

CodeArts

User Guide

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Contents

1 CodeArts Console.....	1
1.1 Purchasing CodeArts.....	1
1.2 Console Permission Management.....	3
1.2.1 CodeArts Console Permission Description.....	3
1.2.2 Creating a User and Granting CodeArts Permissions.....	10
1.2.3 CodeArts Custom Policies.....	11
1.3 Enterprise Account Authorization.....	12
2 CodeArts Homepage.....	14
2.1 Homepage Overview.....	14
2.2 Workspace.....	16
2.3 Setting an Alias.....	17
2.4 This Account Settings.....	18
2.4.1 Overview.....	18
2.4.2 Notifications.....	18
2.5 All Account Settings.....	19
2.5.1 Overview.....	19
2.5.2 General.....	20
2.5.2.1 Project Creators.....	21
2.5.2.2 Managing Projects and Members.....	21
2.5.2.3 Managing Global Settings.....	22
2.5.3 Agent Pools.....	23
2.5.3.1 Creating an Agent Pool.....	23
2.5.3.2 Creating an Agent.....	24
2.5.3.3 Managing Agent Pools.....	27

1 CodeArts Console

1.1 Purchasing CodeArts

Prerequisites

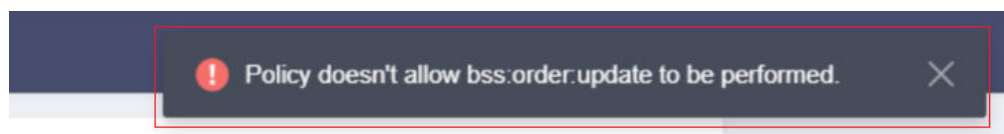
CodeArts uses yearly/monthly billing. To purchase CodeArts, you must have any of the following accounts:

- Tenant account
- IAM user who has the **Tenant Administrator** permission
- IAM user who has the **DevCloud Console FullAccess** and **BSS Administrator** permissions
- IAM user who has the **DevCloud Console FullAccess** and **BSS Finance** permissions
- IAM user who has the **DevCloud Console FullAccess** and **BSS Operator** permissions
- IAM user who has custom permissions, including all permissions of DevCloud Console FullAccess and fine-grained permissions **bss:order:view**, **bss:order:pay**, and **bss:order:update**

NOTE

If you are an IAM user but do not have the preceding permissions, you may receive the following error message when trying to submit an order. Contact the account owner to grant you the **DevCloud Console FullAccess** and **BSS Administrator** permissions.

Figure 1-1 Error message



Purchasing a CodeArts Package

CodeArts uses yearly/monthly billing, and provides the free, basic, professional, and enterprise edition packages to meet the requirements of different user scales. For details about these packages, see [Package Overview](#).

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

Step 2 Set the region, edition, number of users, required duration, and auto-renewal, agree to the agreement, and click **Next**.

NOTE

- You are advised to select the nearest region based on your physical region where your services are located to reduce network latency. The purchased package takes effect only in the corresponding region and cannot be used across regions.
- The number of users and required duration in the free edition are fixed and cannot be changed.

Step 3 Confirm the order content. If you need to modify the order content, click **Previous**. If the content is correct, click **Pay**.

Step 4 Pay for the order as prompted.

----End

Changing CodeArts Package Specifications

You can change the specifications of your CodeArts package if needed. For details about the impact, see [Impact on Billing After Specification Change](#).

Step 1 Log in to the CodeArts console.

Step 2 Find the CodeArts package and click **Modify** in the **Operation** column.

Step 3 Change the edition, number of users, and type, agree to the agreement, and click **Next**.

NOTE

- The free edition is free of charge, with a fixed user quantity. You can only change the edition.
- For renewal change, specify the renewal duration.

Step 4 Confirm the order content. If you need to modify the order content, click **Previous**. If the content is correct, click **Pay**.

Step 5 Pay for the order as prompted.

----End

Purchasing a Value-added Feature

CodeArts provides value-added features such as CodeCheck enhanced package. For details, see [Value-added Features](#).

Step 1 Go to the [CodeArts value-added feature purchase](#) page.

Step 2 Set the region, product, required duration, and auto-renewal, agree to the agreement, and click **Next**.

 NOTE

- To purchase the CodeCheck enhanced package, select a region where you have purchased CodeArts professional or enterprise edition.

Step 3 Confirm the order content. If you need to modify the order content, click **Previous**. If the content is correct, click **Pay**.

Step 4 Pay for the order as prompted.

----End

1.2 Console Permission Management

1.2.1 CodeArts Console Permission Description

If you need to assign different permissions to employees in your enterprise to access your purchased CodeArts resources, Identity and Access Management (IAM) is a good choice for fine-grained permissions management. IAM provides identity authentication, permissions management, and access control, helping you secure access to your resources.

