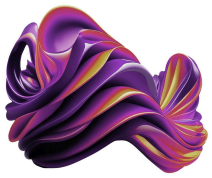
Montréal

GDC Sandbox Workshop



Lab Guide

The goal of the workshop is to impart participants with an understanding of GDC sandbox and practical knowledge to deploy workloads.To ensure a smooth experience during the workshop, attendees are requested to install the necessary developer tools beforehand.

The lab section of the workshop is specifically designed for developers and requires these tools to complete the assigned tasks.

Pre- Requisites:

Bring Your Own Device with Admin access or have access to a **Virtual Desktop** with Admin access.

Developer Tools:

1. Enable WSL (If you're running a Windows)

   Guide: https://learn.microsoft.com/en-us/windows/wsl/install

2. Install Git

   Guide: https://git-scm.com/install/linux

3. Install VSCode (IDE)

   Guide: https://code.visualstudio.com/download

4. Install gcloud CLI. (Google Cloud Toolkit)

   Guide: https://docs.cloud.google.com/sdk/docs/install#linux

You may skip the installation instructions if the required developer tools are already present on your workstation.

Lab steps:

1. **Clone the repo locally.**

   Once all Prerequisites are installed, clone the repo locally on your machine.

   Git clone https://github.com/manzalam-gcp/gdc-sandbox-workshop.git

2. **Edit the .env file in vi on VSCode**

   ```
   cd ~/gdc-sandbox-workshop
   cp .env.example .env

   # edit .env for specifics
   vi .env
   ```

3. **Run source .env**

4. **Establish the IAP tunnel**

   ./sandbox.sh tunnel

5. **RDP into your Sandbox jumpbox with your assigned sandbox user.**

6. **Clone the repo locally on sandbox.**

   Open a terminal and clone the repo locally.

   Git clone https://github.com/manzalam-gcp/gdc-sandbox-workshop.git

7. **From your workstation copy the .env file to the sandbox.**

   ./sandbox.sh env

8. **Edit the project_config file with your landing zone info**

   vi projects_config.yaml

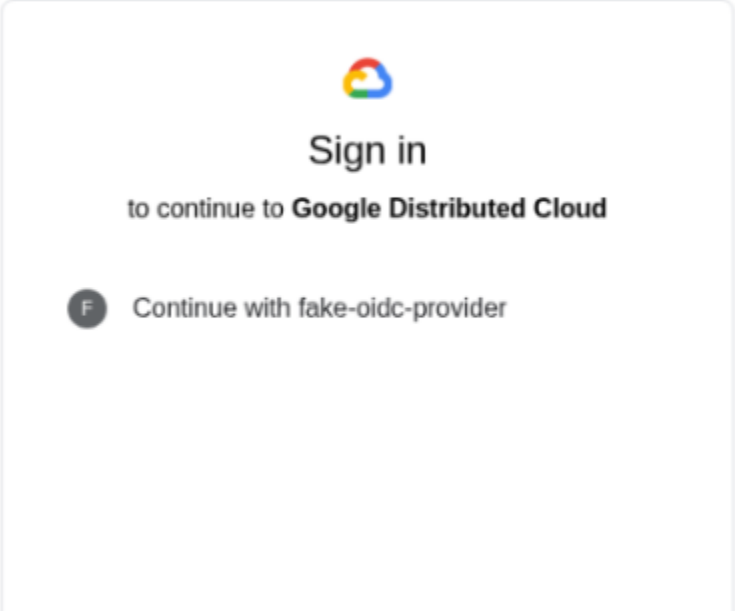
9. **Copy the Landing Zone config file to the sandbox.**

