

CodeArts

Getting Started

| | |
|--------------|------------|
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1 Guidance

Table 1-1 Service guidance

| Service | Guidance |
|-------------------|--|
| Overall process | <ul style="list-style-type: none">• Setting Up an ECS-based Code Development Pipeline• Setting Up a CCE-based Code Development Pipeline |
| CodeArts Req | <ul style="list-style-type: none">• Creating a Scrum Project and Work Item• Creating an IPD-System Device Project and Work Item |
| CodeArts Repo | <ul style="list-style-type: none">• Developing Java Code in a Scrum Project• Configuring CodeArts Repo Policies by Administrator |
| CodeArts Pipeline | Generating a Software Package and Deploying It on a Host Through CodeArts Pipeline |
| CodeArts Check | Checking Code from CodeArts Repo |
| CodeArts Build | <ul style="list-style-type: none">• Building with Ant and Uploading the Package to a Release Repo• Building with CMake and Uploading the Package to a Release Repo• Building with Maven, Uploading the Software Package, and Pushing the Image |
| CodeArts Artifact | <ul style="list-style-type: none">• Uploading Software Packages to Release Repos• Uploading Components to Maven Repository |
| CodeArts Deploy | Creating a Tomcat Application Using CodeArts Deploy and Deploying It on an ECS |
| CodeArts TestPlan | Executing a Test Plan and Viewing the Report |
| CodeArts PerfTest | CodeArts PerfTest Getting Started |

2 Setting Up an ECS-based Code Development Pipeline

This section describes how to use the built-in code repository of CodeArts to develop, build, and deploy an application.

The deployment is based on Elastic Cloud Server (ECS). This approach is suitable for traditional software packages.

To use container-based deployment, see [Setting Up a CCE-based Code Development Pipeline](#).

Procedure

| Step | Description |
|--|---|
| Preparations | Sign up for a HUAWEI ID, enable Huawei Cloud services, and top up your account. Then buy an ECS. |
| Step 1: Enable CodeArts Free Edition | CodeArts is billed yearly or monthly. Buy a package first before using CodeArts. For the operations in this section, enable the Free Edition instead. |
| Step 2: Create a Project | Projects are foundational for using CodeArts services. Create a project first before proceeding with subsequent operations. |
| Step 3: Create a Code Repository | Use CodeArts Repo to create a repository from the built-in template Java Web Demo . CodeArts Repo helps you manage your project code by version. |
| Step 4: Check Code | Use CodeArts Check to examine your code statically to control quality. |
| Step 5: Build and Archive the Software Package | Use CodeArts Build to compile your source code into object files, package them together with configuration and resource files, and then archive them to the release repository. |

| Step | Description |
|--|---|
| Step 6: Deploy the Build Package | Use CodeArts Deploy to deploy software packages in the release repository to a VM and then run the application. |
| Step 7: Configure a Pipeline | Use CodeArts Pipeline to link code check, build, and deployment tasks for continuous delivery. It runs automatically when you update your code. |
| Releasing Resources | After completing this practice, delete unused pay-per-use resources to prevent extra charges. |

Preparations

- [Sign up for a HUAWEI ID and enable Huawei Cloud services.](#)
- [Purchase an ECS](#) with the following configurations:
 - **Billing Mode:** Select **Pay-per-use**.
 - **CPU Architecture:** Select **x86**.
 - **Specifications:** 2 vCPUs | 4 GiB or above, system disk ≥ 80 GiB
 - **OS:** **Public image > CentOS 7.6**
 - **EIP:** **Auto assign**After completing the purchase, add two inbound rules by referring to [Configuring Security Group Rules](#).
 - Protocol: **TCP**; port: **22**; source: **0.0.0.0/0**
 - Protocol: **TCP**; port: **8080**; source: **0.0.0.0/0**

Step 1: Enable CodeArts Free Edition

Step 1 Go to the [Buy CodeArts Package](#) page.

Step 2 Select **Free**, read and agree to the statement, and click **Subscribe**.

Check the enabling record on the **CodeArts** page.

----End

Step 2: Create a Project

Step 1 Click **go to Workspace** on the CodeArts console.

Step 2 On the CodeArts homepage, click **Create > Create Project**.

Step 3 Select the **Scrum** template.

Step 4 Enter a project name (for example, **Demo**), and click **OK**. Keep the name under 128 characters.

The project is created, and the **Work Items** page is displayed.

----End

Step 3: Create a Code Repository

Step 1 In the project, choose **Code** > **Repo** from the navigation pane.

Step 2 Click **Create Repository**.

Step 3 Select **Template** and click **Next**.

Step 4 Select the **Java Web Demo** template and click **Next**.

Step 5 Enter a repository name (for example, **Web-Demo**), and click **OK**. Start the name with a letter, digit, or underscore (_), and use letters, digits, hyphens (-), underscores (_), and periods (.). Do not end the name with **.git**, **.atom**, or a period.

The repository is created, and its code file list is displayed.

