

# Alibaba Cloud

## Web App Service Quick Start

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# Document conventions

Style	Description	Example
 <b>Danger</b>	A danger notice indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	 <b>Danger:</b> Resetting will result in the loss of user configuration data.
 <b>Warning</b>	A warning notice indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	 <b>Warning:</b> Restarting will cause business interruption. About 10 minutes are required to restart an instance.
 <b>Notice</b>	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	 <b>Notice:</b> If the weight is set to 0, the server no longer receives new requests.
 <b>Note</b>	A note indicates supplemental instructions, best practices, tips, and other content.	 <b>Note:</b> You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click <b>Settings</b> > <b>Network</b> > <b>Set network type</b> .
<b>Bold</b>	Bold formatting is used for buttons, menus, page names, and other UI elements.	Click <b>OK</b> .
<code>Courier font</code>	Courier font is used for commands	Run the <code>cd /d C:/window</code> command to enter the Windows system folder.
<i>Italic</i>	Italic formatting is used for parameters and variables.	<code>bae log list --instanceid</code> <i>Instance_ID</i>
[ ] or [a b]	This format is used for an optional value, where only one item can be selected.	<code>ipconfig [-all -t]</code>
{ } or {a b}	This format is used for a required value, where only one item can be selected.	<code>switch {active stand}</code>

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# 1. Deploy applications in the Web+ console

Web+ is a platform-based service that allows you to create and deploy applications with ease. This topic describes how to use the console create and deploy an application that runs in a Tomcat-based application container.

## Prerequisites

Activate related services and authorize roles

## Step 1: Create and deploy an application

Before deploying an application, please follow these steps.

1. Log on to the [Web+ console](#).
2. On the **Overview** page, click **Create** in the upper-right corner of the **Last Updated environments** section.
3. Configure the required settings in the **Basic Information** step, and click **Next** after the configuration is complete.

Setting	Description
Tech Stack Type	The type of the technology stack. You can select <b>Tomcat</b> , <b>Java</b> , <b>Node.js</b> , <b>Go</b> , <b>PHP</b> , <b>Python</b> , <b>ASP.NET Core</b> , <b>Ruby</b> or <b>Native</b> . Each technology stack type is different from one another. This topic takes <b>Tomcat</b> as an example. A Tomcat application container supports deployment packages of the WAR or ZIP type.
Application Name	The name of the application. Enter doc-test.
Application Description (optional)	The description of the application. Enter document testing.

4. In the **Environment Information** step, configure the required environment and deployment package settings. Click **Creation Complete** after the configuration is complete. Then, click **OK** in the **Note** dialog box to complete the creation of the environment.

Setting	Description
Technology Stack Version	The version of the technology stack. You can select a technology stack version from the drop-down list. An option marked with a star icon indicates a recommended technology stack version.
Environment Name	The name of the environment. Enter test-env.
Environment Description	The description of the environment. Enter an environment for document testing.

Setting	Description
Deployment Package Source	You can select <b>Upload Local Application</b> or <b>Use Sample Application</b> . Select <b>Use Sample Application</b> . You can use the deployment package of a default sample application that is provided by Web App Service rather than uploading a deployment package.
Deployment Package Version	Web App Service provides a default deployment package version. However, you can change the default deployment package version.
Version Description	The description of a version for the deployment package. Enter deployment package V1.

5. In the **Creation Complete** step, you can view the progress of the application.
  - Click **View Application** or **Creation Complete** to open the **Application Details** page.
  - Select **Versions** to view a list of environment versions.
  - Select **Logs** to view a list of environment events.

## Step 2: Access the homepage of an application

After creating the application and environment, you can view the public IP address of the application on the **Overview** tab of the Environment Details page in the **Web+ console**.

1. Log on to the **Web+ console**.
2. On the **Overview** page, click **View All** in the upper-right corner of the **Last Updated Environments** section. On the **Applications and Environments** page, click an application ID to open the **Application Details** page.

 **Note** After you open the Application Details page, the **Overview** page is displayed by default. If you are not directed to the **Overview** page, click **Overview** in the left-side navigation pane.


3. Click a deployment name in the Environments section to open the **Overview** tab of the Environment Details page.
4. If an application is **running**, you can click the link next to the **Public IP Address** to go to the homepage of the application.


## Step 3: Delete an application

Before deleting an application, you must release all related environments. After you release these environments, resources that are included in these environments will be released. These resources include Elastic Compute Service (ECS) and Server Load Balancer (SLB) instances. Then, you will no longer be charged for these released resources.