With IAM, you can use your account to create IAM users, and assign permissions to the users to control their access to specific resources. For example, some software developers in your enterprise need to use CodeArts resources but should not be allowed to perform any other high-risk operations, such as buying CodeArts resources. In this scenario, you can create IAM users for the software developers and grant them only the permissions required for viewing CodeArts resources.

If you do not require individual IAM users, skip this chapter.

IAM can be used free of charge. You pay only for the resources in your account. For more information about IAM, see [IAM Service Overview](#).

CodeArts Console Permissions

By default, new IAM users do not have any permissions. You need to add them to one or more groups, and then add permissions policies or roles to these groups. The users inherit permissions from their groups and can then perform specified operations on cloud services.

CodeArts is a project-level service deployed and accessed in specific physical regions. To assign permissions to a user group, specify the scope as region-specific projects and select projects for the permissions to take effect. If **All projects** is selected, the permissions will take effect for the user group in all region-specific projects. When accessing CodeArts, the users need to switch to a region where they have been authorized.

CodeArts uses policies for fine-grained authorization.

- **Policies:** a type of fine-grained authorization mechanism that defines permissions required to perform operations on specific cloud resources under certain conditions. This mechanism allows for more flexible authorization. Policies allow you to meet requirements for more secure access control. For

example, you can grant CodeArts users only the permissions for performing specific operations on the CodeArts console.

Table 1-1 lists all system permissions of CodeArts.

Table 1-1 System permissions of CodeArts

Policy	Description	Type
DevCloud Console FullAccess	Full permissions for the CodeArts console. Users with these permissions can buy CodeArts resources. NOTE If an IAM user wants to purchase CodeArts, they must also have one of the BSS Administrator , BSS Finance , and BSS Operator permissions in addition to this permission.	System-defined policy
DevCloud Console ReadOnlyAccess	Full permissions for the CodeArts console. Users with these permissions can only view the usage of CodeArts resources.	System-defined policy

Table 1-2 lists the common operations supported by each system-defined policy of CodeArts. Select a proper policy as required.

Table 1-2 Common operations and system permissions

Console Operation	DevCloud Console FullAccess	DevCloud Console ReadOnlyAccess	Description
Check CodeArts Req resource usage	√	√	-
Subscribe to CodeArts Req with pay-per-use billing	√	×	Available soon
Unsubscribe from CodeArts Req with pay-per-use billing	√	×	Available soon
View CodeArts Req subscription records	√	√	Available soon
View CodeArts Req resources	√	√	-

Console Operation	DevCloud Console FullAccess	DevCloud Console ReadOnlyAccess	Description
Check CodeArts Repo resource usage	√	√	-
Subscribe to CodeArts Repo with pay-per-use billing	√	×	Available soon
Unsubscribe from CodeArts Repo with pay-per-use billing	√	×	Available soon
View CodeArts Repo subscription records	√	√	Available soon
View CodeArts Repo resources	√	√	-
Check CodeArts Check resource usage	√	√	-
Subscribe to CodeArts Check with pay-per-use billing	√	×	Available soon
Unsubscribe from CodeArts Check with pay-per-use billing	√	×	Available soon
View CodeArts Check subscription records	√	√	Available soon
View CodeArts Check resources	√	√	-
Check CodeArts Build resource usage	√	√	-
Subscribe to CodeArts Build with pay-per-use billing	√	×	Available soon

Console Operation	DevCloud Console FullAccess	DevCloud Console ReadOnlyAccess	Description
Unsubscribe from CodeArts Build with pay-per-use billing	√	×	Available soon
View CodeArts Build subscription records	√	√	Available soon
View CodeArts Build resources	√	√	-
Check CodeArts TestPlan – Test Management resource usage	√	√	-
Subscribe to CodeArts TestPlan – Test Management with pay-per-use billing	√	×	Available soon
Unsubscribe from CodeArts TestPlan – Test Management with pay-per-use billing	√	×	Available soon
View CodeArts TestPlan – Test Management subscription records	√	√	Available soon
View CodeArts TestPlan – Test Management resources	√	√	-
Subscribe to CodeArts TestPlan – APITest with pay-per-use billing	√	×	Available soon

Console Operation	DevCloud Console FullAccess	DevCloud Console ReadOnlyAccess	Description
Unsubscribe from CodeArts TestPlan – APITest with pay-per-use billing	√	×	Available soon
View CodeArts TestPlan – APITest subscription records	√	√	Available soon
View CodeArts TestPlan – APITest resources	√	√	-
Check CodeArts TestPlan – APITest resource usage	√	√	-
Check CodeArts Artifact resource usage	√	√	-
Subscribe to CodeArts Artifact with pay-per-use billing	√	×	Available soon
Unsubscribe from CodeArts Artifact with pay-per-use billing	√	×	Available soon
View CodeArts Artifact subscription records	√	√	Available soon
View CodeArts Artifact resources	√	√	-
Check CodeArts IDE Online resource usage	√	√	Available soon
Subscribe to CodeArts IDE Online with pay-per-use billing	√	×	Available soon