----End

Step 4: Check Code

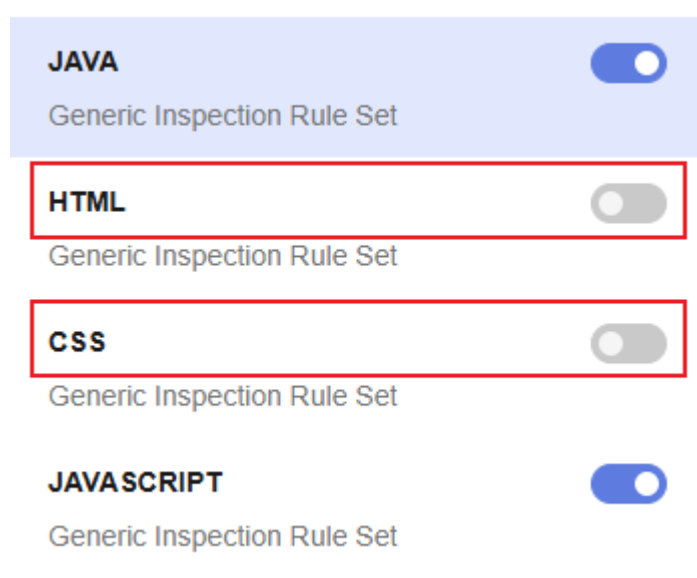
Step 1 In the navigation pane, choose **Code** > **Check**.

The automatically created task **Web-Demo-check** is displayed.

Step 2 Click ******* and choose **Settings**.

Step 3 Choose **Rule Sets**, and toggle off  next to **CSS** and **HTML**.

Figure 2-1 Editing a rule set



Step 4 Click **Start Check** to start the task.

If **Success** is displayed, the task is successful.

If the task fails, rectify the fault by referring to [CodeArts Check FAQs](#).

Step 5 Click the **Issues** tab to view the issue list.


Since there are no critical or major issues, you do not need to modify the code.


----End

Step 5: Build and Archive the Software Package

Step 1 In the navigation pane, choose **CICD > Build**.

The automatically created build task **Web-Demo-build** is displayed.

Step 2 Click  in the row where the task is located to start the task. In the displayed dialog box, confirm the parameter settings and click **OK**.

If  is displayed, the task is successful.

If the task fails, rectify the fault based on the failure step and the error message in logs. For details, see [CodeArts Build FAQs](#).

Step 3 Click the task name to view its details. On the **Build History** tab, find the latest build ID and record it.

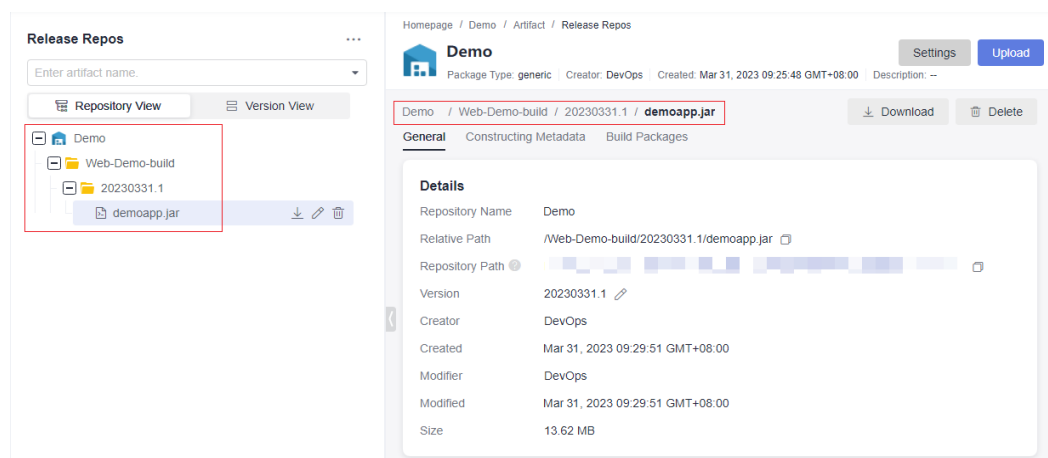
Figure 2-2 Build ID



Step 4 In the navigation pane, choose **Artifact > Release Repos**.

In the repository view, find the repository with the same name as your project, and go to the **Web-Demo-build > Build ID recorded in Step 3** folder to find the generated software package **demoapp.jar**.

Figure 2-3 Viewing the software package



----End

Step 6: Deploy the Build Package

Step 1 Configure the target host.