1. **Release a environment :**
  - i. Log to the **Web+ console**.

- ii. On the **Overview** page, click **View All** in the upper-right corner of the **Last Updated Environments** section. On the **Applications and Environments** page, click the ID of an application to be deleted to go to the **Application Details** page.

 **Note** After you go to the Application Details page, the **Overview** page is displayed by default. If you are not directed to the **Overview** page, click **Overview** in the left-side navigation pane.

- iii. Click the  icon in the upper-right corner of an environment card and select **Release** from the drop-down list.
  - iv. In the **Confirm Environment Release** dialog box, enter the name of an environment to be deleted and click **OK**.
  - v. If an application is deployed in multiple environments, repeat the preceding steps to release all environments that run the application.
2. Go to the **Application Details** page. Click **Delete Application** in the **Confirm Application Deletion** dialog box, click **OK** to complete the deletion.

## More information

- For more information about how to deploy an application, see [Deploy applications](#).
- For more information about how to create and deploy applications by using the CLI tool, see [Use the CLI to quickly deploy applications](#).
- For more information about how to manage hosted applications, see [Overview of application details](#).

## 2. Use the CLI to quickly deploy applications

This topic describes how to use the command-line interface (CLI) to create and deploy an application based on a deployment package. The Java sample program provided by Web App Service (Web+) is used as an example.

### Prerequisites

Activate related services and authorize roles

### Step 1: Download and install the command-line tool


In Linux or macOS, run the following command to download and install the CLI:

```
eval "$(curl -s -L https://webplus-cn-shenzhen.oss-cn-shenzhen.aliyuncs.com/cli/install.sh)"
```

### Step 2: Configure the command-line tool

Run the following command to use the AccessKey ID and AccessKey secret of your account to register and configure the CLI, select the region where the environment resides, and then create a folder, for example, named *demo*:

```
wpctl configure --access-key-id "$ALICLOUD_ACCESS_KEY" --access-key-secret "$ALICLOUD_SECRET_KEY" --region "$ALICLOUD_REGION" --profile demo
```

 **Note** For more information about the valid values of the ALICLOUD\_REGION parameter, see the Region ID column in [Supported regions](#).

### Step 3: Clone the Java sample program

Run the following command to clone the sample program provided by Web+ to the root directory of your project.

If you want to use your own Java program, replace the URL of the sample program in the following command with that of your sample program.

```
git clone https://github.com/aliyun/alibabacloud-webplus-demo-java.git && cd alibabacloud-webplus-demo-java
```

### Step 4: Compile a package and create an application


1. After cloning the sample program, run the following command to package the sample program:

```
mvn package
```

2. Run the following command to upload the sample program and create an application and a deployment environment:



```
wpctl env:apply --package target/webplus-demo-java*.jar --label webplusVersion0.1 --category Java --env webplusEnvDemo --app webplusAppDemo --create-on-absent
```

 **Note** In this step, the application name and deployment environment name are specified. The `--create-on-absent` flag specifies that Web+ creates an application or deployment environment if the specified application or deployment environment does not exist.

## Step 5: Access the application

After the application and deployment environment are created, Web+ purchases the configuration resources in the template for you. It takes about 2 minutes to purchase the resources. Then, you can follow these steps to access the application:

1. Run the following command to switch to the created application and deployment environment:

```
wpctl env:use webplusEnvDemo --app webplusAppDemo
```

2. Run the following command to view the event list and verify that the switchover is completed:

```
wpctl env:events
```

3. Run the following command to view the environment information and obtain the application URL:

```
wpctl env:info
```


4. Open the application URL and visit the homepage of the application.

## Step 6: Release the deployment environment

Run the following command to release the deployment environment.

By default, when the deployment environment is released, the Elastic Compute Service (ECS) instances purchased by Web+ for you are also released and no longer billed. In addition, the purchased Server Load Balancer (SLB) instance is released and no longer billed when no traffic or back-end servers need to be monitored.

```
wpctl env:terminate --app webplusAppDemo --env webplusEnvDemo
```

 **Note** Resources in the deployment environment generated by Web+ are billed in Pay-As-You-Go mode. If you still want to keep ECS instances after the deployment environment is released, log on to the [ECS console](#) and change the billing method of the created ECS instances to subscription.

## References

- For more information about CLI-related commands, see [Use CLI commands](#).
- For more information about how to quickly deploy an application in the Web+ console, see [Deploy applications in the Web+ console](#).