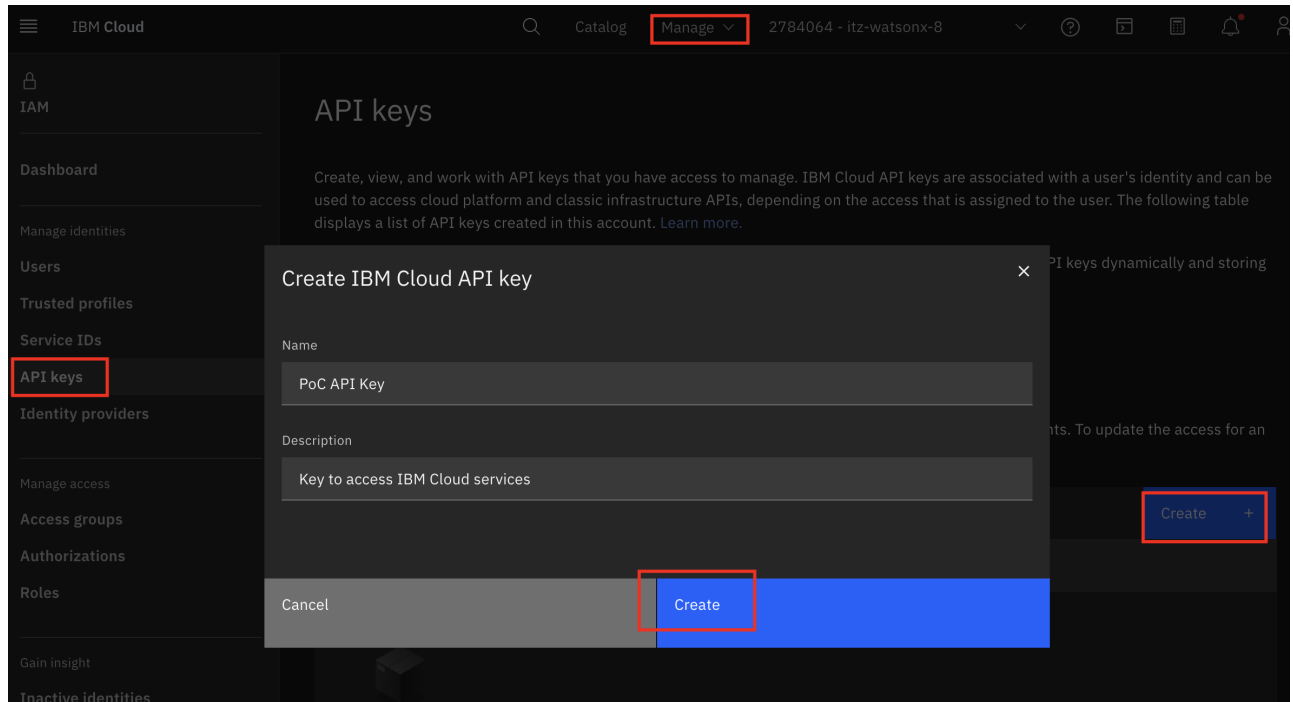


# Setup instructions

Setting up the RAG service.

