



Object Storage: Create and Manage OCI Object Storage

Lab 5-1 Practices

Get Started

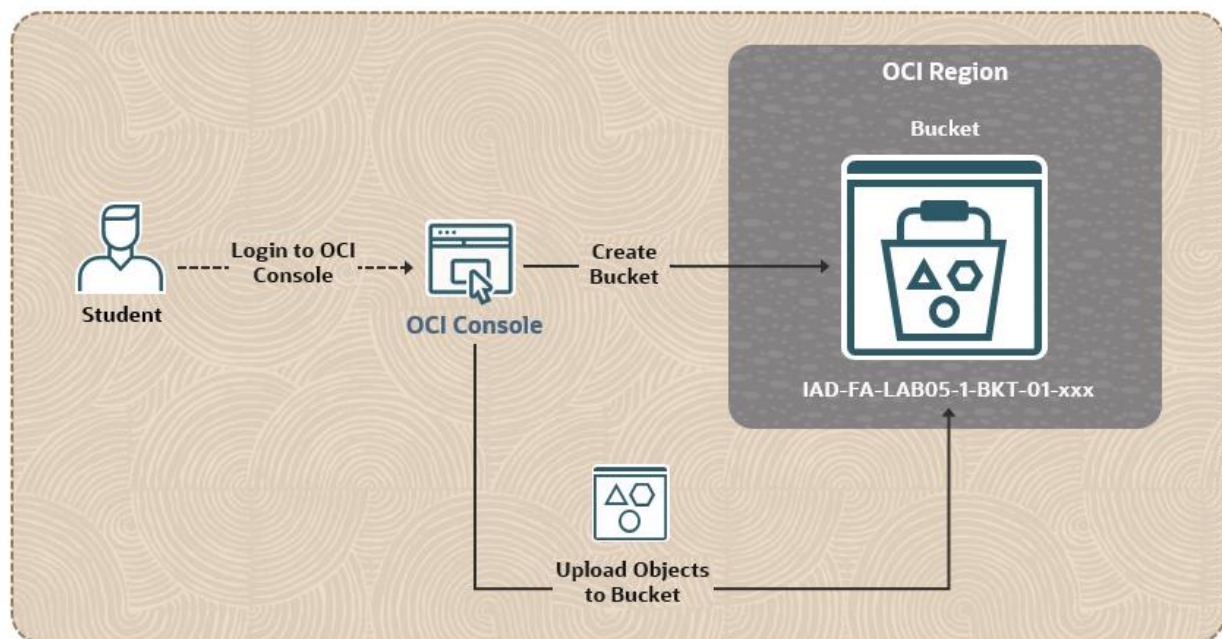
Overview

The Oracle Cloud Infrastructure (OCI) Object Storage provides unlimited capacity with high durability and scalability. It is highly reliable and cost efficient. The object storage resources include namespace, bucket, and object.

Object Storage is characterized by strong consistency and security with encryption. By creating unlimited buckets, you can add as many objects as required with a maximum of 10TiB per object. In this lab, you will work on buckets, object versioning, object life cycle management, replication policy, and retention rule.

In this lab, you will:

- Create an Object Storage bucket
- Upload an object to a bucket



Prerequisites

- You have access to the OCI Console.

Assumptions

- In this lab, we are considering US East (Ashburn, Region Key – IAD) as your region.
- You must be familiar with navigating the OCI Console.

Create an Object Storage Bucket

In this practice, you will create an Object Storage bucket.

Tasks

1. Sign in to your OCI account.
2. From the **Main Menu**, select **Storage**.
3. Under **Object Storage** and **Archive Storage**, click **Buckets**.
4. From the left navigation panel, select the compartment in which you have permission to work. Then the page updates to display only the resources in that compartment.
5. Click **Create Bucket**.
6. In the **Create Bucket** dialog box, specify the following attributes of the bucket:
 - **Bucket Name:** Enter `IAD-FA-LAB05-1-BKT-01-xxx` as the name for the bucket. Specify a random number in place of xxx to make it unique.
 - **Default Storage Tier:** Select the default tier in which you want to store the data. After it is set, you cannot change the default storage tier of a bucket. When you upload objects, this tier will be selected by default. You can, however, select a different tier. In this case, select **Standard**, which is the primary and default storage tier used for Object Storage.
 - **Enable Auto-Tiering:** Auto-Tiering helps you automatically move objects between Standard and Infrequent Access tiers based on their access patterns. Do not enable this field now.
 - **Enable Object Versioning:** Versioning directs Object Storage to automatically create an object version each time a new object is uploaded, an existing object is overwritten, or when an object is deleted. You can enable it while creating a bucket or later. Do not enable this field now.
 - **Emit Object Events:** Emit Object Events lets the bucket emit events for object state changes. Do not select this field now.
 - **Uncommitted Multipart Uploads Cleanup:** Uncommitted Multipart Uploads Cleanup allows deletion of uncommitted or failed multipart uploads. Do not select this field now.

- **Encryption:** Buckets are encrypted with keys managed by Oracle by default, but you can optionally encrypt the data in this bucket using your own vault encryption key. Select the **Encrypt using Oracle managed keys** option.
- **Tags:** If you have permissions to create a resource, then you also have permissions to apply free-form tags to that resource. Skip this option. You can always apply tags later.

7. Click **Create**.

The bucket is created immediately, and you can add objects to it.

Upload an Object to a Bucket

In this practice, you will upload an object to your bucket. Object Storage supports uploading individual files up to 10 TiB.

Before you upload an object to a bucket, you must have a bucket. In this case, you will use the bucket that is created from the previous practice.

Tasks

1. In the **Main Menu**, navigate to **Storage**, and then select **Buckets**.
2. Click the bucket **IAD-FA-LAB05-1-BKT-01-xxx** to view its details.
3. Under **Objects**, click **Upload**.
4. In the **Object Name Prefix** field, enter the file name prefix `oci/` for the files you plan to upload. This step is optional.
5. The **Storage Tier** field is populated as **Standard**. You can optionally change the storage tier (to Infrequent Access or Archive) to upload objects. In this case, keep it as **Standard**.
6. Select the objects to upload (browse any object from your local machine) by using one of the following options:
 - Drag files from your computer into the **Drop files here...** section.
 - Click the **Select Files** link to display a file selection dialog box.

As you select files to upload, they are displayed in a scrolling list. If you decide that you do not want to upload a file that you have selected, click **X** to the right of the file name.

If selected files to upload and files already stored in the bucket have the same name, warning messages to overwrite are displayed.

7. Click **Upload**.

The selected objects are uploaded. Click **Close** to return to the bucket.

