

Creating an IBM Cloud Container Registry Namespace



Objectives

After completing this lab, you will be able to:

- Describe the IBM Cloud Container Registry service
- Create a Container Registry namespace

Lab Overview

In this lab you will create an IBM Cloud Container Registry namespace, which you will use in a subsequent labs.

Pre-requisites

You will need an IBM Cloud account to do this lab. If you have not created one already, click on this [link](#) and follow the instructions to create an IBM Cloud account.

About IBM Cloud

The IBM Cloud platform is deployed across data centers around the world. It combines platform as a service (PaaS) with infrastructure as a service (IaaS) to provide an integrated experience. The platform scales and supports both large enterprise businesses and small development teams and organizations.

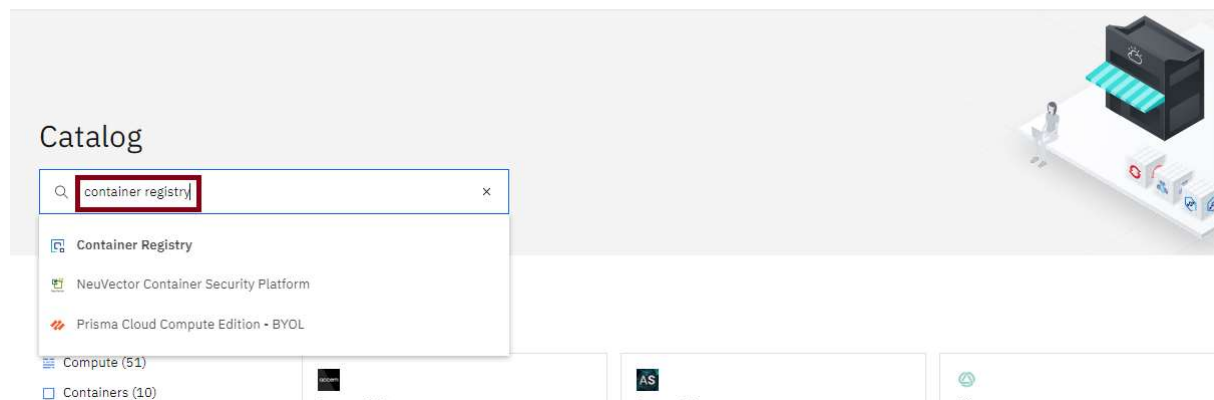
The platform is built to support your needs, whether it's working only in the public cloud or taking advantage of a multicloud deployment model. IBM Cloud offers a variety of services, including Compute, Network, Storage, Management, Security, Databases, Analytics, AI, and Cloud Paks.

About IBM Cloud Container Registry namespaces

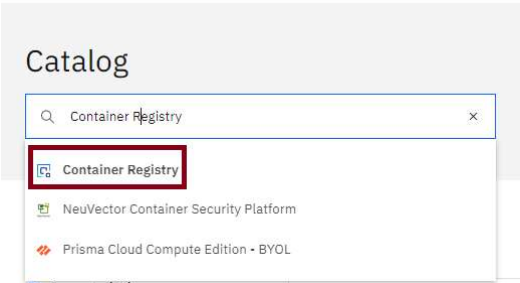
IBM Cloud® Container Registry provides a multi-tenant, encrypted private image registry that you can use to store and access your container images in a highly available and scalable architecture. The namespace is a slice of the registry to which you can push your images. The namespace will be a part of the image name when you tag and push an image. For example, `us.icr.io/<my_namespace>/<my_repo>:<my_tag>`.

Create a Container Registry namespace

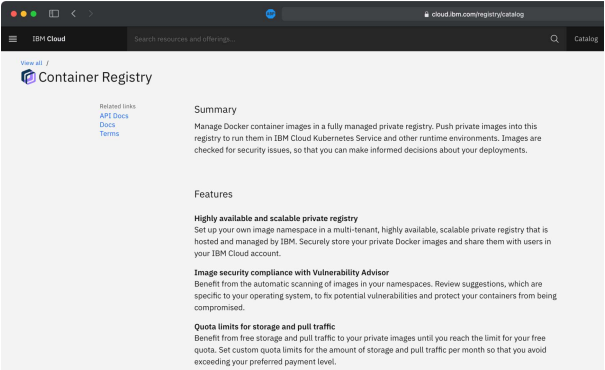
1. Go to the [IBM Cloud catalog](#) page.
2. In the **Catalog** search box, type Container Registry.