## 1. Provision API key

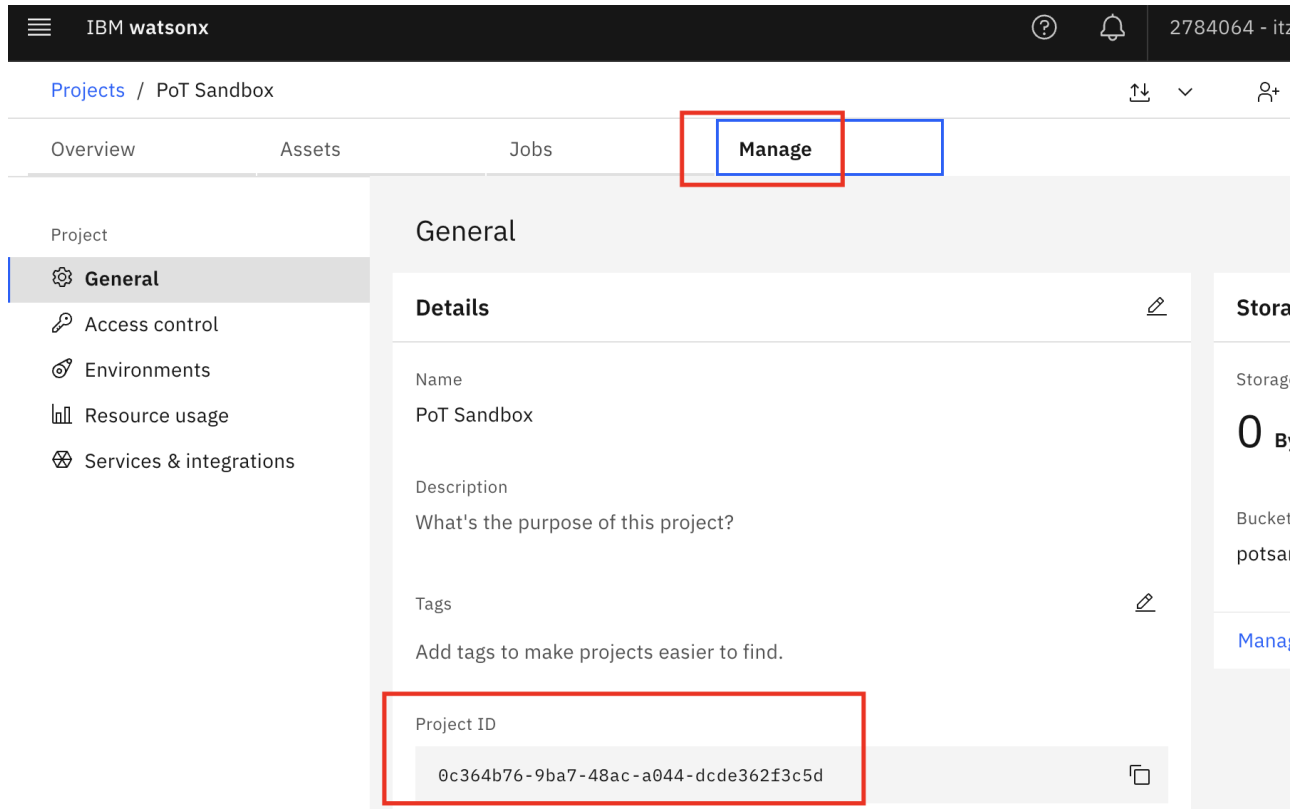
From the IBM Cloud Console, follow the menu options **Manage > Access (IAM) > API Keys** and click **Create** button to get to the screen shown in the picture below.



Save the API key for later use.

## 2. Select watsonx project ID:

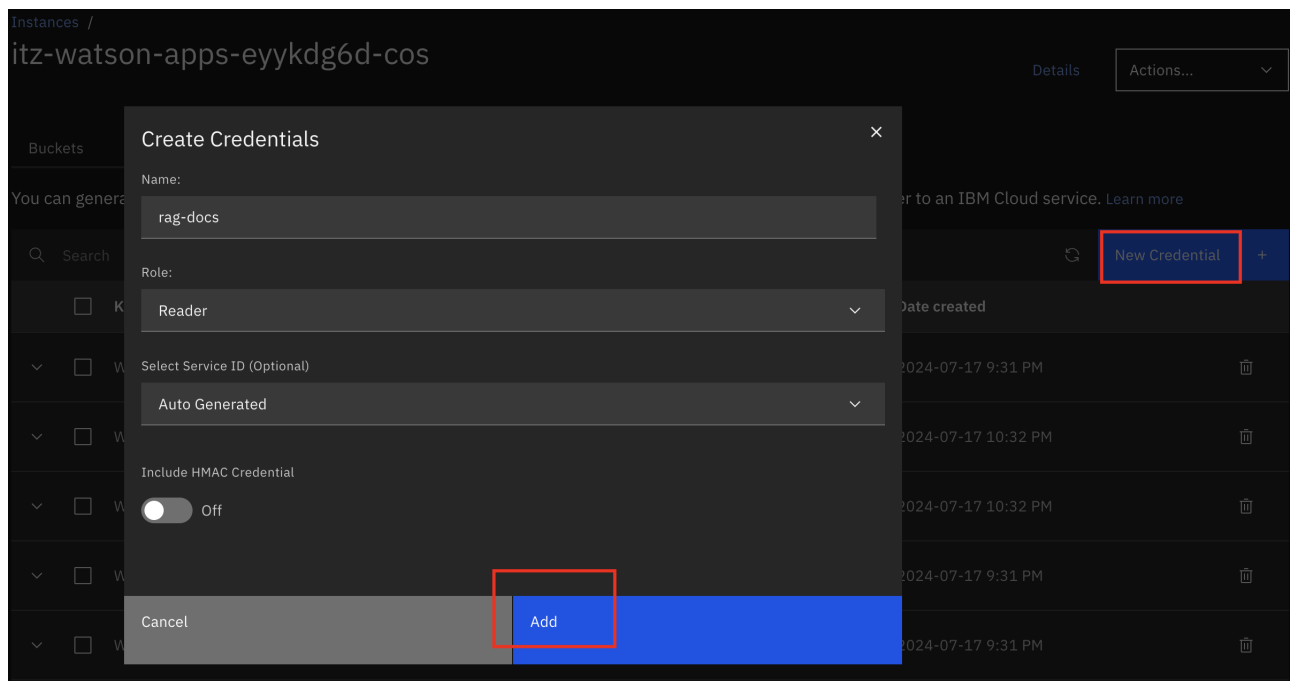
From **watsonx Studio** hamburger menu, select **Project > View all Projects**. Pick a project or create a new project. Find Project ID under **Manage > General**.



