

**Cloud Phone Host**

# **Getting Started**

**Issue**            01  
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For vulnerability information, enterprise customers can visit the following web page:

<https://securitybulletin.huawei.com/enterprise/en/security-advisory>

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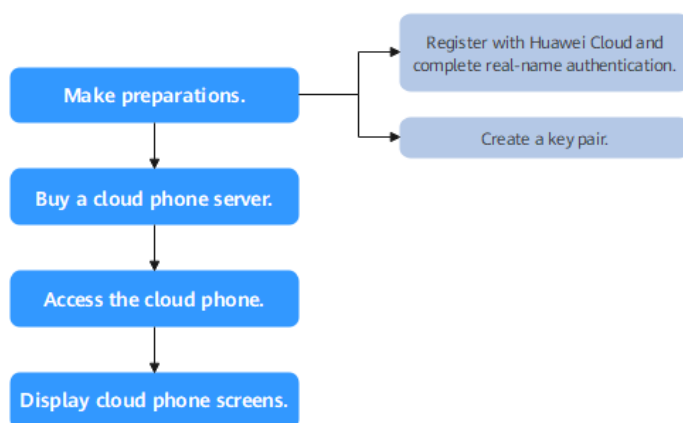
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**1 Purchasing a Cloud Phone Server..... 1**

# 1 Purchasing a Cloud Phone Server

If you want to experience more CPH functions (such as APIs) or deploy real services after learning about the CPH advantages and application scenarios, purchase a cloud phone server. **Figure 1-1** shows how to buy a cloud phone.

**Figure 1-1** Process of buying a cloud phone server



**Table 1-1** Process description

Process	Description
<b>Making Preparations</b>	<ul style="list-style-type: none"> <li>Register with Huawei Cloud and complete real-name authentication.</li> <li>Create a key pair, which is required for authentication during access to the cloud phone.</li> </ul>
<b>Purchasing a Cloud Phone Server</b>	Cloud phones are automatically created by the system after you purchase a server. Parameters such as cloud phone specifications and OS can be set during the server purchase process.

Process	Description
<a href="#">Accessing the Cloud Phone</a>	Use ADB to access the cloud phone with a few clicks.
<a href="#">Displaying the Cloud Phone Screens</a>	After accessing the cloud phone, use a tool to obtain the cloud phone screens. Airtest is recommended.

## Making Preparations

Register with Huawei Cloud and complete real-name authentication. Create a key pair for authentication. Create a key pair, which is required for authentication when you set up an SSH tunnel to access the cloud phone.

**Step 1** Register with Huawei Cloud and complete real-name authentication.

1. Visit <https://www.huaweicloud.com/intl/en-us/> and click **Register**.
2. Complete the registration as prompted. For details, see [Registering with Huawei Cloud](#).

After the registration, the system automatically redirects you to your personal information page.

3. Complete individual or enterprise real-name authentication. For details, see [Individual Real-Name Authentication](#) or [Enterprise Real-Name Authentication](#).

**Step 2** Create a key pair.

### NOTE

If you plan to purchase servers in multiple regions, create a key pair in each region. For more information about regions, see [Regions and AZs](#). The following describes how to create a key pair in the CN-Hong Kong region.

1. Log in to the management console.
2. Under **Computing**, select **Elastic Cloud Server**.
3. In the navigation pane on the left, choose **Key Pair**.
4. On the right side of the page, click **Create Key Pair**.
5. Enter the key pair name and click **OK**.

An automatically allocated key pair name consists of **KeyPair-** and a 4-character random number. Change it to an easy-to-remember one, for example, **KeyPair-xxxx\_cph**.

**Figure 1-2** Create Key Pair

Create Key Pair

Name

- Download the private key pair file. The file name is the specified key pair name with a suffix of .pem. Store the private key file in a secure path. In the displayed **Information** dialog box, click **OK**.

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**CAUTION**

The private key file can be downloaded only once, so keep it secure. When purchasing a server, select the key pair. When establishing an SSH tunnel to the cloud phone, provide the complete path for storing the private key.

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----End

## Purchasing a Cloud Phone Server

Purchase a cloud phone server. The system automatically creates cloud phones on the server.

- In the upper left corner of the CPH console, select the closest region to your location to reduce likelihood of latency issues.
- In the navigation pane on the left, choose **Servers**. In the upper right corner, click **Buy Server**.
- In the **Configure Basic Settings** step, select the server type, instance specifications, and phone image based on the site requirements, and click **Next: Configure Network**.

**NOTE**

Not all parameters are covered here. For details about all the parameters, see [Buying a Cloud Phone \(with Detailed Parameter Description\)](#).

In the **Instance Specifications** area, **Quantity** indicates the number of cloud phones that can be virtualized from a server. For example, if **Quantity** is set to **15**, 15 cloud phones can be virtualized from the server.

- In the **Configure Network** step, retain the default value **Dedicated** for **Bandwidth Type** and click **Next: Configure Advanced Settings**.

Figure 1-3 Configure Network

The screenshot displays the 'Configure Network' configuration interface. It includes the following settings:

- Bandwidth Type:** A dropdown menu with 'Dedicated' selected. Below it, a note states: 'Each server exclusively uses a bandwidth. Dedicated bandwidth is suitable for customers who require stable network for services.'
- Billed By:** A dropdown menu with 'Traffic' selected. Below it, a note states: 'Billed based on the actual outbound traffic, which is not included in the price of the server.'
- Bandwidth Size:** A series of buttons for 5, 100, 200, 300, and Custom. The '300' button is selected. To the right, a note indicates 'Range: 5-300 Mbit/s'.

- In the **Configure Advanced Settings** step, select the key pair created in [Making Preparations](#) and set the user-defined network and application port as required.