Console Operation	DevCloud Console FullAccess	DevCloud Console ReadOnlyAccess	Description
Unsubscribe from CodeArts IDE Online with pay-per-use billing	√	×	Available soon
View CodeArts IDE Online subscription records	√	√	Available soon
View CodeArts IDE Online resources	√	√	Available soon
Check CodeArts Classroom resource usage	√	√	Available soon
Subscribe to CodeArts Classroom with pay-per-use billing	√	×	Available soon
Unsubscribe from CodeArts Classroom with pay-per-use billing	√	×	Available soon
View CodeArts Classroom subscription records	√	√	Available soon
View CodeArts Classroom resources	√	√	Available soon
Buy the Agile and DevOps Training service	√	×	Available soon
View resources of the Agile and DevOps Training service	√	√	Available soon
Authorize an enterprise account	√	×	-

Console Operation	DevCloud Console FullAccess	DevCloud Console ReadOnlyAccess	Description
Cancel the authorization granted to an enterprise account	√	×	-
Accept or reject authorization to an enterprise account	√	×	-
View the authorization list	√	√	-
Purchase a pay-per-use package on the console	√	×	Available soon
View details of a pay-per-use package on the console	√	√	Available soon
Subscribe to a pay-per-use package	√	×	Available soon
Unsubscribe from a pay-per-use package	√	×	Available soon
View pay-per-use package subscription records	√	√	Available soon
Buy a CodeArts package	√	×	-
Change CodeArts package specifications	√	×	-
View CodeArts package resource details	√	√	-

The service names in permission policies may differ from those on the console. The mapping relationship between these names is shown in [Table 1-3](#).

Table 1-3 Service name mapping

Service Name in Permission Policies	Service Name on the Console
DevCloud	CodeArts
ProjectMan	CodeArts Req
CodeHub	CodeArts Repo
CodeCheck	CodeArts Check
CloudBuild	CodeArts Build
CloudDeploy	CodeArts Deploy
CloudArtifact	CodeArts Artifact
CloudTest	CodeArts TestPlan
CloudPipeline	CodeArts Pipeline
CloudIDE	CodeArts IDE Online

1.2.2 Creating a User and Granting CodeArts Permissions

You can use [Identity and Access Management \(IAM\)](#) to implement fine-grained permissions control for your CodeArts console. With IAM, you can:

- Use your account to create IAM users for employees based on the organizational structure of your enterprise. Each IAM user has their own security credentials for accessing CodeArts resources.
- Assign only the permissions required for users to perform a specific task.

If your account does not require individual IAM users, skip this section.

This section describes the procedure for granting permissions (see [Figure 1-2](#)).

Prerequisites

Learn about the permissions supported by CodeArts and choose permissions according to your requirements. For the permissions of other CodeArts services, see [System Permissions](#).

Process

Figure 1-2 Process for granting CodeArts console permissions



1. **Create a user group and assign permissions.**
Create a user group on the IAM console, and attach the **DevCloud Console ReadOnlyAccess** policy to the group.
2. **Create an IAM user and add it to a group.**
Create a user on the IAM console and add the user to the group created in 1.
3. **Log in** and verify permissions.
Log in to the console as the created user and switch to the region for which the user is authorized to verify permissions.
Choose **CodeArts** in **Service List**, and then choose **Enterprise Account Authorization** in the navigation pane. If a message is displayed indicating that you have insufficient permissions to access the page, the **DevCloud Console ReadOnlyAccess** policy has already taken effect.

1.2.3 CodeArts Custom Policies

You can customize policies to supplement system-defined policies of CodeArts.

You can create custom policies using one of the following methods:

- Visual editor: Select cloud services, actions, resources, and request conditions. You do not need to have knowledge of the policy syntax.
- JSON: Create a policy in the JSON format from scratch or based on an existing policy.

For details, see [Creating a Custom Policy](#). This section contains examples of common custom policies in CodeArts.

CodeArts Custom Policy Examples

- Example 1: Authorize users to purchase CodeArts on the console

```
{
  "Version": "1.1",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "devcloud:monthlyPackage:subscribe"
      ]
    }
  ]
}
```

- Example 2: Define actions for multiple services in a policy

A custom policy can contain the actions of multiple services that are of the global or project-level type. The following is an example policy containing actions of multiple services:

```
{
  "Version": "1.1",
  "Statement": [
    {
      "Action": [
        "devcloud:*:listResourceDetail",
        "ecs:cloudServers:delete"
      ],
      "Effect": "Allow"
    }
  ]
}
```

1.3 Enterprise Account Authorization

Authorize other enterprise accounts to use the resources in your enterprise account. You can grant and cancel the authorization as required.

An enterprise account is essentially a tenant account, and users in the account are referred to as IAM users.

For more information, see [Relationship Between an Account and Its IAM Users](#).

Authorizing an Enterprise Account

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

Step 2 Choose **Enterprise Account Authorization** in the navigation pane on the left, and click **Authorize Enterprise Account**.

