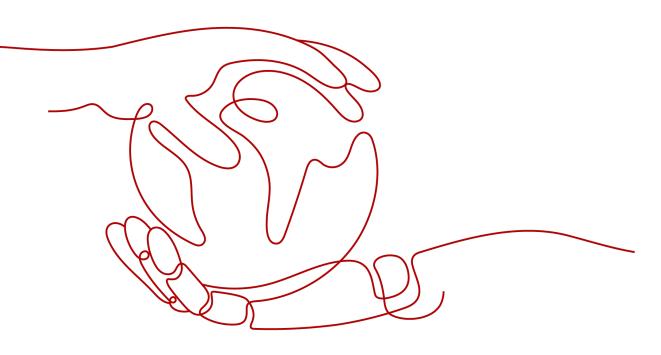
CodeArts Deploy

Service Overview

 Issue
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 Date
 2023-11-30





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What Is CodeArts Deploy?

Overview

CodeArts Deploy provides visualized and automatic deployment services. It has various deployment actions to help you make a standard deployment process, reduce deployment costs, and improve release efficiency.

CodeArts Deploy has the following features:

- Supports host (physical machine and VM) deployment and container deployment.
- Provides system templates such as Tomcat, SpringBoot, and Django for you to create tasks quickly. You can drag and drop atomic actions to orchestrate tasks flexibly.
- Supports multiple hosts in environment at the same time.
- Implements container deployment using Cloud Container Engine (CCE).
- Saves custom templates to create applications at one click.
- Supports parameterized configuration, provides parameter types such as text, environment, and enumeration, and supports dynamic parameter replacement during application deployment.
- Seamlessly integrates with CodeArts Pipeline to support continuous service release.
- Generates deployment logs for atomic actions and provides keywords to accurately match FAQs. If the deployment fails, you can quickly locate the cause and find a solution.

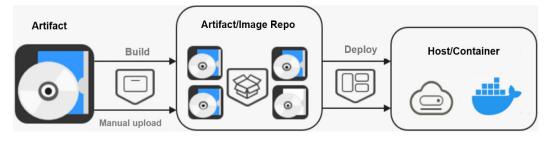
What Can I Do with CodeArts Deploy?

The table below describes the functions provided by CodeArts Deploy.

Function	Description	
Basic resource manage ment	Add one or more hosts and verify the connectivity. Create a host cluster to perform operations on multiple hosts in a unified manner. Search for a host by name or IP address. Modify or delete a host or host cluster.	
Applicati on manage ment	You can create one or more applications using a predefined template or custom orchestration procedure, search for and filter applications by name, and modify and delete applications.	
Paramete r configura tion	Application steps support parameter reference. During deployment, you can specify parameter values. You can deploy applications by replacing corresponding parameters with specified values.	
Dynamic paramete r	Applications support dynamic parameter execution. During deployment, you can dynamically enter parameters without modifying applications, enhancing reusability and flexibility.	
Applicati on package selection	Application packages can be selected from CodeArts Artifact. Application packages can be automatically archived to CodeArts Artifact during building.	
Applicati on package upload	Application packages can be uploaded from the local host to CodeArts Artifact.	
Deploym ent dynamics	Dynamic messages, including deployment success, deployment failure, and application update and deletion messages, are generated during application deployment.	
Concurre nt deploym ent	You can select multiple hosts and environments in an application to implement parallel deployment of multiple hosts.	
Deploym ent details	You can view the deployment details, including the deployment progress and application deployment information.	
Deploym ent log	You can view deployment logs. If multiple hosts are deployed concurrently, you can view logs by host.	
CodeArts Pipeline integratio n	Applications can be integrated in CodeArts Pipeline and orchestrated to be executed in parallel or serially. Pipeline parameters are supported.	

How Does CodeArts Deploy Work?

You can either manually upload artifacts or create a build task to save artifacts to Artifact or an image repository. CodeArts Deploy uploads the artifacts and installs them on a host or container.



2_{Features}

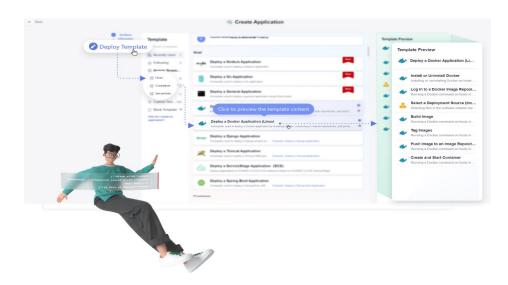
2.1 Easily Creating an Application Following a Wizard

To help new users quickly get started, CodeArts Deploy provides a wizard to create an application. The decision tree guide also reduces usage costs.