3. Click on **Container Registry** in the search results.



4. You can now read about the Container Registry service and visit links for API documentation and docs about how to use the service.



5. At the top right, click **Get started**.

View all /

Container Registry

Author: IBM • Docs • API docs

Compliance

EU Supported

Related links

API Docs

Docs

Terms

Estimate costs

Get started

Summary

Manage Docker container images in a fully managed private registry. Push private images into this registry to run them in IBM Cloud Kubernetes Service and other runtime environments. Images are checked for security issues, so that you can make informed decisions about your deployments.

Features

Highly available and scalable private registry

Set up your own image namespace in a multi-tenant, highly available, scalable private registry that is hosted and managed by IBM. Securely store your private Docker images and share them with users in your IBM Cloud account.

Image security compliance with Vulnerability Advisor

Benefit from the automatic scanning of images in your namespaces. Review suggestions, which are specific to your operating system, to fix potential vulnerabilities and protect your containers from being compromised.

Quota limits for storage and pull traffic

Benefit from free storage and pull traffic to your private images until you reach the limit for your free quota. Set custom quota limits for the amount of storage and pull traffic per month so that you avoid exceeding your preferred payment level.

Pricing plans

Plan	Features	Pricing
Lite	Free Plan with limited resources Storage (Gigabyte-Months) - 0.5 GB free per month Pull traffic (Gigabytes) - 5 GB free per month	Free
Container Registry	Namespaces for Container Registry	Free
Standard	Pull traffic (Gigabytes) - 5 GB free per month Storage (Gigabyte-Months) - 0.5 GB free per month The plan provides a free tier and unlimited use at a cost. You can set limits to manage your costs.	\$0.08 / Gigabyte pull traffic \$0.05 / Gigabyte-Months storage

6. Ensure that the location is set to **Dallas**.

IBM Cloud

Search resources and offerings...

Container Registry

Quick start

Namespaces2

Repositories3

Images5

Trash0

Settings

Quick start

Location

Dallas

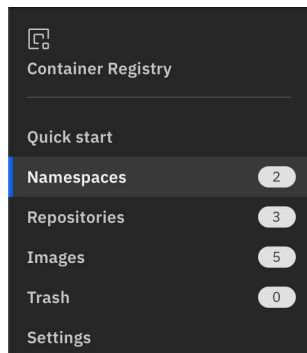
Welcome!

Let's get started by installing the pushing your first image.