Step 3 Enter the ID of the target enterprise account, and click **Authorize**.


NOTE

- The enterprise account ID can be obtained from the [My Credentials](#) page of the enterprise to be authorized.
- The authorized account must be from the same site as your account.

Step 4 View the new record after the enterprise account is successfully authorized.

----End

Accepting Authorization of Another Enterprise Account

If The current enterprise account can automatically accept authorization. To enable manual authorization acceptance, click  (disabled) is displayed, authorizations of other enterprise accounts are automatically accepted.

When this option is enabled, you need to manually accept an authorization as follows:

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

Step 2 Choose **Enterprise Account Authorization** from the navigation pane on the left, and click the **Received Authorizations** tab. The received authorization is displayed in the list, pending to accept.

Step 3 Accept or reject the authorization as you need.

- Accept: In the dialog box that is displayed, click **OK**. The status changes to **Enabled**.

For the enterprise that grants the authorization, the status of the corresponding record on the **Granted Authorizations** tab page is also updated to **Enabled**.

- Reject: The status changes to **Rejected**.

For the enterprise that grants the authorization, the status of the corresponding record on the **Granted Authorizations** tab page is also updated to **Rejected**.

----End

NOTE

An invited account does not need to subscribe to CodeArts. After accepting an invitation, the invited account is added to the inviting account's projects and can perform operations as a project member.


2 CodeArts Homepage

2.1 Homepage Overview

CodeArts provides an entry for each subservice. You can manage your projects, and configure personal and tenant settings.

Login

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

Step 2 Click  and select a region.



Step 3 Click **Access Service**.





----End

Navigation Bar

CodeArts provides multiple choices of themes and layouts. This section uses "Infinite and Classics" as an example to introduce the navigation bar.


Table 2-1 Navigation bar on the homepage

Menu	Description
	The entry for each service so that you can go to their homepage.
Console	The console is displayed. You can select other products as required.
	You can click the drop-down list to switch the region. Data and resources are isolated between regions. Use your resources in the region where you purchased it.
Homepage	Go to the CodeArts homepage.

Menu	Description
Workspace	View the work items under your account. For details, see Workspace .
Services	Provides an entry for each service of CodeArts so that you can go to their homepage.
	View notification messages about operations on each service.
	View the user guide of each service.
	Summary of your to-do items.
	Provides alias , preference, personal , and tenant settings.



Projects

All projects in which you are involved are displayed. The project list displays followed, all, and archived projects on different tabs.

- Followed projects: projects marked with 
- All projects: all projects in which you have joined
- Archived projects: projects that have been archived on the **Settings > General > Basic Information** page

You can perform the following operations.

Table 2-2 Managing projects

Operation	Description
Create a project	To create a project, you must have the project creator permission. For details about how to configure the permission, see Project Creators . Click Create Project and select a project type.
Add a project to a group	1. Click Create Group , enter a group name, and click OK . 2. Click a group name and click Add an existing project . Select the target projects and click OK .
Search for a project	Enter a keyword in the search box above the project list.
Switch the display mode	Projects can be displayed in card view or list view. Click   in the upper right corner of the project list.

2.2 Workspace

The workspace displays your work items, files, and test cases.

Accessing the Workspace

Step 1 Log in to CodeArts homepage.

Step 2 Choose **Workspace** on the navigation bar. The **My Work Items** tab is displayed by default.

Step 3 Switch to the desired tab.

----End

My Work Items



The **My Work Items** tab displays the work items and projects in which you have participated.

NOTE

Only the work items in your Scrum projects are displayed.

On this tab page, you can perform the operations described in the following table.



Table 2-3 Work item management

Operation	Description
Filter work items	Click the drop-down list to select predefined filters.
Search for work items	Enter a keyword or add a filter in the search box, and click  .
Select fields	Click  in the upper right corner of the list, perform the following operations as required, and click OK . <ul style="list-style-type: none">• Select the fields to be displayed on the left pane.• Drag the fields on the right pane to adjust the display sequence.
View/Edit work item details	Click a work item title in the list, view the work item details, and edit them as required. For details, see Viewing Work Item Details .

My Files

The **My Files** tab displays all files uploaded.

On this tab page, you can perform the operations described in the following table.

Operation	Description
Search for a file	Enter a keyword in the search box, and click  .
Preview files	Click a file name in the Name column, and view the content on the displayed page. Preview is not supported for encrypted files or files with too many pages. Download the file to view the content.
Download a file	Click  in the Operation column of the target file to download it.

My Tests

The **My Tests** tab page displays all test cases in all projects that the current user participates in. **Owner** is the current user.

Click a case ID in the list to go to the case details page. You can view the case details or edit the case as required. For more operations related to test cases, see [Test Case](#).

2.3 Setting an Alias

You can only set an alias for yourself. Aliases are visible to all project members.

When you set the work item handler, the alias of a user is displayed by default. If no alias has been set before, the username is displayed.