   ./sandbox.sh config

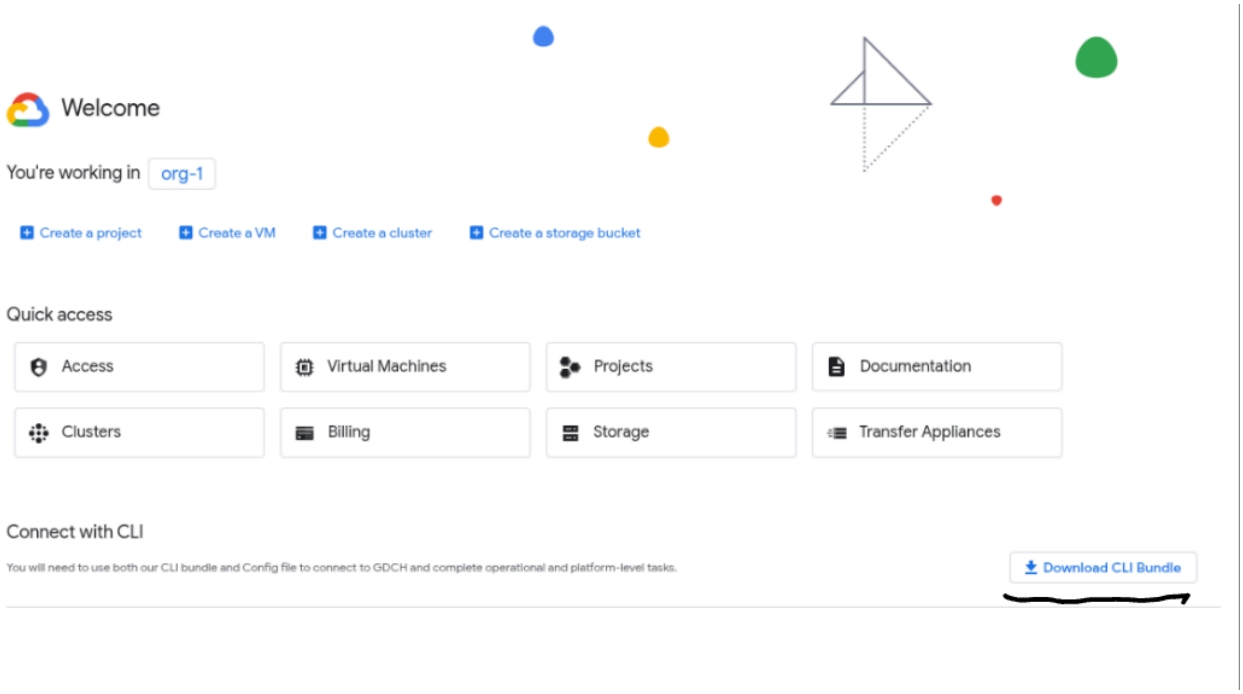
Landing Zone

1. **Download the GDCloud toolkit from the GDC Console.**

   Navigate to the GDC Console: https://console.org-1.zone1.google.gdch.test



2. Login as Platform Admin
