

Cloud Phone

Getting Started

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1 Buying a Cloud Phone (Without Detailed Parameter Description)

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

Figure 1-1 Process of buying a cloud phone

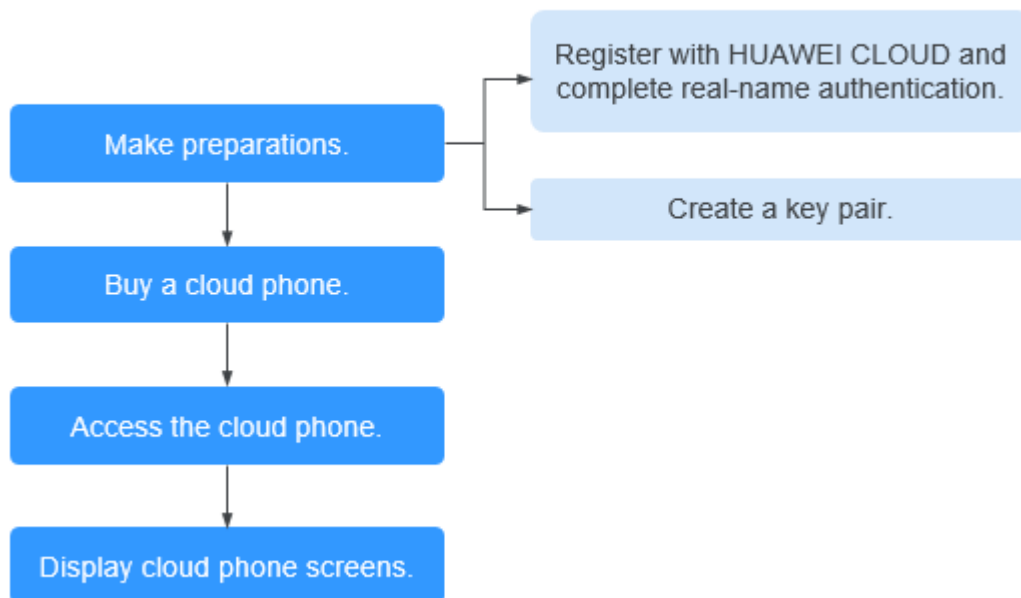


Table 1-1 Process description

Process	Description
Making Preparations	<ul style="list-style-type: none">• Register with HUAWEI CLOUD and complete real-name authentication.• Create a key pair, which is required for authentication during access to the cloud phone.
Buying a Cloud Phone	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.
Accessing the Cloud Phone	Use ADB to access the cloud phone with a few clicks.
Displaying the Cloud Phone Screens	After accessing the cloud phone, you need to 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/en-us> and click **Register**.
2. On the displayed **Register** page, register an account 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 Process](#).

Step 2 Create a key pair.

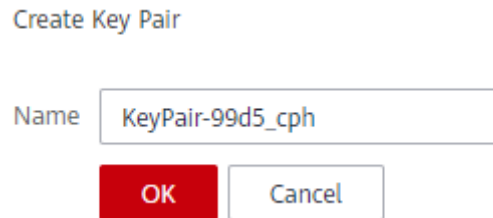
NOTE

If you plan to purchase servers in multiple regions, you need to 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 East-Shanghai1 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



6. 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**.

CAUTION

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

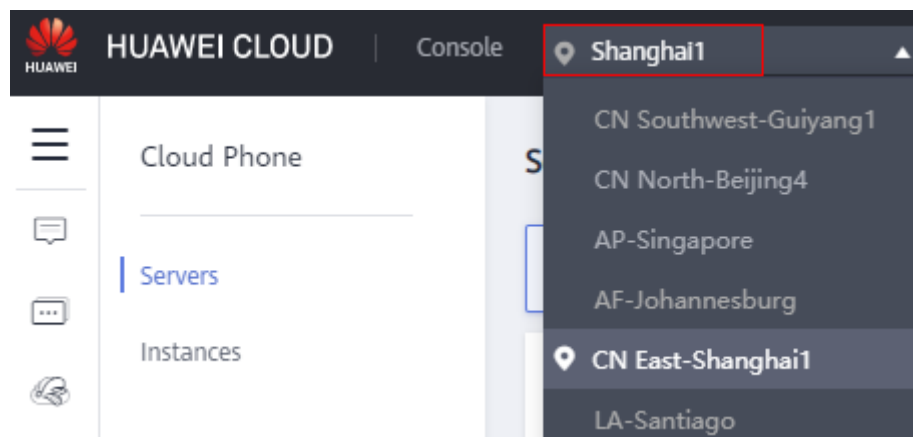
----End

Buying a Cloud Phone

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

1. In the upper left corner of the Cloud Phone console, select the closest region to your location to reduce likelihood of latency issues.