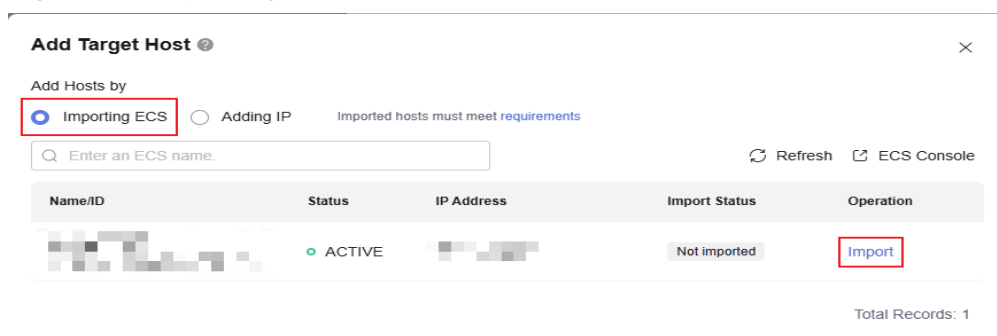
1. In the navigation pane, choose **Settings > General > Basic Resources**.
2. Click **Create Host Cluster**, configure the following information, and click **Save**.

Table 2-1 Creating a host cluster

| Parameter | Example | Description |
|-------------------------|-------------------|---|
| Cluster Name | host-group | The name of the host cluster to create. Enter 3 to 128 characters, including letters, digits, hyphens (-), underscores (_), and periods (.). |
| OS | Linux | The OS of the hosts to add to this cluster. Select Linux or Windows . |
| Host Connection Mode | Direct Connection | The way your target hosts will connect to CodeArts Deploy. Select Direct Connection or Proxy . |
| Execution Resource Pool | Official | A resource pool (or agent pool) is a collection of physical environments where commands are executed to deploy software packages. Choose the official agent pool or a self-hosted agent pool that contains your own servers. |

3. After the system displays a message indicating that the host cluster is created, click **Add Host** on the **Target Hosts** tab, select **Importing ECS**, locate the ECS purchased in [Preparations](#), and click **Import**.

Figure 2-4 Importing an ECS



4. Configure the following information and click **OK**.

Table 2-2 Adding a host

| Parameter | Example | Description |
|-----------|--|--|
| Username | root | The username for logging in to the ECS. By default, it is root for a Linux ECS. |
| Password | Enter the password set when you purchase the ECS in Preparations . | The password for logging in to the ECS. |
| SSH Port | 22 | The default port is 22 . You can also use another one. |

5. Check the host record. If the **Verification Result** column shows successful, the host is added.

If the host fails to be added, rectify the fault based on the failure details. For details, see [Host Management FAQs](#).

Step 2 Choose **CICD > Deploy** from the navigation pane.

The automatically created application **Web-Demo-deploy** is displayed.

Step 3 Click *** and choose **Edit**.

Step 4 Click the **Environment Management** tab and configure the host environment.

1. Click **Create Environment**, configure the following information, and click **Save**.

Table 2-3 Creating an environment

| Parameter | Example | Description |
|---------------|----------|---|
| Environment | demo-env | The name of the environment to create. Enter 3 to 128 characters, including letters, digits, hyphens (-), underscores (_), and periods (.). |
| Resource Type | Host | The resource type in the environment. The default value is Host . |
| OS | Linux | The OS of the hosts to add to this environment. Select Linux or Windows . |

2. When the system displays a message indicating that the creation is successful, click **Import Host** on the **Resources** tab. In the displayed dialog box, select the host cluster and host configured in [Step 1](#) and click **Import**.
3. When the system shows a success message for the import, close the window.

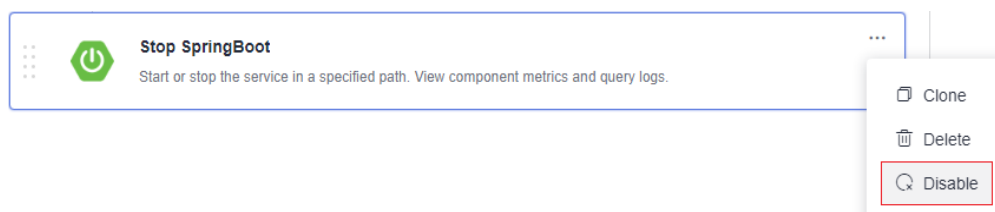
Step 5 Click the **Deployment Actions** tab and configure actions.

- **Install JDK:** Check that the JDK version is **openjdk-1.8.0**.
- **Select a Deployment Source:** Set the parameters based on the following table.

Table 2-4 Deployment source configuration

| Parameter | Example | Description |
|---------------|------------------------------|---|
| Source | Build task | The source of the software package to deploy. Select Artifact or Build task . |
| Build Task | Web-Demo-build | Available only when Source is set to Build task . |
| Download Path | /usr/local/\${package_name}/ | The path on your target host for saving the software package. |


- **Stop SpringBoot:** When you run deployments for the first time, this action will fail because Spring Boot has not yet run on the target host. Disable this action by clicking ******* on the action card and choosing **Disable**.

Figure 2-5 Disabling the "Stop SpringBoot" action


- **Start SpringBoot:** Retain the default settings.
- **Health Test Through URLs:** This action is optional. Disable it for this example.

Step 6 Click the **Parameters** tab and set parameters by referring to the following table.