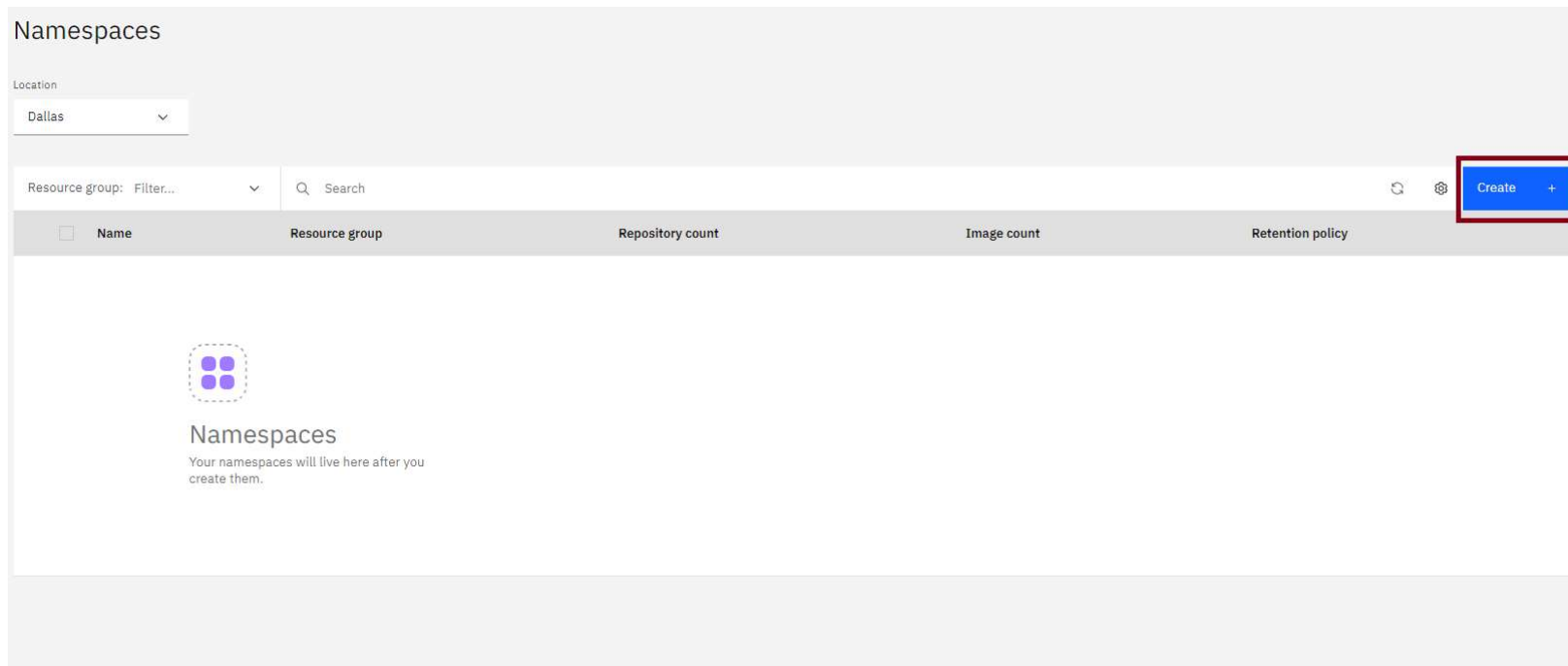
7. On the left hand side panel, click the **Namespaces** tab.

about:blank

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8. On the right side of the Namespaces panel, click **Create**.




9. A **Create namespace** panel opens.

Namespaces

Location

Dallas

Resource group: Filter... Search

Name	Resource group	Repository count	Image count
 <h3>Namespaces</h3> <p>Your namespaces will live here after you create them.</p>			

Create namespace

The namespace must be unique across all IBM Cloud accounts in the same region.

Resource group

Default

Name

Cancel Create


10. In the **Resource group** field, select the name of the resource group you would like this namespace to reside in. For this lab, you can simply leave the selection as **Default**.

Namespaces

Location

Dallas

Resource group: Filter... Search

Name	Resource group	Repository count	Image count
 <h3>Namespaces</h3> <p>Your namespaces will live here after you create them.</p>			

Create namespace

The namespace must be unique across all IBM Cloud accounts in the same region.

Resource group

Default

Name

Cancel Create

11. In the **Name** field, type a unique name for the namespace. The name must be unique across all users of the Container Registry service in this region.


Namespaces

Location

Dallas

Resource group: Filter... Search

Name	Resource group	Repository count	Image count
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Namespaces

Your namespaces will live here after you create them.

Create namespace

The namespace must be unique across all IBM Cloud accounts in the same region.

Resource group

Default

Name

week1_kubernetes

Cancel Create


12. Click **Create** at the bottom of the panel to create the namespace.

Namespaces

Location

Dallas

Resource group: Filter... Search

Name	Resource group	Repository count	Image count
 <h3>Namespaces</h3> <p>Your namespaces will live here after you create them.</p>			

Create namespace

The namespace must be unique across all IBM Cloud accounts in the same region.

Resource group

Default

Name

week1_kubernetes

Cancel Create

You now have a namespace (as below) to which you can push images.


Namespaces

Location

Dallas


Resource group: Filter... Search

Create +

Name	Resource group	Repository count	Image count	Retention policy
 week1_kubernetes	Default	0	0	Retain all images

Items per page: 25 1-1 of 1 item

1 1 of 1 page

 **Create namespace**
Successfully started

Congratulations! You have completed the first lab for the first module of this course.

Changelog

Date	Version	Changed by	Change Description
2022-04-08	1.1	K Sundararajan	Updated Lab instructions

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