**Region** ? **Hong Kong** Singapore Tokyo Silicon Valley Frankfurt Mumbai

Lighthouse instances in different regions cannot communicate with each another over a private network. Selecting the region closest to your end users can minimize access latency and improve download speed. You cannot change the region after creating a Lighthouse instance. [Region and connectivity](#)

**Availability zone** ?  Randomly assigned ?

**Image** **Official image** Individual image

**Application image** System image

<b>WordPress 5.7.1</b>	<b>WooCommerce 6.5.1</b>	<b>SRS Streaming Server 4.4</b>	<b>Typecho 1.1.0</b>
<b>Cloudfre 3.3.1</b>	<b>Matomo 4.9.1</b>	<b>LAMP 7.4.16</b>	<b>Node.js 14.16.1</b>
<b>Theia 1.12.1</b>	<b>Docker 19.03.9</b>	<b>K3s 1.23.6</b>	<b>ASP.NET 4.8</b>

**WordPress 5.7.1**  
WordPress is the world's most popular open source blog and content management site building platform, with simple to use, powerful, flexible and scalable features, providing a wealth of thematic plug-ins, you can use it to build blogs, corporate websites, e-commerce, forums and other types of websites. The image is based on CentOS 7.6 64-bit operating system, has pre-installed Nginx, MariaDB, PHP software.

**Instance bundle** ? **General** Enterprise

<b>5 USD/month</b> CPU 2 cores (dedicated) Memory 2GB System disk 30GB SSD Bandwidth 30Mbps Transfer 1024 GB/month	<b>7 USD/month</b> CPU 2 cores (dedicated) Memory 2GB System disk 50GB SSD Bandwidth 30Mbps Transfer 2048 GB/month	<b>9 USD/month</b> CPU 2 cores (dedicated) Memory 4GB System disk 60GB SSD Bandwidth 30Mbps Transfer 2560 GB/month	<b>11 USD/month</b> CPU 2 cores (dedicated) Memory 4GB System disk 80GB SSD Bandwidth 30Mbps Transfer 3072 GB/month
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An independent fixed public IP is assigned for free. The public network outbound traffic beyond the transfer quota will incur additional fees. [View pricing](#)

**Instance name**  The multiple instances created in batch will be suffixed with sequential numbering by default. You can enter 60 characters

**Purchase period** **1 month** 2 3 6 months 1 year 2 years 3 years 4 years 5 years [More](#)

Auto-renew the device every month when my account has sufficient balance

**Quantity**

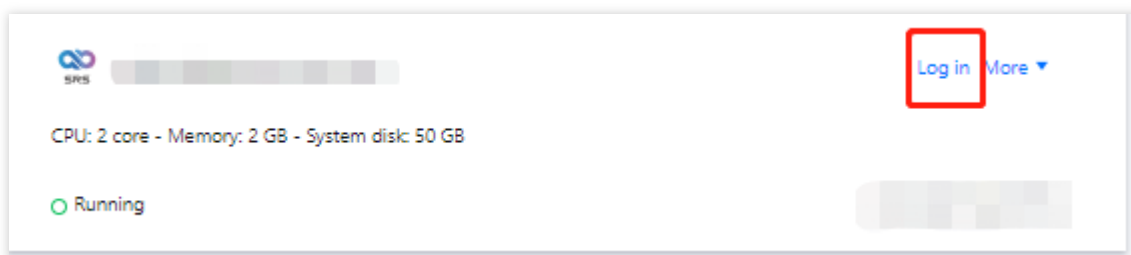
- **Region:** We recommend you select a region near your target users to reduce the network latency and improve their access speed.



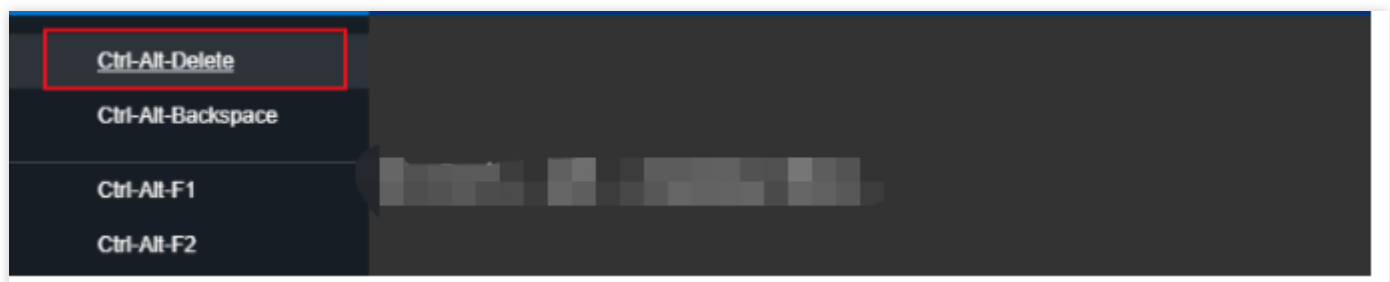
- **Availability zone:** **Randomly assigned** is selected by default. You can select one as well.
  - **Image:** Select an OS as needed. The Windows Server 2022 system image is selected here as an example.
  - **Instance bundle:** Select an instance bundle according to the required instance configuration (including CPU, memory, system disk, bandwidth, and data transfer plan).
  - **Instance name:** Enter a custom instance name. If it is left empty, an "image name + 4-digit random string" will be used as the name by default. When multiple instances are created in a batch, their names will be consecutive with auto-incrementing suffixes. For example, if you enter "LH" as the name and purchase three instances, the three instances are named "LH1", "LH2", and "LH3".
  - *\*Login method:* If you select a Windows image, you can use this option to set the login password of the instance:
    - **Set password:** Set the custom password for instance login.
    - **Random password:** The system sends an automatically generated password to your [Message Center](#).
  - **Purchase period:** Default to **1 month**.
  - **Quantity:** Default to **1**.
3. Click **Buy now**.
  4. Confirm the configuration information is correct, click **Submit order** and make the payment as prompted.

## Step 3. Log in to the Windows Lighthouse instance

1. In the [Lighthouse console](#), find the newly purchased instance in the instance list and click **Log in**.  
You will log in to the Windows instance through a VNC terminal.



2. In the **Log in** pop-up window, select **Send remote command** in the top-left corner and press Ctrl+Alt+Delete to enter the system login page.



3. Enter the login password and press **Enter** to log in to the instance.

In addition, you can use the local RDP tool (such as MSTSC that comes with Windows) to remotely connect to the Windows instance.