

# 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.

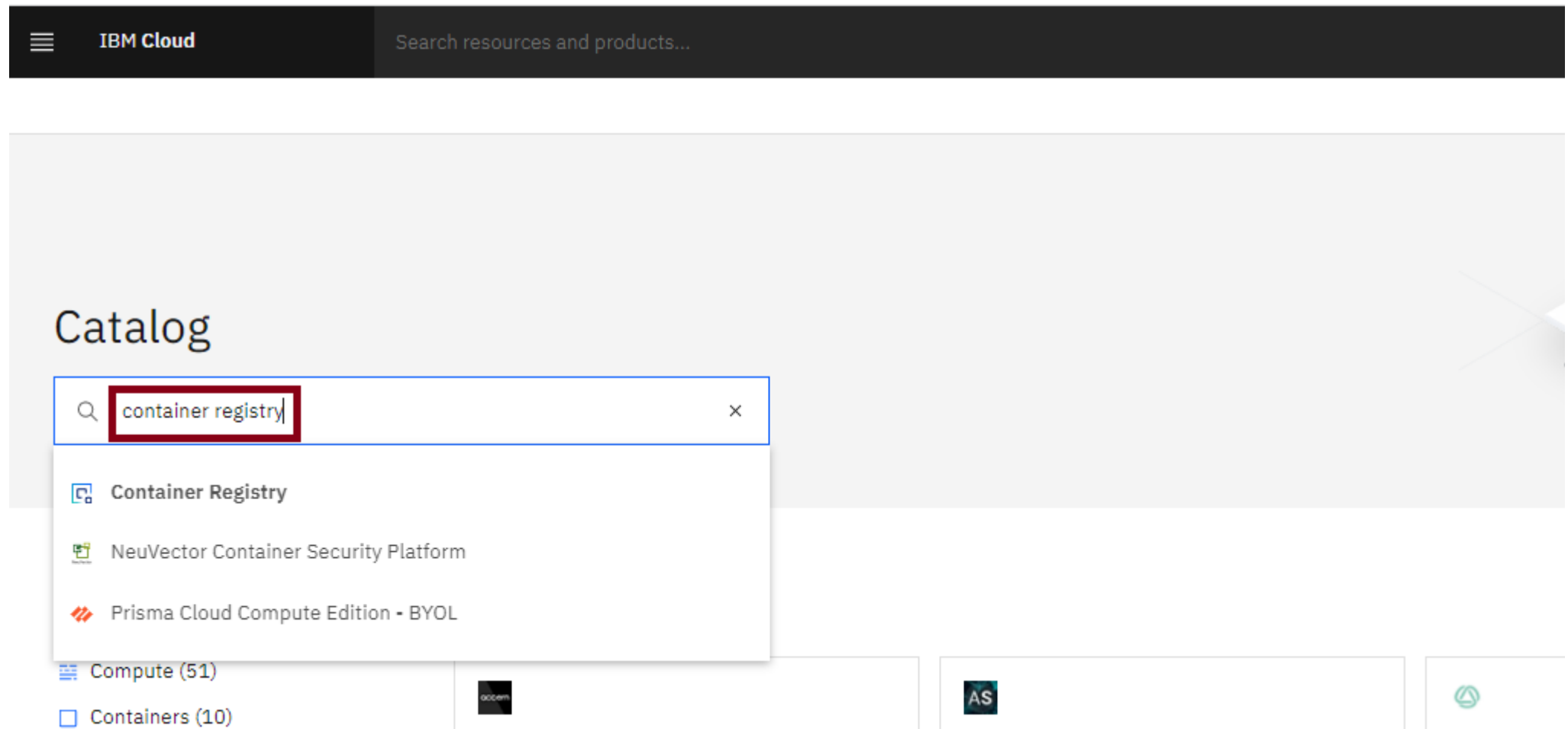
## About IBM Cloud Container Registry namespaces