**Figure 1-4** Advanced Settings

Name:

If multiple servers are created at a time, the system automatically adds a hyphen followed by a one-digit incremental number to the end of each server name and names the cloud phones on the basis of the server name. For example, if you enter cloudphone, the first server's name will be cloudphone-1, and the name of the first cloud phone on this server will be cloudphone-1-00001.

Key Pair:  [Create Key Pair](#)

I acknowledge that I have the private key file and that I will not be able to log in to my cloud phone server without this file.

Advanced Settings:  User-defined Network  Application Port

User-defined Network: VPC Subnet  ·  ·  ·  /  Recommended CIDR block: 10.0.0.0/8-28 (Select) 172.16.0.0/12-28 (Select) 192.168.0.0/16-28 (Select)

CIDR Block:  ·  ·  ·  /  The subnet CIDR block must be a subset of 172.16.0.0/16. After a subnet is created, its CIDR block cannot be modified.

Application Port:    Internet access [+](#)

You can add a maximum of 5 application ports.

- **Key Pair:** used for authentication when you establish an SSH tunnel to the cloud phone.  
If no key pair has been created, you can click **Create Key Pair** to create a key pair.
  - **User-defined Network:** To customize the network segment where the server is located, select **User-defined Network** for **Advanced Settings**, and enter the VPC subnet and the CIDR block.
  - **Application Port:** By default, only the ADB port is accessible on the Internet. Configure a maximum of five additional ports to be accessible on the Internet.
6. Click **Next: Confirm**. After confirming the configuration, set the required duration and quantity, select **I have read and agree to the OBT Trial Use Agreement**, and click **Buy Now**.
  7. Wait until the server is created successfully.

## Accessing a Cloud Phone

You can use ADB to quickly access your cloud phone on the CPH console.

1. On the **Instances** page, locate the target cloud phone, and choose **More > Access Through ADB** in the **Operation** column.  
The right pane is displayed.



**Figure 1-5** Access Through ADB

**Access Through ADB**

- i 1. Before establishing an SSH tunnel, enable the public network access, and install an SSH client, such as OpenSSH, on your physical device. If a Window OS is operating on your device, you are recommended to use the git built-in SSH tool.
- 2. Make sure that the local port you use to connect the cloud phone is idle.

Name	cph-61cj-1-00060	
Connection Method	ADB over internet	<a href="#">View More Connection Methods</a>
Key File Path	<input type="text" value="C:\Users\Administrator\Downloads\KeyPair-a49c"/>	Example: C:\Users\Administrator\Downloads\KeyPair-a49c.pem
platform-tools	<input type="text" value="C:\Users\Administrator\Downloads\platform-toc"/>	<a href="#">Download ABD</a> Unzip the ADB package to your selected directory, such as C:\Users\Administrator\Downloads\platform-tools.
Local Available Port	<input type="text" value="3345"/>	Port range: 0-65535.You can enter netstat -an at the command line to exclude the ports occupied.

**Perform the following steps in the local command tool:**

1. Establish an SSH tunnel.

```
ssh -L 3345:10.237.0.61:5555 0605767f6f00d5762ff9c001c70e7359@10.246.168.175 -i C:\Users\Administrator\Downloads\KeyPair-a49c.pem -Nf
```

2. Go to the platform-tools directory.

```
cd C:\Users\Administrator\Downloads\platform-tools
```

3. Create an ADB connection.

```
adb connect 127.0.0.1:3345
```

If the ADB connection fails to be created, add an environment variable. The key is ANDROID\_ADB\_SERVER\_PORT, and the value is another local idle port.

4. Check whether the ADB connection is successful.

```
adb devices
```

2. Specify the following parameters:

- **Key File Path:** Enter the local path for storing the private key file of the server, for example, **C:\Users\Administrator\Downloads\KeyPair-a49c.pem**.
- **platform-tools:** Click **Download ADB** and decompress the tool package to the selected directory, for example, **C:\Users\Administrator\Downloads\platform-tools**.
- **Local Available Port:** Enter a local idle port.

Run the **netstat -an** command to check whether the port is idle.

As shown in the following figure, port 6667 is occupied (displayed as **Listening**) by another program, and port 1234 is idle.

```
C:\Users\Administrator\Downloads>netstat -an|findstr 6667
TCP    127.0.0.1:6667      0.0.0.0:0          LISTENING
TCP    [::1]:6667         [::]:0             LISTENING

C:\Users\Administrator\Downloads>netstat -an|findstr 1234

C:\Users\Administrator\Downloads>_
```

After you set the three parameters, the command is automatically filled in the blank area in the lower part of the right panel. You only need to perform operations as prompted to access the cloud phone.

For details about the parameters in the command for establishing an SSH tunnel, see [ADB \(Internet\)](#).

#### NOTE

For details about how to troubleshoot SSH tunnel establishment faults, visit the following websites:

- [What Can I Do If the SSH Tunnel Fails to Be Established When I Access the Cloud Phone over the Public Network?](#)
- [What Can I Do If Message "too open" Is Displayed When I Am Establishing the SSH Tunnel?](#)
- [What Can I Do If Message "Permission denied" Is Displayed When I Am Establishing the SSH Tunnel?](#)
- [What Can I Do If Message "no match mac found" Is Displayed When I Am Establishing the SSH Tunnel?](#)
- [How Do I Keep an SSH Session Uninterrupted?](#)

For details about how to troubleshoot the ADB connection faults, visit the following websites:

- [What Can I Do If Message "unable to connect to :5555" Is Displayed When I Am Using ADB to Access a Cloud Phone?](#)
- [What Can I Do If the ADB Connection Is Interrupted Suddenly?](#)

## Displaying the Cloud Phone Screens

After accessing a cloud phone, you are advised to use Airtest to quickly obtain the cloud phone screens.