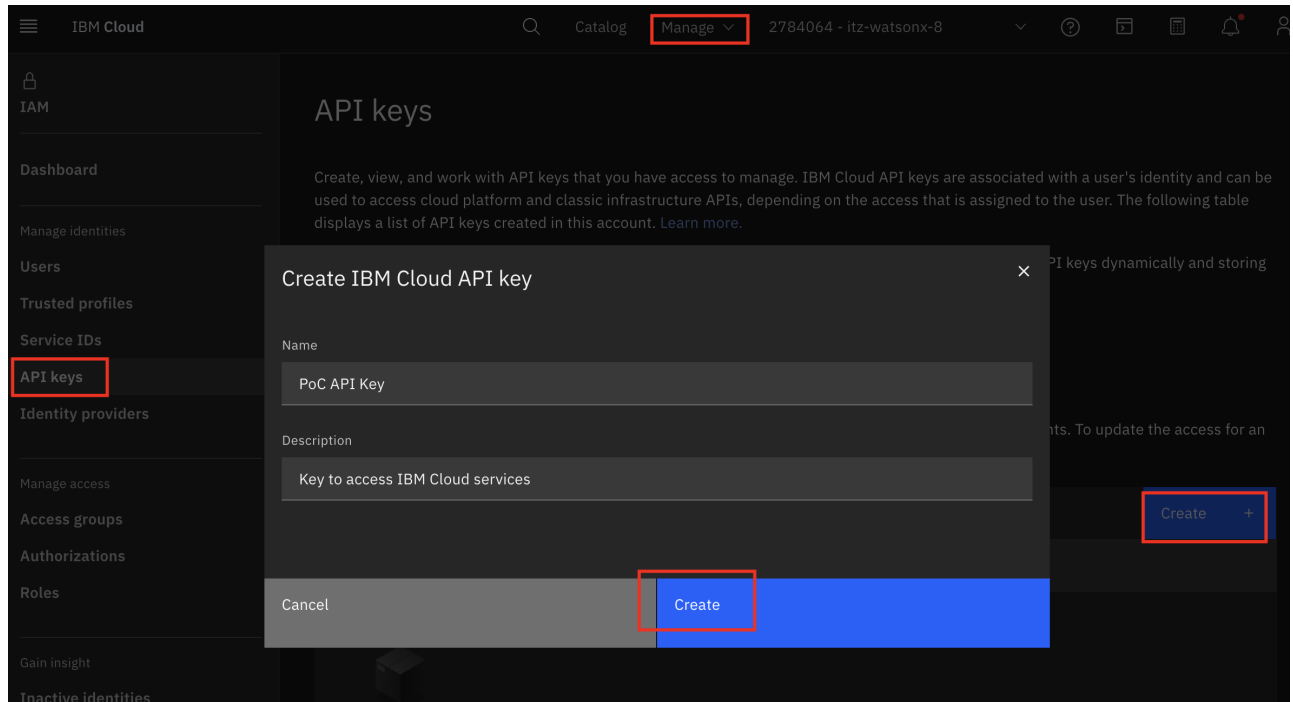# Setup instructions

Setting up the RAG service.

