

# Container Registry

## Product Introduction

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## What is Container Registry

Container Registry helps you manage images throughout the entire lifecycle by providing secure application image hosting capability, accurate image security scan feature, stable image build service, and convenient image authorization feature. Container Registry simplifies the build and Operation & Maintenance of Registry, supports image hosting in multiple regions, and integrates with cloud products such as Container Service, providing a one-stop solution for using Docker in the cloud.

### Features

#### Image repository management and flexible choices of regions

- You can create or delete an image repository in different regions based on your business needs.
- Each image repository provides the corresponding network address under the public network, intranet, and Virtual Private Cloud (VPC).

#### Image security scan

- Container Registry supports the convenient image security scan feature, which displays detailed image layer information.
- Container Registry provides image vulnerability reports, which shows multi-dimensional vulnerability information such as vulnerability number, vulnerability level, and fix versions.

#### Stable build service

- Container Registry supports the source code build of GitHub, Bitbucket, and self-built GitLab.
- Container Registry supports automatic build. The new Docker images are automatically built after the source code is changed.

#### Seamless integration among cloud products

- Integrated with GitHub, Bitbucket, and self-built GitLab, Container Registry can automatically

- build new images after the compile and test from source code to applications.
- Integrated with Container Service, after new images are built, Container Registry can easily deploy these images to Container Service clusters.

## Benefits

### Easy to use

- No need to build, operate, and maintain the image repository on your own. You can create an image repository with one click.
- Container Registry provides stable and rapid image uploading and downloading services in multiple regions.

### Secure and controllable

- Container Registry has a perfect image permission management system to guarantee the security of image sharing and the convenience of team collaboration.
- Container Registry provides the image security scan function to guarantee that the image vulnerabilities can be identified, and the vulnerability level can be prompted.

### Seamless integration among cloud products

- Integrated with Container Service, Container Registry realizes the continuous deployment after new application images are generated.

## Glossary

## Preface

This article introduces some basic terminologies and concepts of Docker Container Registry for you to use the Docker image.

## Basic concepts

The Docker image storage center is usually called a Registry.

To obtain a private image, log on to the Registry first and then pull the image. You can push the image back to Registry after modifying the image. You can also generate an image locally by the Docker image build function and then push the image to Registry.

What is the URL of a Docker image? The following is a complete example. (Use the public image of Container Service as an example.)

`registry.cn-hangzhou.aliyuncs.com/acs/agent:0.8`

- `registry.cn-hangzhou.aliyuncs.com` is the domain name of the Registry.
- `acs` is the name of your namespace.
- `agent` is the name of your repository.
- `0.8` is an image tag. It is not required. The default value is **latest**.

Combine these fully-independent concepts:

- `registry.cn-hangzhou.aliyuncs.com/acs/agent` is the repository coordinate.
- `acs/agent` is the full name of the repository (usually used in API).