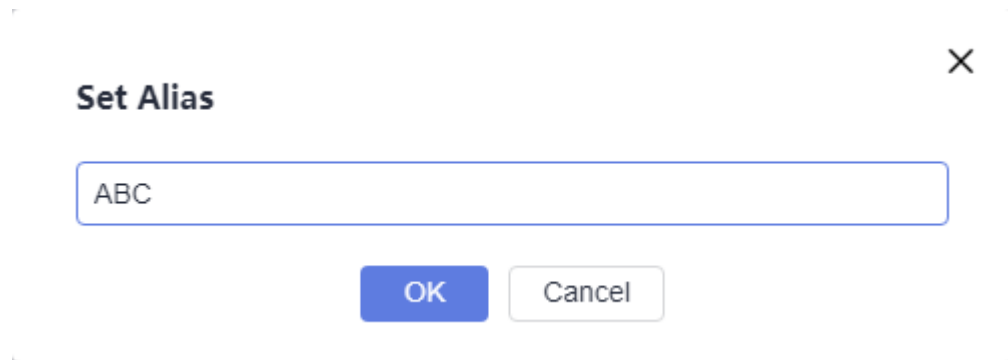
- Step 1** Log in to CodeArts homepage and click the username  on the navigation bar.
- Step 2** Click  next to the username.

Figure 2-1 Changing the alias



- Step 3** In the dialog box displayed, enter an alias and click **OK**.

Figure 2-2 Setting the alias



Step 4 Refresh the page. The new alias is displayed in the upper right corner. Refresh the page if the alias is not displayed.

----End

2.4 This Account Settings

2.4.1 Overview

This Account Settings is for configuring your personal account. See the following table.

Category		Description
General	Notifications	Enable or disable notifications and specify the period when you can receive notifications. For details, see Notifications .
Repo	SSH Keys	Manage your SSH keys. For details, see SSH Keys .
	HTTPS Password	Manage your HTTPS password. For details, see HTTPS Password .

2.4.2 Notifications

Configure whether to receive notifications related to CodeArts services on the **Notifications** page.

Enabling/Disabling Notifications

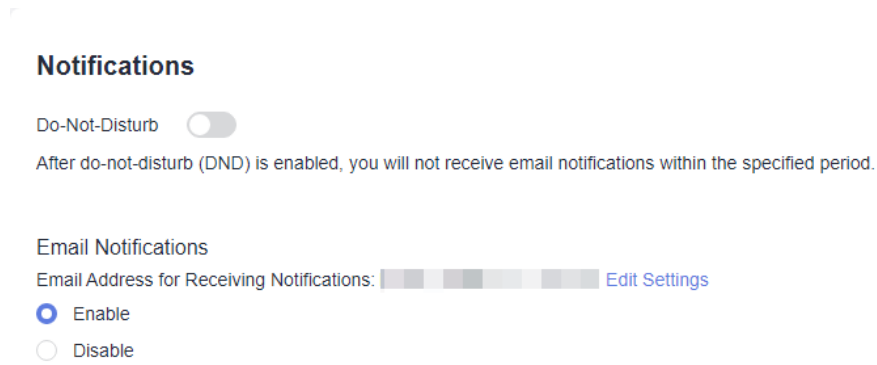
Step 1 Log in to CodeArts homepage and click the username  on the navigation bar.

Step 2 Choose **This Account Settings**.

Step 3 Enable or disable notifications on the **Notifications** page.

To change the email address for receiving notifications, click **Edit Settings** and change the email address as prompted.

Figure 2-3 Configuring notifications



----End

Setting Do-Not-Disturb Time Period

By default, you receive notifications from CodeArts 24 hours a day. You can specify a time period during which you do not want to receive any notifications.


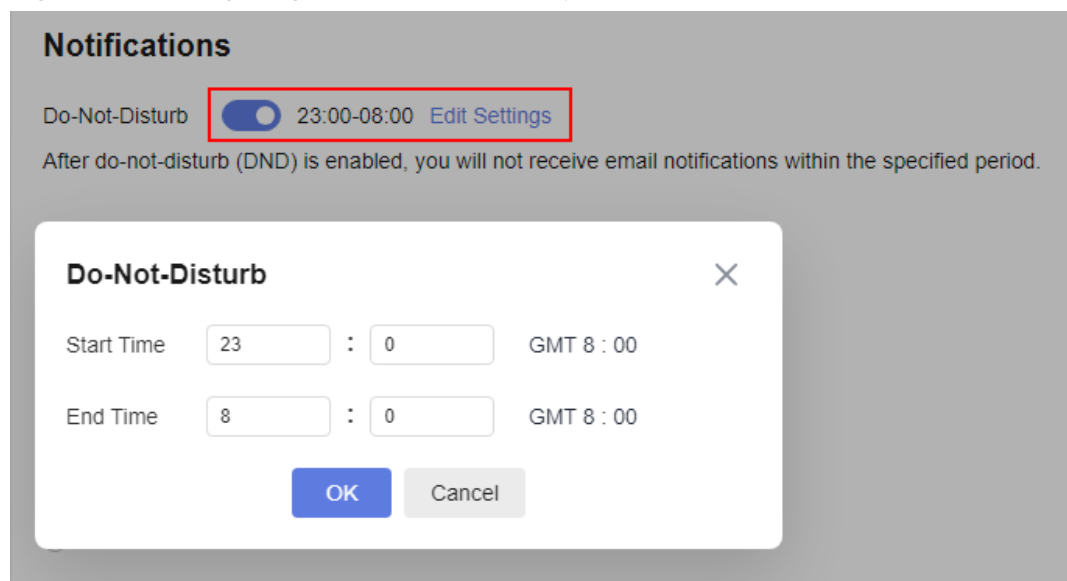
- Step 1** Turn on the **Do-Not-Disturb** () switch.
- Step 2** Click **Edit Settings**, enter the start and end time, and click **OK**.

