

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.

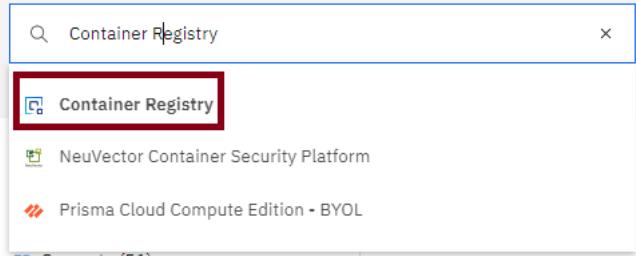
The screenshot shows the IBM Cloud Catalog interface. At the top, there is a navigation bar with a menu icon, the text "IBM Cloud", and a search bar containing the placeholder "Search resources and products...". Below the search bar, the word "Catalog" is displayed in a large, bold font. A search results dropdown is open, showing the query "container registry" in the input field. The results list includes:

- Container Registry** (with a blue square icon)
- NeuVector Container Security Platform (with a green square icon)
- Prisma Cloud Compute Edition - BYOL (with a red square icon)

Below the search results, there are category filters: "Compute (51)", "Containers (10)", and other collapsed categories indicated by ellipses (...). To the right of the search results, there are icons for "AS" (Application Services) and "Cloud Pak for Data".

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

Catalog



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

Related links: API Docs, Docs, Terms

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.

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](#)

Summary

Manage Docker container images in a fully managed private registry. Push private images into this registry to run them in IBM Cloud. 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.

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 and software stack.

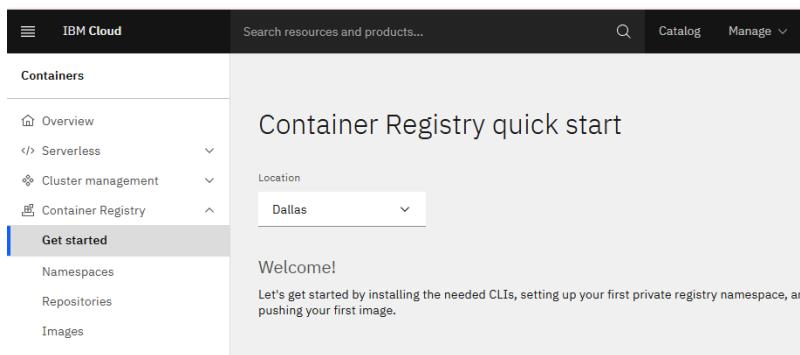
Quota limits for storage and pull traffic

Benefit from free storage and pull traffic to your private images until you reach the limit for your free quota. Set custom quota levels.

Pricing plans

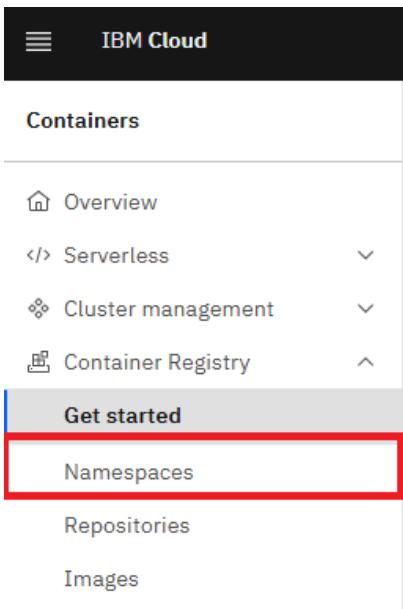
Plan	Features
Lite	Free Plan with limited resources Storage (Gigabyte-Months) - 0.5 GB free per month Pull traffic (Gigabytes) - 5 GB free per month
Container Registry	Namespaces for Container Registry
Standard	Pull traffic (Gigabytes) - 5 GB free per month Storage (Gigabyte-Months) - 0.5 GB free per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