Table 2-5 Configuration parameters

| Name | Default Value |
|--------------|--|
| host_group | The environment demo-env added in Step 4 |
| package_url | Not required for this example. Click  in the same row to delete it. |
| service_port | 8080 |
| package_name | demoapp |

Step 7 Click **Save & Deploy**. In the displayed dialog box, confirm the parameter settings and click **OK**.

Wait until  **Successful** is displayed on the page. If the deployment fails, rectify the fault based on the failure step and the error message in logs. For details, see [CodeArts Deploy FAQs](#).

Step 8 View the deployment result.

Open a new browser page and enter **http://IP:8080/test**. *IP* indicates the EIP of the ECS purchased in [Preparations](#).

If the following result is displayed, the deployment is successful.

Figure 2-6 Deployment result



----End

Step 7: Configure a Pipeline

Step 1 Choose **CICD > Pipeline** from the navigation pane.

On the **Pipelines** tab, the automatically created pipeline **Web-Demo-pipeline** is displayed.

Step 2 Click ******* and choose **Edit**.

Step 3 On the **Task Orchestration** tab, configure the pipeline.


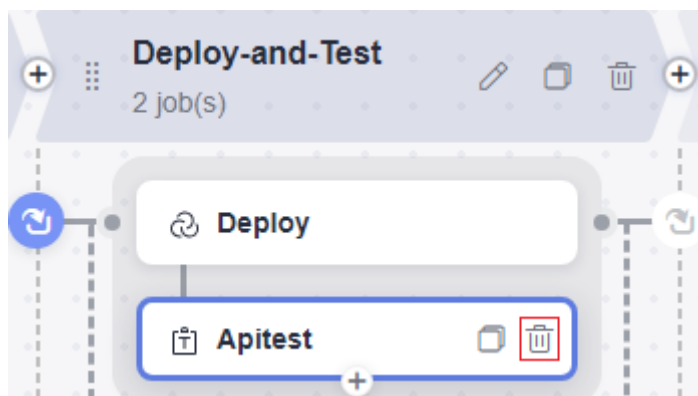
1. API testing is not involved in this example. So remove the API test task from the pipeline.
Click  next to the **Apitest** job. In the displayed dialog box, click **OK**.

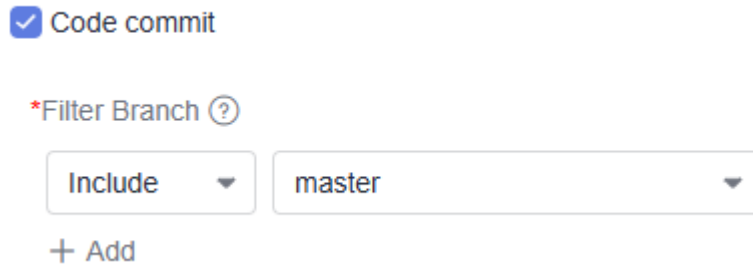
Figure 2-7 Deleting a job



2. Click the **Deploy** job, select the build task **Build**, and keep other parameters the same as those set in [Step 6: Deploy the Build Package](#).

- Step 4** Click the **Execution Plan** tab, select **Code commit**, and select **master** from the branch filter drop-down list.

Figure 2-8 Configuring the execution plan



- Step 5** Click **Save**.

The updated execution plan is displayed.

- Step 6** Go to **Deploy**, edit the deployment actions, and enable **Stop SpringBoot**.


- Step 7** Go to the code repository and search for and open the **TestController.java** file.

Click , change **hello world** to **hello world again**, enter a commit message, and click **OK**.

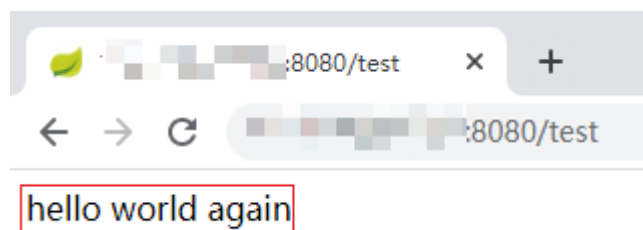
Figure 2-9 Modifying code

```
8 public class TestController {
9
10
11     @RequestMapping
12     public String index() {
13         return "hello world again";
14     }
15
16 }
17
```

- Step 8** Return to the **Pipeline** page. You can see that the pipeline is running.

When  is displayed, access **http://IP:8080/test** again. The following figure shows the access result.

If the pipeline fails, click the cause to view logs. Then rectify the fault by referring to [CodeArts Pipeline FAQs](#).

Figure 2-10 Pipeline execution result

----End

Releasing Resources

WARNING

Released resources cannot be recovered. Exercise caution when performing these operations.

In this example, the pay-per-use resources involved are from ECS.

If you do not need the ECS after the trial, [delete the ECS](#) to release its resources.

Helpful Links

The check, build, deployment, and pipeline tasks used in this section are provided by the repo template. You can create tasks for your own project by referring to the following instructions.