Figure 2-4 Configuring do-no-disturb time period



----End

2.5 All Account Settings

2.5.1 Overview

All Account Settings is for configuring tenant-level settings for each service. See the following table.

Table 2-4 All Account Settings

Category		Description
General	Project Creators	Determine which members can create projects. For details, see Project Creators .
	Projects and Members	View all projects and members in your tenant account. For details, see Managing Projects and Members .
	Global Settings	Determine whether to allow users in your account to change their aliases. For details, see Managing Global Settings . NOTE This is available only in LA-Santiago and TR-Istanbul.
Work	Project Templates	Manage templates for creating projects. For details, see Customizing a Template .
Repo	Whitelist for All Accounts	Manage IP addresses that can access CodeArts Repo. For details, see IP Address Whitelists .
Build	Templates	Manage custom build templates. For details, see Customizing Templates .
	Build Environments	Manage custom build environments. For details, see Customizing Build Images .
	Files	Manage the settings.xml file for building applications with Maven. For details, see File Management .
	Recycle Bin	Manage deleted build tasks. For details, see Recycle Bin .
Artifact	Set Permissions	Manage CodeArts Artifact users and their permissions. For details, see Managing Repository Permissions . NOTE This is available only in AP-Singapore, LA-Sao Paulo1, and LA-Mexico City2.
Agent Pool	Agent Pool	Manage custom agents for build and deployment tasks. For details, see Agent Pools .
Policy Management	Rules	Manage rules that can be configured in pipeline pass condition policies. For details, see Tenant-level Rules .
	Policies	Manage policies that can be selected in pipeline pass conditions. For details, see Tenant-level Policies .

2.5.2 General

2.5.2.1 Project Creators

Prerequisites

Your account meets any of the following requirements:

- Tenant account
- With the **Tenant Administrator** permission
- With the **ProjectMan ConfigOperations** permission


Procedure

Step 1 Log in to CodeArts homepage and click the username  on the navigation bar.

Step 2 Choose **All Account Settings**.

Step 3 Choose **General > Project Creators**.

Step 4 Select **Only some members can create projects**. The member list is displayed.

Step 5 Enable or disable the authorization by clicking . Unauthorized members cannot create projects.

----End

2.5.2.2 Managing Projects and Members

Prerequisites

You can view projects that you have joined or have not joined, and the project members.

- The joined projects page is available for all members.
- To view unjoined projects and their members, ensure that your account meets any of the following requirements:
 - Tenant account
 - With the **Tenant Administrator** permission
 - With the **ProjectMan ConfigOperations** permission

Procedure

Step 1 Log in to CodeArts homepage and click the username  on the navigation bar.

Step 2 Choose **All Account Settings**.

Step 3 Choose **General > Projects and Members**.

Step 4 View projects and members.

- By default, the **Unjoined Projects** tab is displayed.
To join a project, select it and click **Join Project**.

Figure 2-5 Unjoined Projects

Type	Project Name	Creator	Created	Members
<input checked="" type="checkbox"/> Scrum	Dome	000	Nov 24, 20...	1
<input type="checkbox"/> Scrum	Scrum	000	Oct 21, 20...	1

Total Records: 2 < 1 >

Join Project Cancel




- Click the **Joined Projects** tab. The joined projects are displayed. To delete a project, click .

Figure 2-6 Joined Projects

Type	Project Name	Creator	Created	Members	Opera...
Scrum	test	DevOps	Nov 30, 20...	1	
Scrum	Phoenix	DevOps	Oct 02, 20...	2	

10 Per Page, Total Records: 2 < 1 >


- Click the **Project Members** tab. All projects in your account and the project members are displayed. To remove a member from a project, click . To remove multiple members, select them and click **Batch Remove**.