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



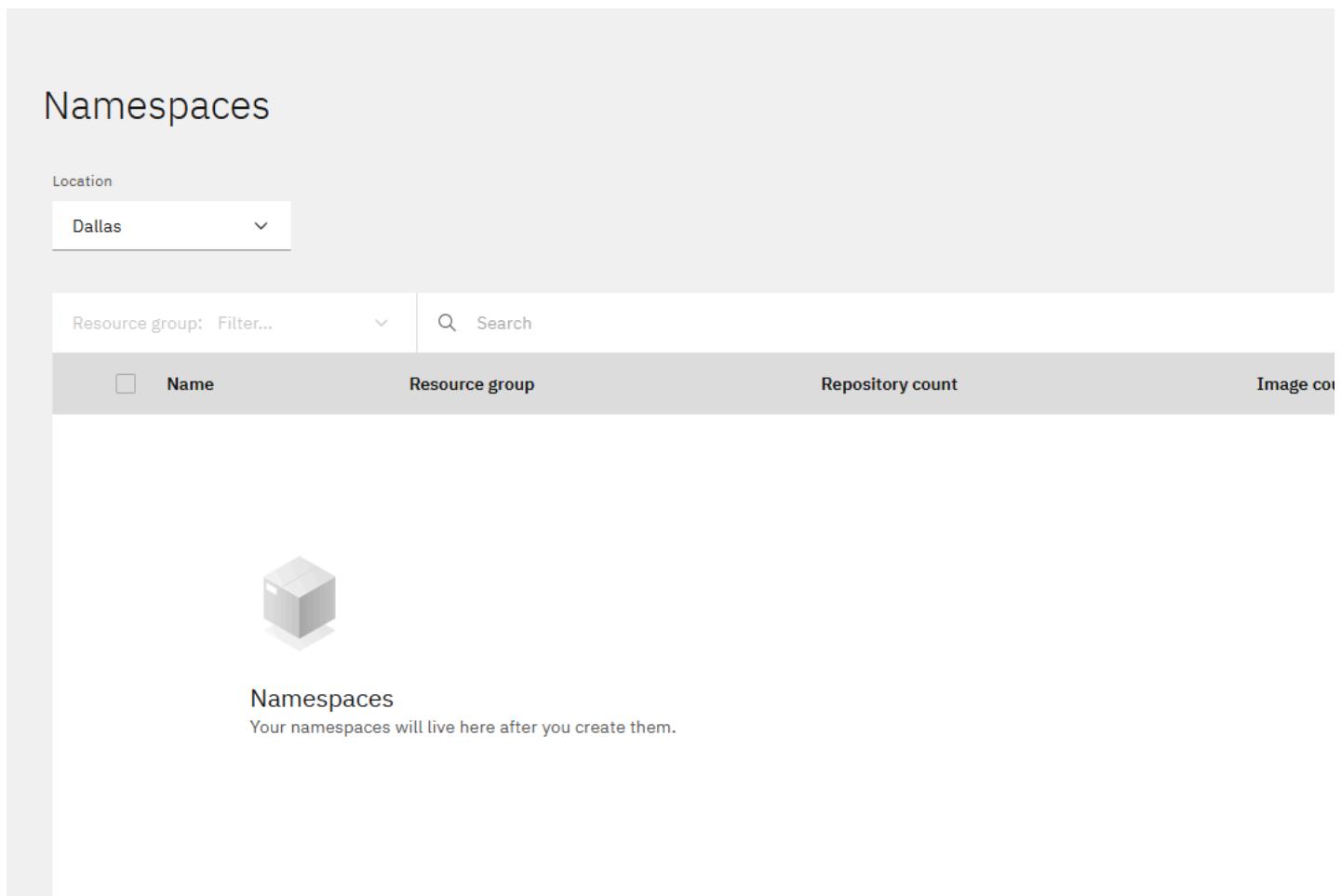
The screenshot shows the IBM Cloud Container Registry interface. On the left, there's a sidebar with a navigation menu. Under the 'Containers' section, the 'Container Registry' tab is selected. Below it, the 'Get started' tab is also selected. Other tabs like 'Namespaces', 'Repositories', and 'Images' are visible but not selected. In the main content area, the title 'Container Registry quick start' is displayed above a 'Welcome!' message. A note below the message says, 'Let's get started by installing the needed CLIs, setting up your first private registry namespace, and pushing your first image.' To the right of the message, there's a dropdown menu labeled 'Dallas' under the heading 'Location'. The top navigation bar includes a search bar, a catalog icon, and a 'Manage' dropdown.

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



The screenshot shows the IBM Cloud Container Registry sidebar menu. At the top is a dark header with the IBM Cloud logo. Below it, the sidebar has a light gray background with a vertical list of options: Overview, Serverless, Cluster management, Container Registry, Get started, Namespaces, Repositories, and Images. The 'Namespaces' option is highlighted with a red border.

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



The screenshot shows the 'Namespaces' creation panel. At the top left is a 'Location' dropdown set to 'Dallas'. Below it are 'Resource group:' and 'Search' filters. The main area has columns for 'Name', 'Resource group', 'Repository count', and 'Image co...'. A large, empty table body follows. At the bottom, there's a placeholder icon of a cube labeled 'Namespaces' with the text 'Your namespaces will live here after you create them.'

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

Namespaces

Location

Dallas

▼

Resource group: Filter...

▼

Q Search



Name

Resource group

Repository count

Image cou



Namespaces

Your namespaces will live here after you create them.

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



Namespaces

Your namespaces will live here after you create them.

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



Namespaces

Your namespaces will live here after you create them.

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



Namespaces

Your namespaces will live here after you create them.

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

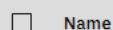
Namespaces

Location

Dallas

Resource group: Filter...

Search



Name

Resource group

Repository count

Image count



week1_kubernetes

Default

0

0

Items per page: 25

1-1 of 1 item

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



Skills Network