1. **Provision API key**
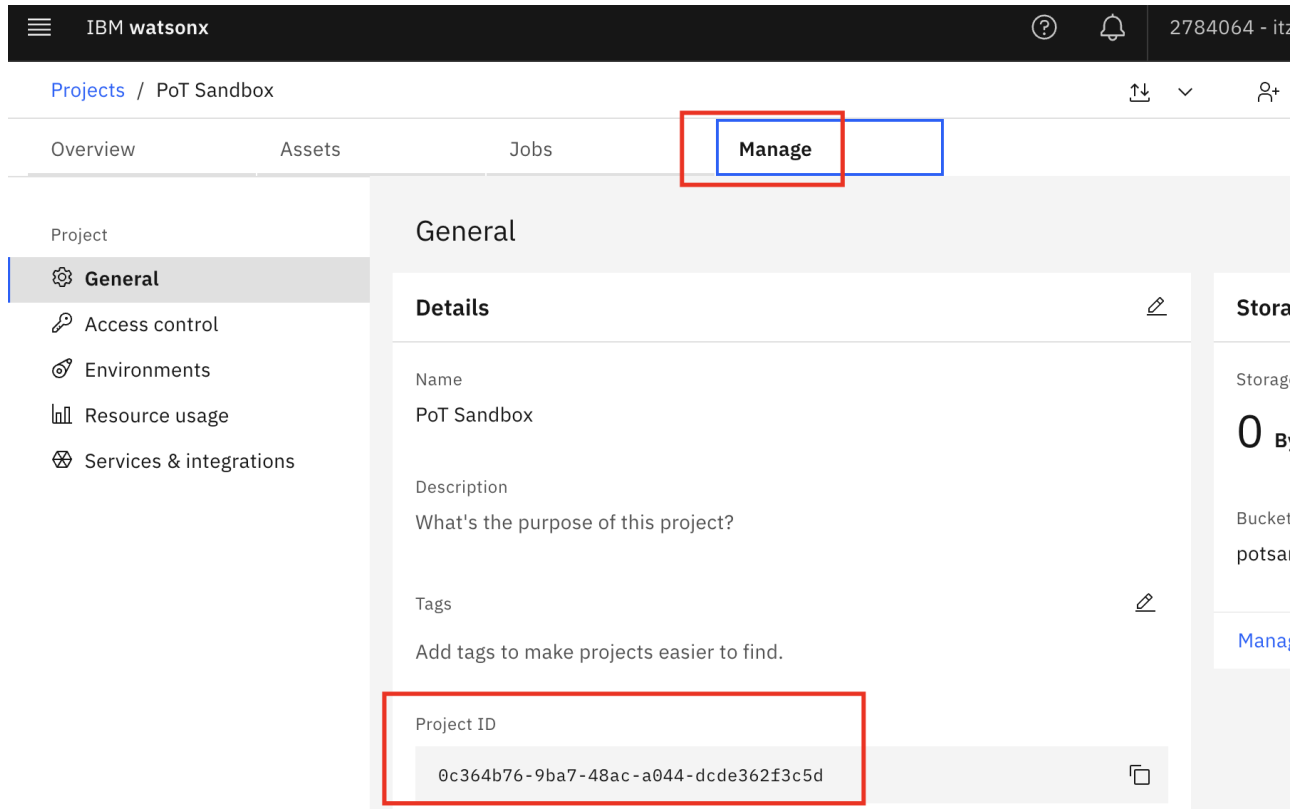
   From the IBM Cloud Console, follow the menu options `Manage > Acess (IAM) > API Keys` and click `Create` button to get to the screen shown in the picture below.

   Save the API key for later use.

2. **Select watsonx project ID:**

   From watsonx Studio hamburger menu, select `Project > View all Projects`. Pick a project or create a new project. Find Project ID under `Manage > General`.

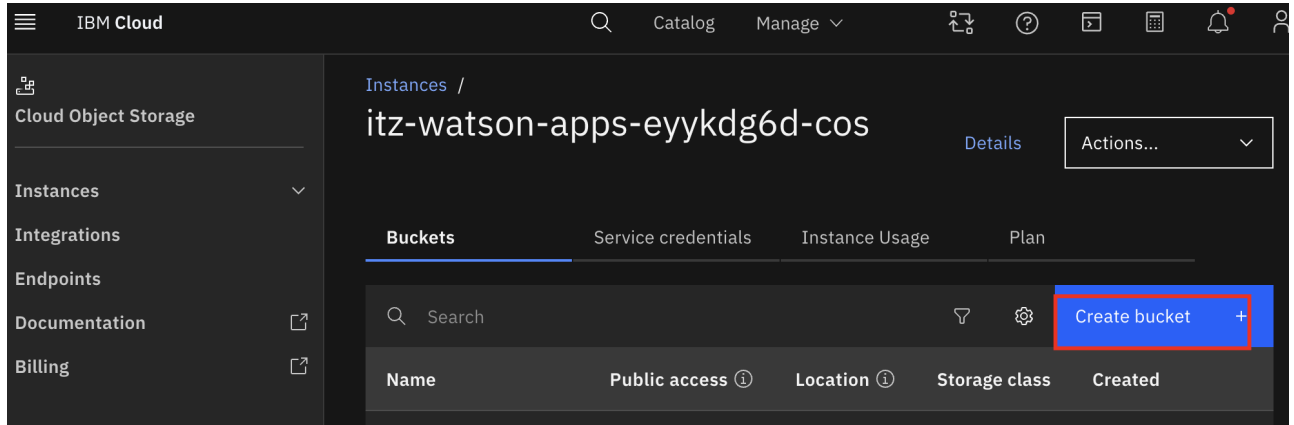Save the id for later use.