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

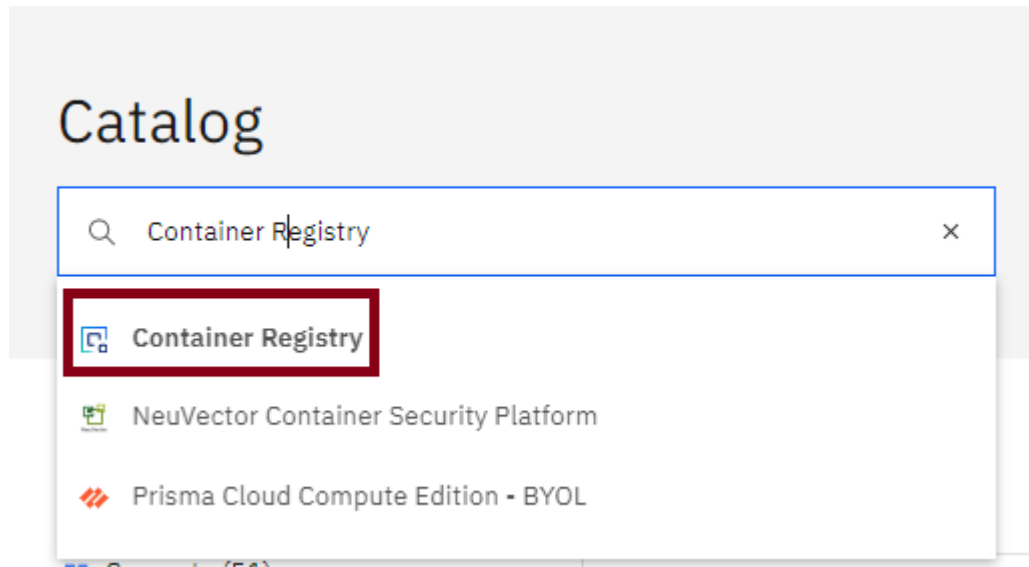
which you can push your images. The namespace will be a part of the image name when you tag and push an image. For example, `us.icr.io/<my_namespace>/<my_repo>:<my_tag>`.

## Create a Container Registry namespace

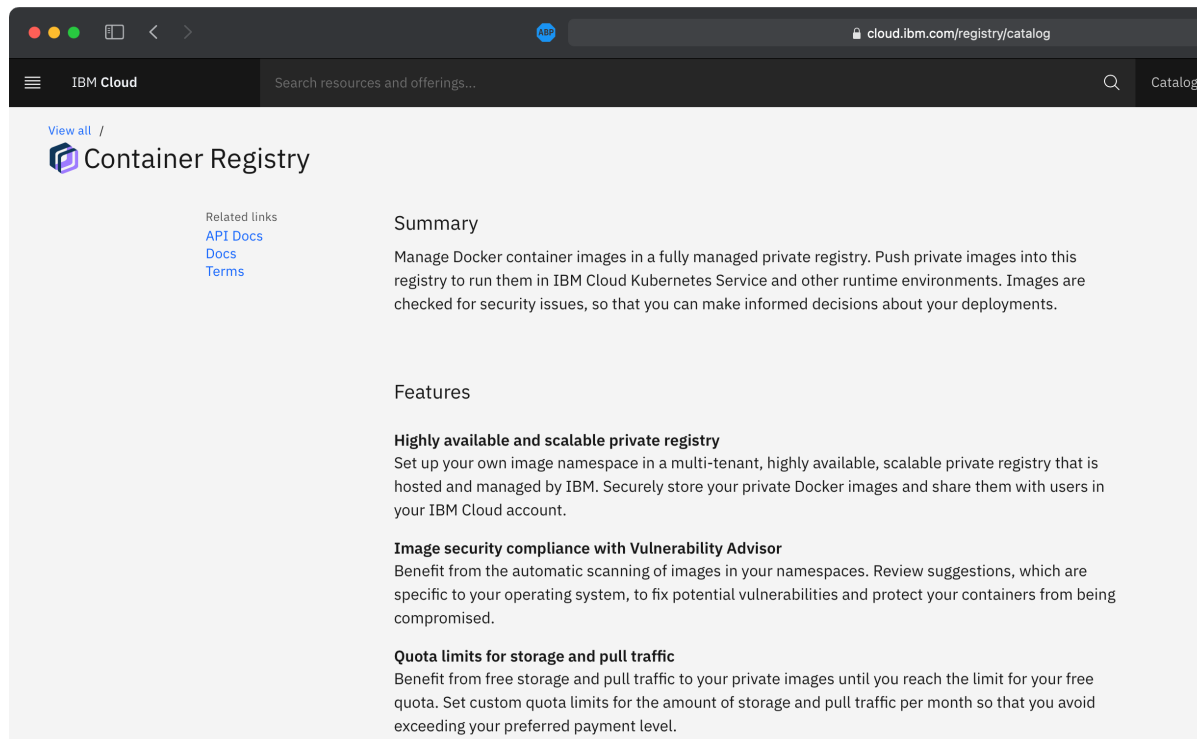
1. Go to the [IBM Cloud catalog](#) page.
2. In the **Catalog** search box, type Container Registry.