Save the id for later use.

### 3. Get Cloud Object Storage credentials:

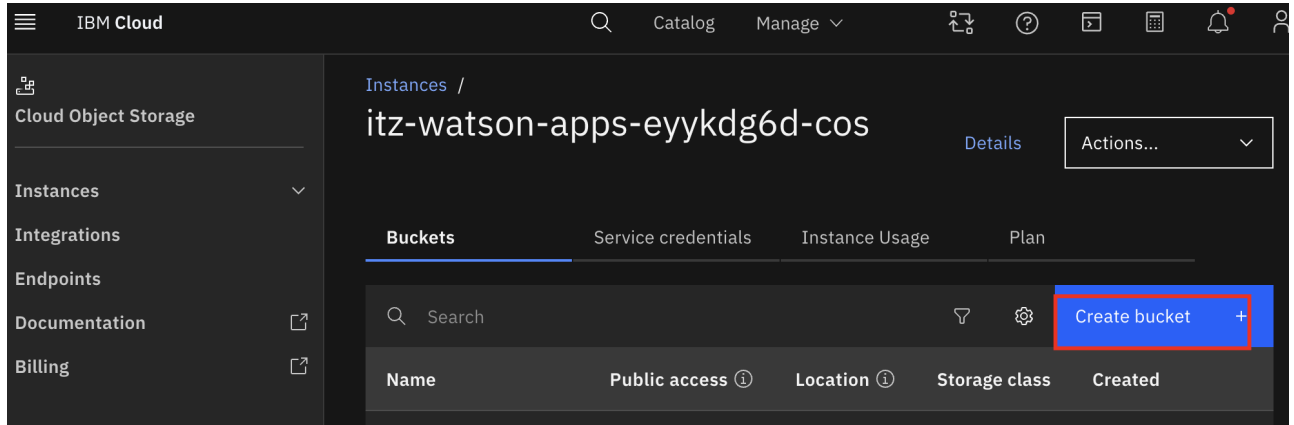
**Resource list > Storage** select the Cloud Object Storage service. Select the **Service credentials** and click on **New Credential**. Create a key with **Reader** Role as shown in the picture below.



Copy a) "apikey" & b) "resource\_instance\_id"

### 4. Setup COS bucket:

Create COS bucket for RAG doc storage.



Create custom bucket.

### Create custom bucket

Unique bucket name

**Bucket naming rules:**

- Must be unique across the **whole** IBM Cloud Object Storage system
- Do not use any personal information (any part of a name, address, financial or security accounts or SSN)
- Must start and end in alphanumeric characters (3 to 63)
- Characters allowed: lowercase, numbers and nonconsecutive dots and hyphens

**Resiliency** [View options](#)

A bucket's resiliency is defined by the endpoint used to create it.

**Cross Region**

Highest availability

**Regional**

Best performance

**Single Site**

Data sovereignty

⚠ Resiliency cannot be modified after provisioning

**Location** [View options](#)

Select a location where you would like your data to be physically stored.

United States - Dallas (us-south)

⚠ Location cannot be modified after provisioning

**Storage class** [View pricing](#)

Choose storage class based on how often you expect to read the stored data. Pricing varies for each option.

**Smart Tier** Free-Tier enabled

Smart Tier automatically gives you the lowest storage rate based on your monthly activity.

**Standard**

For active workloads that require higher performance and low latency and where data needs to be accessed frequently.

Cancel
Create 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