Table 2-6 Task creation instructions

| Service | Method |
|-------------------|---|
| CodeArts Check | See Creating a Task to Check Code from Repo . |
| CodeArts Build | See Creating a Build Task . |
| CodeArts Deploy | See Creating an Application . |
| CodeArts Pipeline | See Creating a Pipeline . |

3

Setting Up a CCE-based Code Development Pipeline

This section describes how to use the built-in code repository of CodeArts to develop, build, and deploy an application.

This chapter uses Cloud Container Engine (CCE) for container-based deployment. To use traditional software package deployment, see [Setting Up an ECS-based Code Development Pipeline](#).

Procedure

| Step | Description |
|---|--|
| Preparations | Sign up for a HUAWEI ID and enable Huawei Cloud services. Top up your account. Buy a Cloud Container Engine (CCE) cluster and create a SoftWare Repository for Container (SWR) organization. |
| Step 1: Enable CodeArts Free Edition | CodeArts is billed yearly or monthly. Buy a package first before using CodeArts. For the operations in this section, enable the Free Edition instead. |
| Step 2: Create a Project | Projects are foundational for using CodeArts services. Create a project first before proceeding with subsequent operations. |
| Step 3: Create a Code Repository | Use CodeArts Repo to create a repository from the built-in template Java Web Demo . CodeArts Repo helps you manage your project code by version. |
| Step 4: Prepare a Dockerfile | Create a Dockerfile. It is a text file that contains the instructions and descriptions required for building an image. For details about Dockerfile, see the Docker official website . |
| Step 5: Build an Image and Push It to SWR | Run a build task to compile the software source code into an image and archive the image to SWR. |

| Step | Description |
|--|--|
| Step 6: Create a Workload | Create a Deployment in CCE to load and run the demo image. |
| Step 7: Deploy the Image | Create an application in CodeArts Deploy to automate image deployment. |
| Step 8: Configure a Pipeline | Configure a pipeline to integrate the code repository, build, and deployment. When a code commit action occurs in the code repository, the pipeline is automatically executed for continuous delivery. |
| Releasing Resources | After completing this practice, delete unused pay-per-use resources to prevent extra charges. |

Preparations

- [Sign up for a HUAWEI ID and enable Huawei Cloud services.](#)
- Buy a CCE cluster that meets the requirements listed in the following table.

Table 3-1 Cluster configuration requirements

| Category | Configuration | Reference |
|----------|---|---|
| Cluster | Pay-per-use recommended <ul style="list-style-type: none">• Type: CCE Standard Cluster• Cluster Version: Select the latest version.• Controller Node Architecture: X86• Network Model: VPC network• Container CIDR Block: Auto select | Buying a CCE Standard/Turbo Cluster |
| Node | Pay-per-use recommended <ul style="list-style-type: none">• Node Type: Elastic Cloud Server (VM)• Specifications: 2 vCPUs 8 GiB or above• Container Engine: Docker• OS: Public image > CentOS 7.6 | Creating a Node |

- Create an organization named **web-demo** in SWR. If this name is already in use, enter another. For details, see [Creating an Organization](#).

Step 1: Enable CodeArts Free Edition

- Step 1** Go to the [Buy CodeArts Package](#) page.
- Step 2** Select **Free**, read and agree to the statement, and click **Subscribe**.
Check the enabling record on the **CodeArts** page.
- End

Step 2: Create a Project

- Step 1** Click **go to Workspace** on the CodeArts console.
- Step 2** On the CodeArts homepage, click **Create > Create Project**.
- Step 3** Select the **Scrum** template.
- Step 4** Enter a project name (for example, **Demo**), and click **OK**. Keep the name under 128 characters.
- The project is created, and the **Work Items** page is displayed.
- End

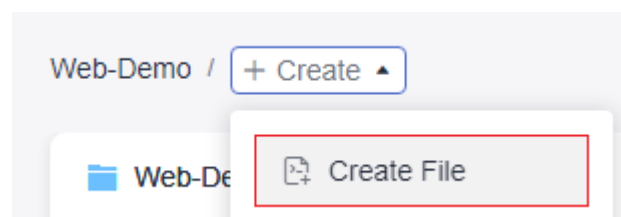
Step 3: Create a Code Repository

- Step 1** In the project, choose **Code > Repo** from the navigation pane.
- Step 2** Click **Create Repository**.
- Step 3** Select **Template** and click **Next**.
- Step 4** Select the **Java Web Demo** template and click **Next**.
- Step 5** Enter a repository name (for example, **Web-Demo**), and click **OK**. Start the name with a letter, digit, or underscore (_), and use letters, digits, hyphens (-), underscores (_), and periods (.). Do not end the name with **.git**, **.atom**, or a period.
- The repository is created, and its code file list is displayed.
- End

Step 4: Prepare a Dockerfile

- Step 1** Click a repository name to go to the repository.
- Step 2** Click **Create** above the file list. Select **Create File** from the drop-down list.