Figure 1-3 Selecting a region



2. 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**.

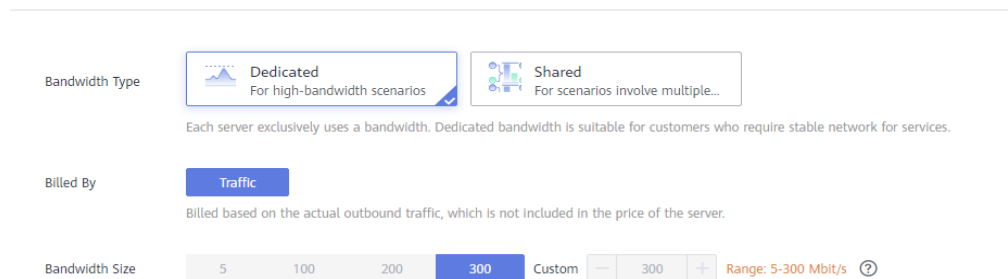
NOTE

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 the value of **Quantity** is **15**, 15 cloud phones can be virtualized from the server.

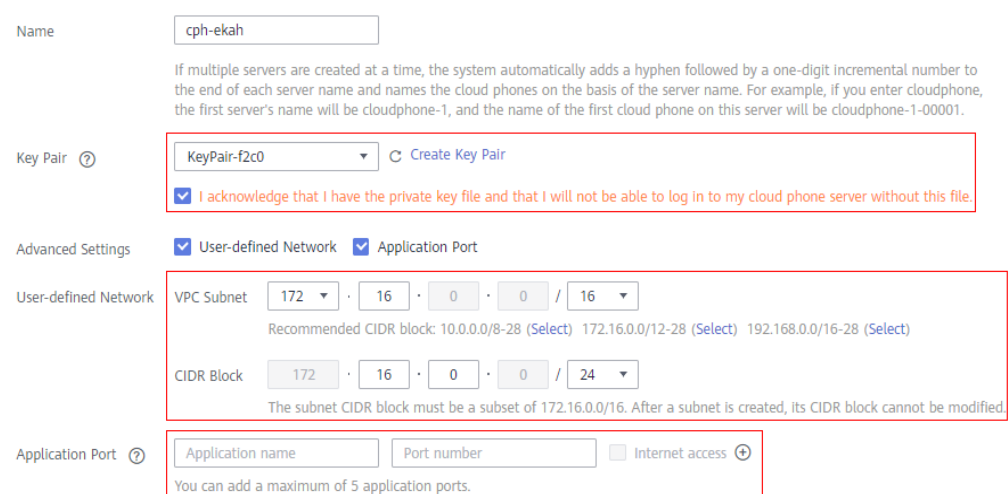
- In the **Configure Network** step, retain the default value **Dedicated** for **Bandwidth Type** and click **Next: Configure Advanced Settings**.

Figure 1-4 Configure Network



- 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 1-5 Advanced Settings



- 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:** If you need 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 Cloud Phone 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 1-6 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 View More Connection Methods
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"/> Download ABD 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 path where your private key file is stored, 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**), 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. For details, see [Using Airtest to Quickly Obtain the Cloud Phone Screens](#).

2 Change History

Released On	Description
2020-10-18	This issue is the fifth official release, which incorporates the following change: Updated the screenshots for network configuration in Buying a Cloud Phone (Without Detailed Parameter Description) .
2020-08-24	This issue is the fourth official release, which incorporates the following change: Added User-defined Network in Buying a Cloud Phone (Without Detailed Parameter Description) .
2020-03-31	This issue is the third official release, which incorporates the following change: Simplified the procedure for accessing a cloud phone in Buying a Cloud Phone (Without Detailed Parameter Description) .
2020-02-18	This issue is the second official release, which incorporates the following change: Adjusted the document structure and optimized the document content.
2019-01-31	This issue is the first official release.