Figure 2-7 Project Members

Username	Nickname	Enterprise Account	Project Name	Type	Project Creator	Last Accessed On	Enabled/D...
<input type="checkbox"/> DevOps	--	DevOps	project_01	Scrum	DevOps	--	Enabled
<input checked="" type="checkbox"/> test001	--	DevOps	Demo	Scrum	000	Mar 31, 2023	Enabled
<input checked="" type="checkbox"/> test002	--	DevOps	Release-Demo	Scrum	000	Mar 21, 2023	Enabled

Batch Remove 50 Per Page, Total Records: 12 < 1 >

50 Per Page, < 1 >

----End

2.5.2.3 Managing Global Settings


Setting an Alias

By default, all users in your account can set an alias in CodeArts. If you do not need to use this function, disable it.

Step 1 Log in to CodeArts homepage and click the username  on the navigation bar.

Step 2 Choose **All Account Settings**.

Step 3 Choose **General > Global Settings**.

Step 4 Click  next to **Disable Custom Alias**.

Step 5 Refresh the current page. When you [set an alias](#), the system displays a message indicating that the modification is not allowed.

Figure 2-8 Alias setting disabled



----End


2.5.3 Agent Pools

2.5.3.1 Creating an Agent Pool

Background

You can add your own execution resources to the agent pool. When executing a task, you can select an agent in the pool to execute the task, improving efficiency without depending on public execution resources.

Procedure

Step 1 Log in to CodeArts homepage and click the username  on the navigation bar.

Step 2 Choose **All Account Settings**.

Step 3 Click **Agent Pool > Agent Pool**. On the displayed **Pools** page, click **Create Pool**, configure the pool, and click **Save**.

Table 2-5 Configuring the agent pool

Configuration Item	Description
Pool Name	Name of the agent pool, which can be customized as required.
Pool Type	Supported pool types: <ul style="list-style-type: none">● LINUX: Tasks are executed on a Linux VM.● LINUX_DOCKER: A Linux Docker container is started and tasks are executed in the container.● WINDOWS: Tasks are executed on a Windows VM.● MAC: The agent registration command is run on a MAC host.
Description	Enter a description.

Configuration Item	Description
This pool can be used by all users of the current account.	If this parameter is selected, all users of the current account can use the pool.

Step 4 View the new record after the creation is successful.

----End

2.5.3.2 Creating an Agent

Overview

To connect custom execution resources, you can install an agent on a host and register it with CodeArts.

Install only one agent on an agent host. If multiple agents are installed, some of them may go offline during task execution.

Prerequisites

- Your account must be:
 - A tenant account.
 - Or an IAM user who has the agent pool owner, manager, or user permission.

NOTE

If you use the AK/SK of an IAM user to create an agent in the **LA-Sao Paulo1** and **LA-Santiago** regions as an IAM Identity Center user ([a user created in the IAM Identity Center](#)), the IAM user must have at least the agent pool user permission.

- The host where you want to install an agent must meet the following requirements:
 - Specifications: 4 vCPUs | 8 GB or above, disk space > 80 GB
 - Java 8 and Git are installed. If the agent pool type is LINUX_DOCKER, Docker must also be installed on the host.

NOTE

- If you use a Linux host, you can choose auto agent installation, or manually install the agent using the **root** account.
- If you use a Windows or macOS host, manually install the agent on it.
- The host can access the public network.

Creating an Agent

Step 1 After completing the operations described in [Creating an Agent Pool](#), find the target agent pool in the agent pool list and click its name to display the **Agents** tab page.

Step 2 Click **Create Agent**. A dialog box is displayed.

Step 3 Configure parameters as required.

1. Configure the network environment for the host.

Table 2-6 Configuration 1

Configuration Item	Description
Install a JDK automatically	<p>The host must have a Java 8 environment.</p> <p>After this function is enabled, the JDK is automatically installed in the /usr/local directory of the host.</p> <p>If this function is disabled, you need to manually install a JDK. Learn how to install Java 8.</p> <p>NOTE This configuration item is displayed only when the agent pool type is LINUX or LINUX_DOCKER.</p>
Install Git automatically	<p>The host must have a Git environment.</p> <p>After this function is enabled, Git is automatically installed on the host.</p> <p>If this function is disabled, you need to manually install Git. Learn how to install Git.</p> <p>NOTE This configuration item is displayed only when the agent pool type is LINUX or LINUX_DOCKER.</p>
Install Docker	<p>The host must have a Docker environment.</p> <p>After this function is enabled, the Docker is automatically installed in the /usr/bin directory of the host. After the installation is complete, the service is automatically registered and the Docker service is started.</p> <p>If this function is disabled, you need to manually install Docker. Learn how to install Docker.</p> <p>NOTE This configuration item is displayed only when the agent pool type is LINUX or LINUX_DOCKER.</p>

2. Configure authentication information.

Table 2-7 Configuration 2

Configuration Item	Description
AK	<p>Access key ID.</p> <p>Obtain the value from the access key file downloaded by referring to Obtaining an AK/SK.</p>