2.2 Diverse System Templates and Instant Preview

CodeArts Deploy covers host, container, and serverless deployment scenarios. It provides many types of **system deployment templates** for Node.js application deployment, Go application deployment, nginx-ingres grayscale release, and general deployment. It also supports template preview, so that you can quickly preview deployment capabilities of each template and select a proper one.



2.3 Grayscale Release of Kubernetes nginx-ingress

CodeArts Deploy supports gray deployment on CCE Kubernetes clusters based on the Nginx-Ingress component. The deployment action **Kubernetes nginx-ingress gray deployment (CCE cluster)** is added to simplify configuration and improve efficiency. For more information, see .

Gray deployment of CCE Kuber View Guide	gray deployment (CCE cluster) netes clusters based on the ingress-nginx component.	1
	* Region	
	CN North-Beijing1	*
	* Cluster Name coe-ldt	
	* Namespace	
* gray strategy		
Header Cookie		
* Header-Key		
* Header-Value		
The value can be a character string or a	regular expression. The regular expression format is ^\$.	· ···
Gray traffic weight(%)		
0		
0		
	* Header Key	100
	- Header Value ops, roles	
	50	

2.4 Differentiated Environment Management

CodeArts Deploy provides the **Environment Management** function to host environment resources such as host clusters consisting of hosts and proxies and Kubernetes clusters (available soon). Refined environment permission management further standardizes dependencies between applications (software packages) and environments, and implements application-level isolation and differentiated management.

Two Deploy	Modes S	Supported	nd, 8+-104,0048028,01	2025/02/28 18 11 07 (MT+08-00 2025/02/28 18:08:55 (MT+08:00		+ 2 0 + 2 0	
= Host	🛞 C	ontainer	and provided, 00490208, 24	2023/02/28 18-44.08-54/1-08.08 2023/02/28 16:00:58-54/1-08.08		+ 2 + + 2 +	
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d tena			land_devoluted_000496258_01	2023-02-25 16-44-06 GMT-08-00 2023-02-25 16-03-59-04/T-08-00		+ 7 8 + 7 8	
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Windows Agency	Windows	0	devcloud_devcloud devcloud_devcloud		18:11:07 GMT+08:00 18:08:55 GMT+08:00		+ 2 8
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Select Deploy Source Linux	∆ Linux	1	devcloud_devcloud	d_100490255_01 2023/02/23	15:03:59 GMT+08:00		+ 2 8
				("Ibisow cliem") mode			and: insectively

2.5 Multi-Region DR and Multi-Account Collaborative Deployment

To solve region and permission restrictions during application deployment, CodeArts Deploy provides functions such as application-level cross-region HA DR deployment and collaborative deployment of multiple accounts in an enterprise for flexibility, continuity, and security.

The deployment scope is as follows:

- Deploying an Application in Kubernetes (CCE Cluster)
- FunctionGraph Deployment Procedure

3_{Constraints}

This section describes the constraints on CodeArts Deploy.

Basic constraints

Table 3-1 Basic constraints

Categor y	ltem	Constraint
Applicati on manage	Maximum number of applications in a single project	2000
ment	Maximum number of days for which deployment records can be viewed under an application	31
	Maximum time for deploying an application (minutes)	30
Basic resource manage	Maximum number of host clusters in a project	1000
ment	Maximum number of hosts in a host cluster	200
	Maximum number of hosts whose connectivity is verified in batches	200
Environ ment manage ment	Maximum number of environments in a single application	100

Categor y	Item	Constraint
	Maximum number of hosts in a single environment	200
	Maximum number of hosts whose connectivity is verified in batches	200

• Only OSs listed in the table below are supported.

Table 3-2 OSs supported

OS	Version
CentOS	6.3, 6.5, 6.8, 6.9, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 8.0, 8.1, and 8.2
Debian	9.0.0, 8.8.0, 8.2.0, and 10.0.0
EulerOS	2.0, 2.2, 2.3, and 2.5
Ubuntu	14.04, 16.04, and 18.04
Windows	2012 R2, 2016, 2019, Win 7, and Win 10

• Only cluster versions listed in the table below are supported.

Table 3-3 Cluster versions

Туре	Version
CCE cluster	1.17–1.25
Self-managed K8S cluster	1.13–1.15