3. Download the CLI bundle from the landing page.



4. Run './000-install-gdcloud.sh' to install GDCloud toolkit

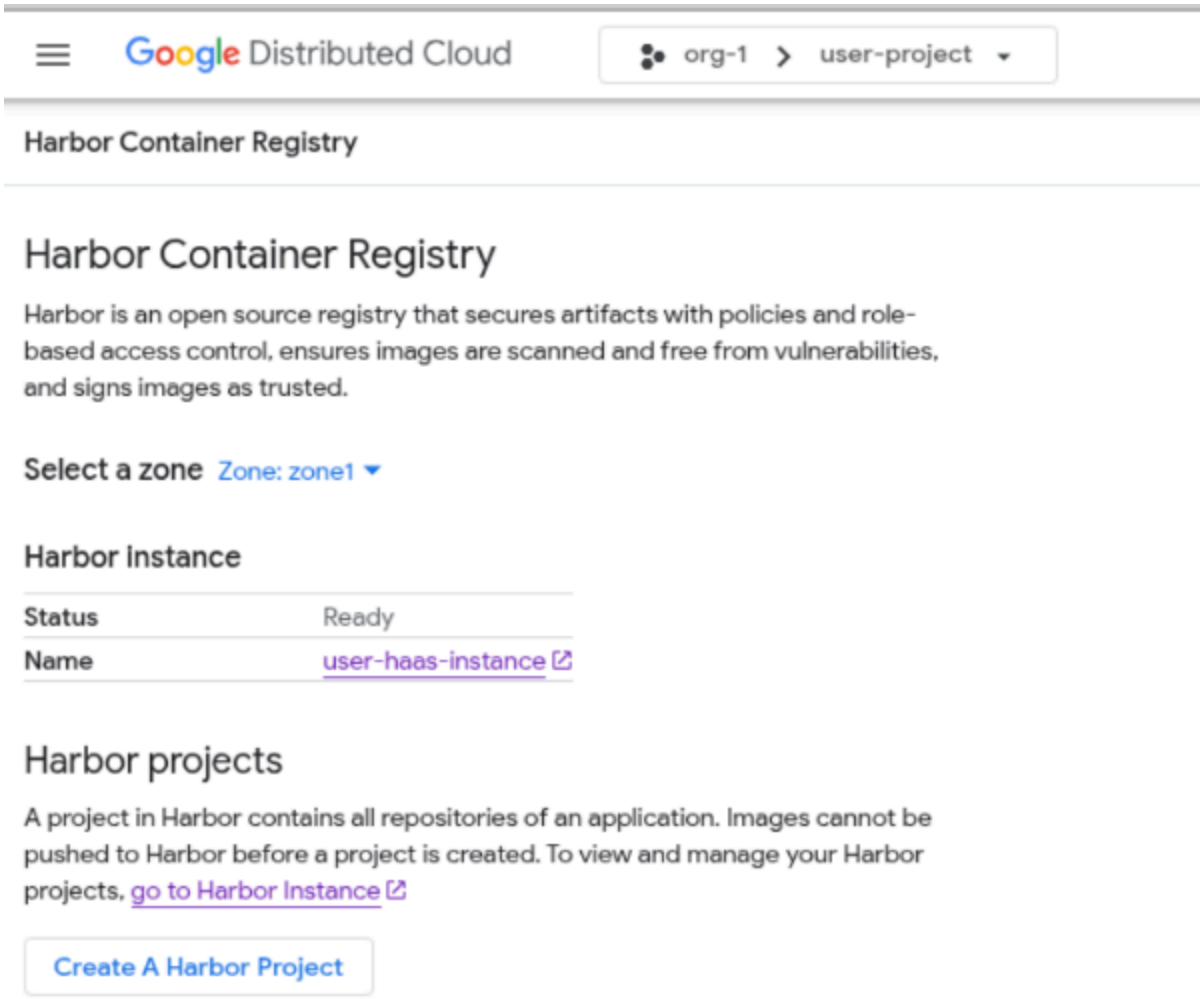
5. Run ./001-create-projects.py to create your workloads Project