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.



The screenshot shows a web browser window displaying the IBM Cloud Container Registry catalog page. The browser's address bar shows the URL `cloud.ibm.com/registry/catalog`. The page header includes the IBM Cloud logo, a search bar with the placeholder text "Search resources and offerings...", and a "Catalog" link. The main content area is titled "Container Registry" and includes a "View all" link. On the left, there are "Related links" for "API Docs", "Docs", and "Terms". The "Summary" section describes the service as a fully managed private registry for Docker images. The "Features" section lists three key capabilities: highly available and scalable private registry, image security compliance with Vulnerability Advisor, and quota limits for storage and pull traffic.

View all /

## Container Registry

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

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[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 and 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 Cloud.

### Image security compliance with Vulnerability Advisor

Benefit from the automatic scanning of images in your namespaces. Review suggestions, which are specific to your image and namespace.

### 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 limits for your namespace.

## Pricing plans

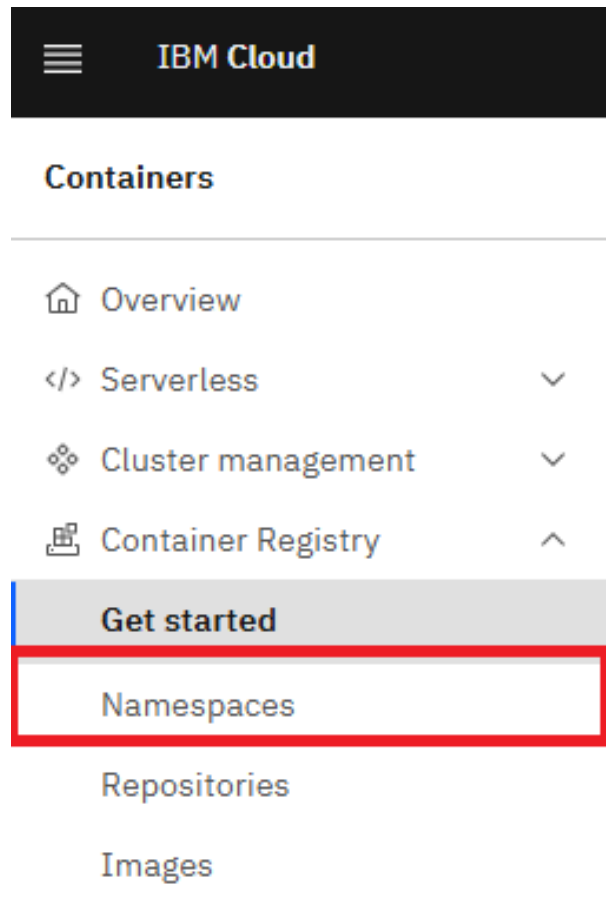
Plan	Features
Lite	Free Plan with limited resources Storage (Gigabyte-Months) - 0.5 GB free per month Pull traffic (Gigabytes) - 5 GB free per month

Container Registry	Namespaces for Container Registry
Standard	<p>Pull traffic (Gigabytes) - 5 GB free per month</p> <p>Storage (Gigabyte-Months) - 0.5 GB free per month</p> <p>The plan provides a free tier and unlimited use at a cost.</p> <p>You can set limits to manage your costs.</p>

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

The screenshot shows the IBM Cloud user interface. On the left, a sidebar under the 'Containers' heading lists 'Overview', 'Serverless', 'Cluster management', 'Container Registry', 'Get started' (which is highlighted with a blue bar), 'Namespaces', 'Repositories', and 'Images'. The main panel displays the 'Container Registry quick start' page. At the top of this panel is a search bar and navigation links for 'Catalog' and 'Manage'. Below the title, there is a 'Location' dropdown menu currently set to 'Dallas'. A 'Welcome!' message follows, with instructions to get started by installing CLIs, setting up a namespace, and pushing an image.

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



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

# Namespaces

Location

Dallas



Resource group: Filter...



Search



Name

Resource group

Repository count

In



## Namespaces

Your namespaces will live here after you create them.





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

# Namespaces

Location

Dallas



Resource group: Filter...



Search



Name

Resource group

Repository count

In



## 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



Resource group: Filter...



Search



Name

Resource group


Repository count

In



## 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



## 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



## 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

<input type="checkbox"/>	Name	Resource group	Repository count	Im
<input type="checkbox"/>	 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