Configuration Item	Description
SK	Secret access key. Obtain the value from the access key file downloaded by referring to Obtaining an AK/SK .
Agent Name	Agents with the same name cannot be installed on the same host. Set this parameter based on the site requirements. To facilitate management, it is recommended that the name be clear and associated with the agent IP address, such as 10.10.10.10-agent-01 .
Agent Workspace	The working directory where the agent runs on the host and the workspace where tasks are executed. Different agents of the same host cannot use the same agent workspace. For easy management, specify a data disk. Example: <ul style="list-style-type: none">- Linux: /opt/cloud/agent01- Windows: C:/opt/cloud/agent01- macOS: /opt/cloud/agent01

3. Generate a command.

Set the parameters, agree to the statements, and click **Generate Command**. The command for installing the agent is automatically generated in the command box.

Click **Copy Command**.

Step 4 Log in to the host and run the installation command copied in the previous step.

- Linux host: Log in using the **root** account and then run the installation command.
- Windows host: Log in as the administrator, open Git Bash, and then run the installation command.
- macOS host: Log in using the **root** account and then run the installation command.

If the following message is displayed, the installation is complete.

Figure 2-9 Successful installation

```
[2022-07-04 16:52:57] [INFO] End Install Octopus Agent, Agent output logs have been printed to [ /opt/octopus-agent/logs/octopus-agent.log ]
```

Step 5 Return to the **Agents** tab page and close the dialog box.

After 10 to 30 seconds, check the status of the installed agent instance on the **Agents** tab page. If the status is **Idle**, the installation is successful.

----End

Follow-up Procedure

- View the agent list.
In the agent pool list, find the target agent pool and click its name to display the **Agents** tab page.


The agent list displays the agent status, memory usage, and available hard disk space.

An agent can be in any of the following states:

Table 2-8 Agent states

Agent Status	Description
Running	The agent is performing tasks.
Idle	The agent is connected, and no tasks are running.
Disabled	The agent is connected, but is disabled to perform tasks.
Offline	The agent is disconnected. If you want it to go online, log in to the agent to re-register. Otherwise, you can delete the agent.
Deleting	The agent is being deleted.



- Delete an agent.

On the **Agents** page, click  in the **Operation** column to delete a specified agent.

 **NOTE**

Agents in the **Running** state cannot be deleted.

- Start or stop the agent.

On the **Agents** tab page, click  in the **Operation** column to disable the agent. After the agent is disabled, the status changes to **Disabled**. Click  to enable the agent again and the status changes to **Idle**.

- View pool details.

On the **Agents** tab page, click the **Pool Details** tab to view information including the owner, pool type, creation time, and description.

2.5.3.3 Managing Agent Pools

Viewing Pool Details

- Step 1** After completing the operations described in [Creating an Agent Pool](#), find the target agent pool in the agent pool list and click its name to display the **Agents** tab page.

Step 2 Click the **Pool Details** tab to view information including the owner, pool type, creation time, and description.

----End

Managing Pool Permissions

Agent pools involve the following roles.

Table 2-9 Agent pool roles

Role Name	Description
Manager	Has full permissions for the current agent pool, including viewing, using, configuring, and modifying the agent pool.
User	Can view the agent pool's details, operation records, and agent list, and use agents to execute tasks.

Step 1 After completing the operations described in [Creating an Agent Pool](#), find the target agent pool in the agent pool list and click its name to display the **Agents** tab page.

Step 2 Click the **Permissions** tab to manage agent pool permissions.

Figure 2-10 Managing permissions

Permissions (View, Use and Edit the Pool)

Manager +Add test1125 ✓ ✕

test002

User (View and Use the Pool)

Grant Permissions to All Users of the Current Account

Projects +Add Phoenix ✓ ✕

Table 2-10 Managing permissions

Operation	Description
Set manager	<ul style="list-style-type: none">• Click Add next to Manager, select a user from the drop-down list, and click ✓.• To cancel the manager role of a user, click ☒ next to the username.
Set user	<ul style="list-style-type: none">• Click the switch to grant the user role to all users in your account.• Click Add next to Projects, select a project name from the drop-down list box, and click ✓ to set all members in the selected project as agent pool users.• To cancel the authorization for members in a project, click ☒ next to the project name.

----End

Viewing Historical Records of an Agent Pool

Step 1 After completing the operations described in [Creating an Agent Pool](#), find the target agent pool in the agent pool list and click its name to display the **Agents** tab page.

Step 2 Click the **Operation Records** tab to view the operation records of the pool.

----End

Configuring Message Notifications

Step 1 After completing the operations described in [Creating an Agent Pool](#), find the target agent pool in the agent pool list and click its name to display the **Agents** tab page.

Step 2 Click the **Notify** tab and configure event notifications for the agent pool as required.

You can determine whether to send service news to permission managers when the following operations are triggered:

- Create an agent
- Delete an agent
- Disable an agent
- Enable an agent
- Bring an agent offline
- Bring an agent online

----End