6. Run ./002-apply-role-bindings.py Create your users and apply role bindings to your project

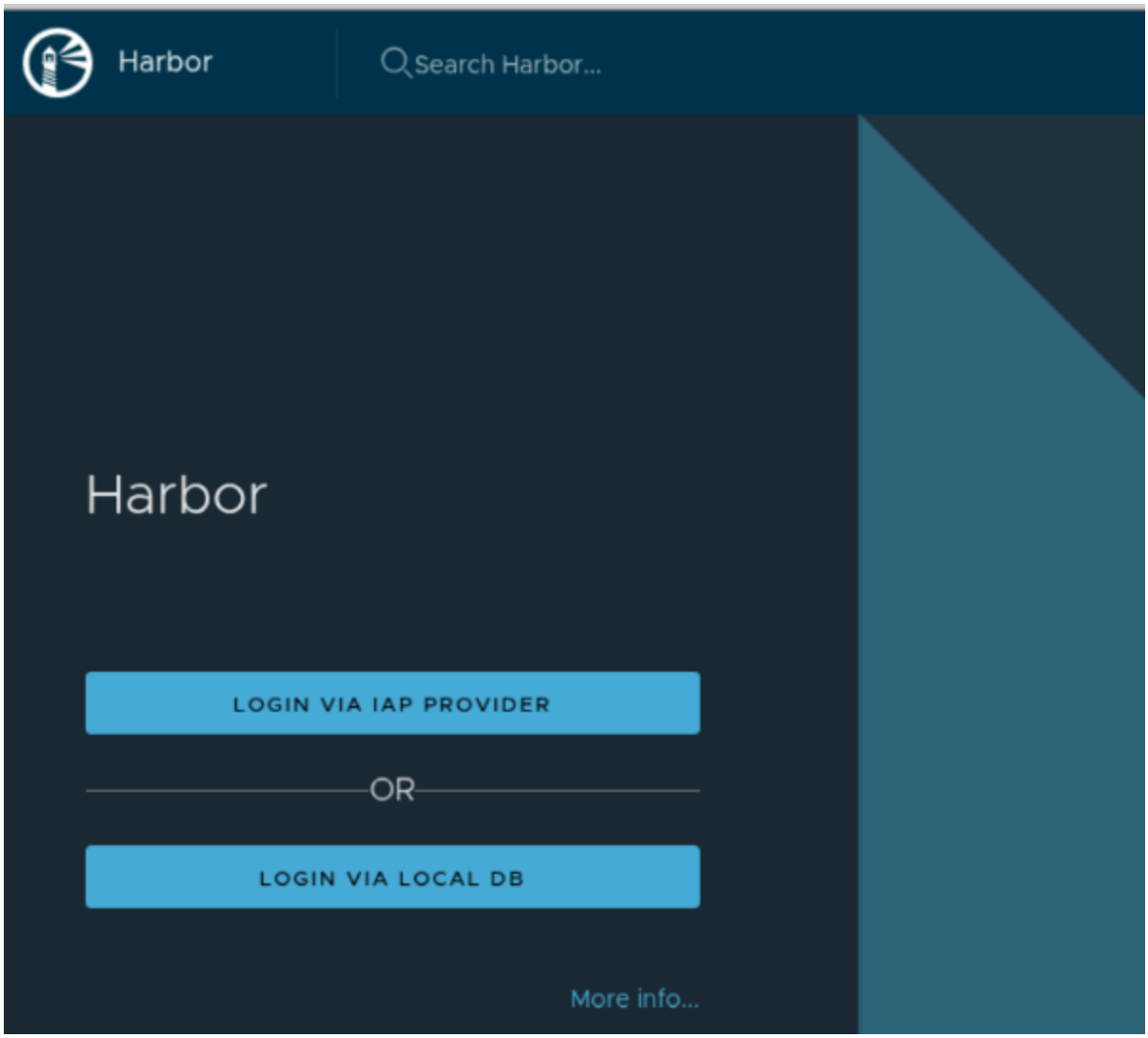
7. Run ./003-createharborproject.py Create your project on the Harbor Instance