3. **Get Cloud Object Storage credentials:**

   `Resource list > Storage` select the Cloud Object Storage service. Select the `Service credentials` and click on `New Credential`. Create a key with `Reader` Role as shown in the picture below.
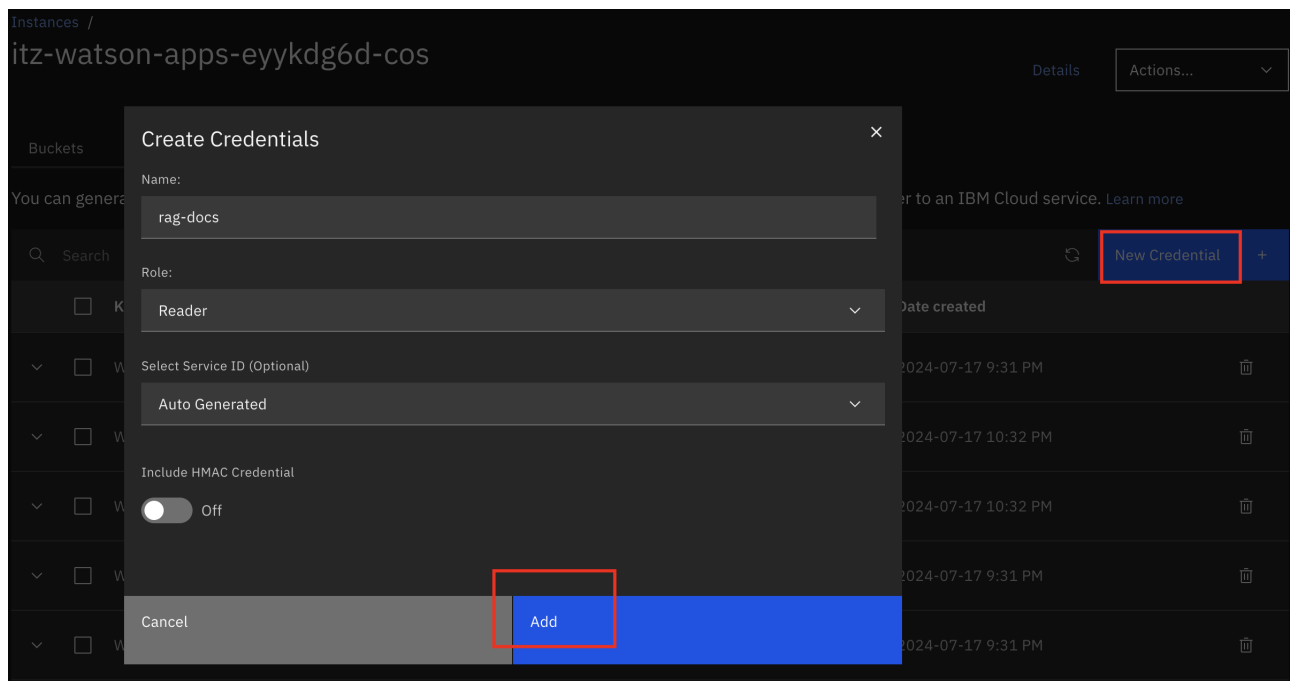
Copy a) "apikey" & b) "resource_instance_id"

4. **Setup COS bucket:**

Create COS bucket for RAG doc storage.

Create custom bucket.

Goto `bucket > Configuration > Endpoints`. Save the public endpoint for later use.

5. **Get watsonx Discovery credentials:**

Get the username, password and watsonx Discovery URL form the TechZone reservation page. 111

6. **Setup environment variables:*1

Property	Value
RAG_APP_API_KEY	User set password to access RAG APIs.
IBM_CLOUD_API_KEY	Use the key set in step 1.
WX_URL	https://us-south.ml.cloud.ibm.com
WX_PROJECT_ID	Use the ID retrieved in step 2.
COS_IBM_CLOUD_API_KEY	Use the ID retrieved in step 3-a).
COS_ENDPOINT_URL	Use the end point retrieved in step 4.
COS_INSTANCE_ID	Use the id retrieved in step 3-b).
WXD_USERNAME	Use the ID retrieved in step 5.
WXD_PASSWORD	Use the ID retrieved in step 5.
WXD_URL	Use the ID retrieved in step 5.

IBM Code Engine > Projects