Figure 3-1 Creating a file



Step 3 Enter the file name **Dockerfile** and then enter the following code:

```
FROM openjdk:8-alpine
ADD target /demo
COPY ./target/demoapp.jar /demo
CMD ["java","-jar","/demo/demoapp.jar"]
```

Step 4 Enter a commit message and click **OK**.

----End

Step 5: Build an Image and Push It to SWR

Step 1 In the navigation pane, choose **CICD > Build**.

Step 2 Click **Create Task** and configure the task information.

1. **Basic Information:** Configure the following information and click **Next**.

Table 3-2 Basic information

| Parameter | Example | Description |
|----------------|-----------------|--|
| Name | Web-Demo-docker | Build task name. Use a maximum of 115 characters, including letters, digits, underscores (_), and hyphens (-). |
| Code Source | Repo | Select Repo , GitHub , or other sources. |
| Repository | Web-Demo | The code repository to compile. |
| Default Branch | master | The repository branch to compile. |

2. **Select Template:** Select **Blank Template** and click **OK**.

Step 3 Configure build actions.


1. Click **Add Build Actions**, find **Build with Maven** in the list, and click **Add**.
2. Click **Add Action**. In the action list, find **Build Image and Push to SWR**, and click **Add**.
3. Configure **Build Image and Push to SWR** by referring to the following table. (Retain the default values for the fields not listed in this table.)

Table 3-3 Configuring image information

| Parameter | Example | Description |
|--------------|---|--|
| Organization | Name of the organization created in Preparations | The organization to which the image will belong after being pushed to SWR. |

| Parameter | Example | Description |
|-----------|---------|---|
| Image Tag | v1.0.0 | Image version. Use a maximum of 128 characters, including letters, digits, periods (.), underscores (_), and hyphens (-). Do not start with a period or hyphen. |

Step 4 After the configuration is complete, click **Save and Run**.

If  is displayed, the task is successful. If the task fails, rectify the fault based on the failure step and the error message in logs. For details, see [CodeArts Build FAQs](#).

Step 5 Log in to the SWR console. In the navigation pane, choose **My Images**.

There is a record whose **Name** is **demo** and **Organization** is **web-demo**.

Click the image name to view details. The image version is **v1.0.0**.

Figure 3-2 Viewing images

| | | | |
|------------|---------|--------------|---------------------------------|
| Name | demo | Organization | web-demo |
| Type | Private | Category | Other |
| Tags | 1 | Pulls | 0 |
| Space Used | 82.6 MB | Created | Apr 01, 2023 19:30:39 GMT+08:00 |

| | | | | | | | |
|--------------------------|-------------|-----------|-----------------------------|---------|----------|-----------|-------------------------|
| Tags | Description | Pull/Push | Permissions | Sharing | Triggers | Retention | Synchronization Records |
| Sync | Delete | | | | | | |
| <input type="checkbox"/> | Tag | Size | Image Pull Command | | | | |
| <input type="checkbox"/> | v1.0.0 | 82.6 MB | docker pull swr. [redacted] | | | | |

----End

Step 6: Create a Workload

Step 1 Log in to the CCE console and click the cluster purchased in [Preparations](#) to go to the details page.

Step 2 Choose **Workloads** in the navigation pane, and click **Create Workload**.

Step 3 Complete the configurations by referring to the following table and click **Create Workload**.

For details about the parameters, see [Creating a Deployment](#).

Table 3-4 Creating workload

| Category | Parameter | Example |
|--------------------|---------------|---|
| Basic Info | Workload Type | Deployment |
| | Workload Name | web-demo |
| | Pods | 1 |
| Container Settings | Image Name | Click Select Image . In the dialog box that is displayed, select demo and click OK . |
| | Pull Policy | Always |
| | Image Tag | v1.0.0 |
| Advanced Settings | Upgrade Mode | Replace upgrade |

Step 4 When the creation is complete, click **View Workload Details** to go back to the details page. A record is displayed on the **Pods** tab.

If the pod status is **Running**, click the **Access Mode** tab, click **Create Service**, configure the service by referring to the following table, and click **OK**.

For details about the parameters, see [Creating a LoadBalancer Service](#).

If the pod status is abnormal, rectify the fault by referring to [Workload Abnormalities](#).

Table 3-5 Configuring access mode

| Parameter | Example |
|------------------|--|
| Service Name | web-demo |
| Service Type | LoadBalancer |
| Service Affinity | Cluster level |
| Load Balancer | 1. Choose Shared > Auto create . 2. Configure the following parameters: <ul style="list-style-type: none">– Instance Name: web-demo-test– EIP: Auto create |
| Port | <ul style="list-style-type: none">• Protocol: TCP• Container Port: 8080• Service Port: 8080 |

After the creation is successful, a new record is displayed in the list.



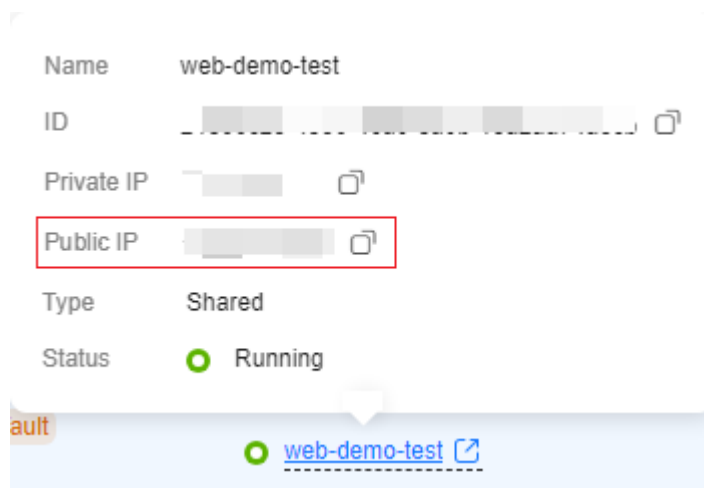
- Step 5** Refresh the page, and check the access mode list. When  [web-demo-test](#)  is displayed, hover over the load balancer name in the **Service Type** column, and copy the public IP address in the pop-up window.

Figure 3-3 Copying the access address



- Step 6** Open a new browser page and enter **http://IP:8080/test** in the address box. Replace *IP* with the public IP address copied in [Step 5](#).

If the following information is displayed, the workload is running properly.

Figure 3-4 Deployment result



-----End


Step 7: Deploy the Image

- Step 1** Return to the CodeArts page, and choose **CICD > Deploy** from the navigation pane.
1. Click **Create Application**, enter an application name (for example, **web-demo-k8s**), and click **Next**. The name can contain 3–128 characters, including letters, digits, hyphens (-), and underscores (_).
 2. Select **Blank Template** and click **OK**.
- Step 2** Search for and add action **Kubernetes Quick Deployment (CCE cluster)**. Configure this action by referring to the following table.

Table 3-6 Configuring deployment actions

| Parameter | Example | Description |
|--------------|--|--|
| Region | The region where the cluster purchased in Preparations is located | The region of the target cluster. |
| Cluster Name | The name of the cluster purchased in Preparations . | The name of the target cluster. |
| Namespace | default | The namespace of the target cluster. |
| Workload | web-demo | The workload to deploy. |
| Container | The container name displayed in the Container Settings area involved in Step 6: Create a Workload | The name of the container to deploy the workload in. |

Step 3 Click **Save & Deploy**.

If  **Successful** is displayed, the test is successful. If the deployment fails, rectify the fault based on the failure step and the error message in logs. For details, see [CodeArts Deploy FAQs](#).

----End

Step 8: Configure a Pipeline

Step 1 Choose **CICD > Pipeline** from the navigation pane.

Step 2 Click **Create Pipeline** and configure the pipeline.

1. **Basic Information:** Configure the following information and click **Next**.

Table 3-7 Pipeline basic information

| Parameter | Example | Description |
|-----------------|-------------------|--|
| Name | pipeline-web-demo | Pipeline name. Use a maximum of 128 characters, including letters, digits, hyphens (-), and underscores (_). |
| Pipeline Source | Repo | The code source of the pipeline. Select Repo , Git , or other sources. |
| Repository | Web-Demo | The code repository to be associated with the pipeline. |
| Default Branch | master | The repository branch to be associated with the pipeline. |

2. **Template:** Select **Blank Template** and click **OK**.

Step 3 Configure the workflow.


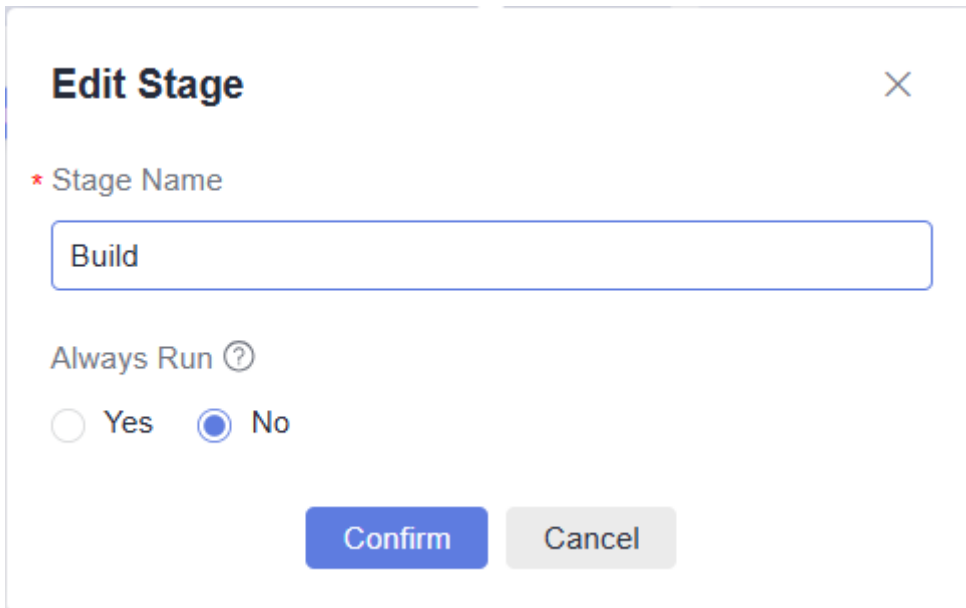
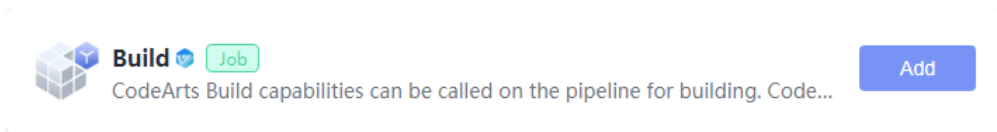
1. Click  next to **Stage_1**. In the **Edit Stage** dialog box, enter a stage name and click **Confirm**. The name can contain 1–128 characters, including letters, digits, spaces, and special characters (-_;;:/()). Do not start or end with a space.

Figure 3-5 Editing the stage name

The image shows a dialog box titled "Edit Stage" with a close button (X) in the top right corner. Inside the dialog, there is a label "Stage Name" with a red asterisk. Below it is a text input field containing the word "Build". Underneath the input field is the label "Always Run" followed by a question mark icon. Below this are two radio buttons: "Yes" and "No". The "No" radio button is selected. At the bottom of the dialog are two buttons: "Confirm" (blue) and "Cancel" (gray).

2. Click **Parallel Job**, and select **From empty**. The job creation window is displayed on the right.
3. Locate **Build** in the list and click **Add**.

Figure 3-6 Adding a job

The image shows a job creation window. It features a "Build" icon (a blue cube) and a "Job" label in a green box. Below these, there is a text description: "CodeArts Build capabilities can be called on the pipeline for building. Code...". To the right of this text is a blue button labeled "Add".

4. Configure the job information by referring to the following table and click **OK**.

Table 3-8 Editing a build job

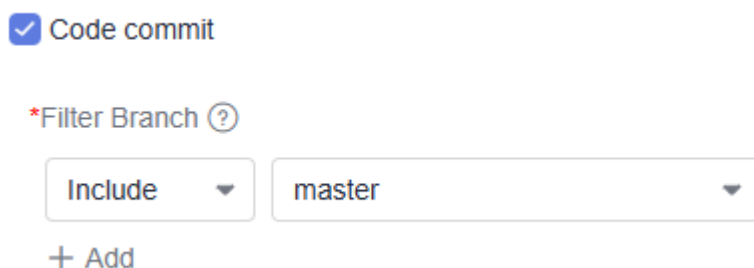
| Parameter | Example | Description |
|-----------|---------------------------|--|
| Name | Retain the default value. | Job name. Use 1–128 characters, including letters, digits, spaces, and special characters (-_;;:/()). Do not start or end the name with a space. |

| Parameter | Example | Description |
|-------------|-----------------|---|
| Select Task | Web-Demo-docker | Select a build task whose code source is pipeline or the same repository as the pipeline you are configuring. |
| Repository | Web-Demo | Select the code repository associated with the build task. |

- Click **Stage** and change the stage name to **Deploy**. The new stage is displayed.
- Click **New Job** and add the **Deploy** extension.
- Select the **web-demo-k8s** task (or application), associate the build task set in [Step 3.4](#), and click **OK**.

Step 4 Click the **Execution Plan** tab, select **Code commit**, and select **master** from the branch filter drop-down list.

Figure 3-7 Configuring the execution plan



Step 5 Click **Save**.

The updated execution plan is displayed.


Step 6 Go to the code repository and search for and open the **TestController.java** file.

Click , change **hello world** to **hello world again**, enter a commit message, and click **OK**.

Figure 3-8 Modifying code

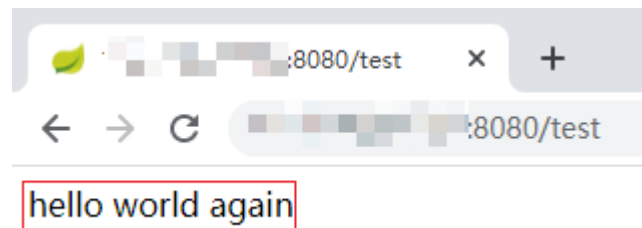
```
8 public class TestController {
9
10
11     @RequestMapping
12     public String index() {
13         return "hello world again";
14     }
15
16 }
17
```


Step 7 Return to the **Pipeline** page. You can see that the pipeline is running.

When  is displayed, access **http://IP:8080/test** again. The following figure shows the access result.

If the pipeline fails, click the cause to view logs. Then rectify the fault by referring to [CodeArts Pipeline FAQs](#).

Figure 3-9 Pipeline execution result



----End

Releasing Resources

WARNING

Released resources cannot be recovered. Exercise caution when performing these operations.

In this example, the pay-per-use resources involved are from CCE.

If you do not need CCE after the trial, [delete the pay-per-use cluster](#) to release its resources.