8. Log into Harbor, generate a user secret

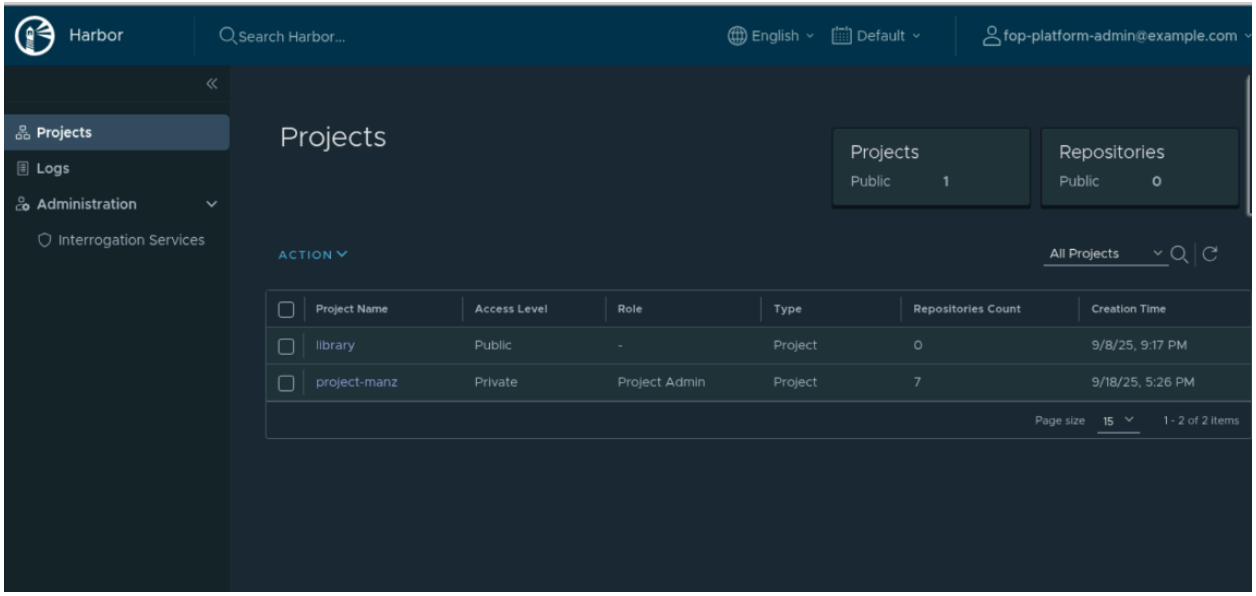
Log into the GDC Sandbox console with your login credentials and navigate to the Harbor menu.



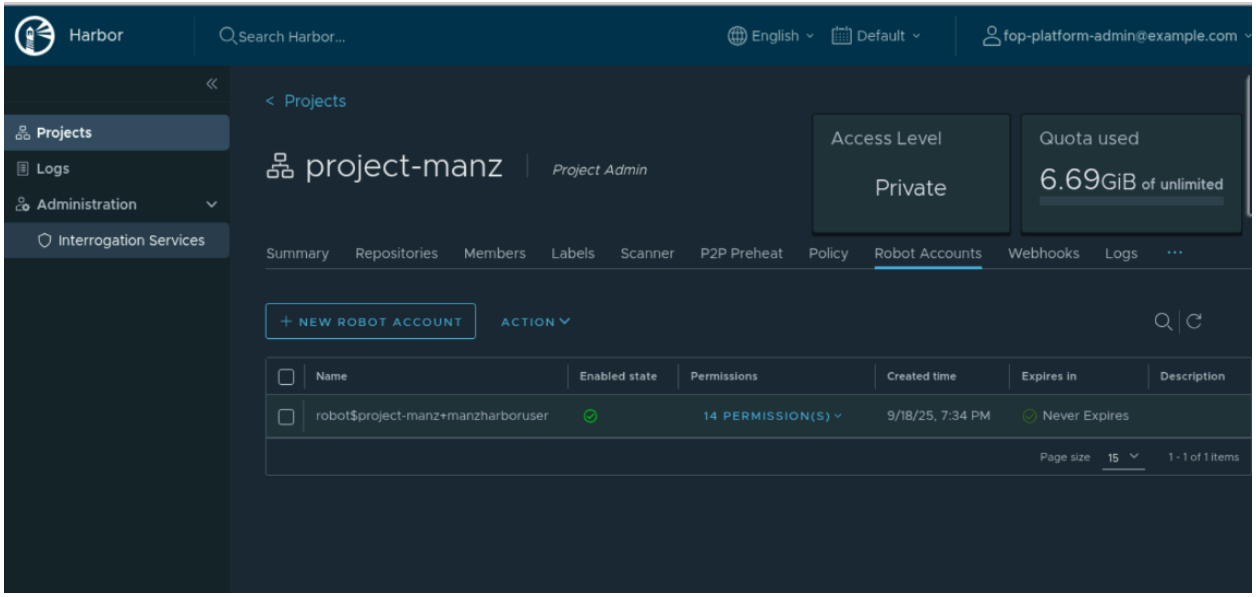
Click on “Login via IAP provider”



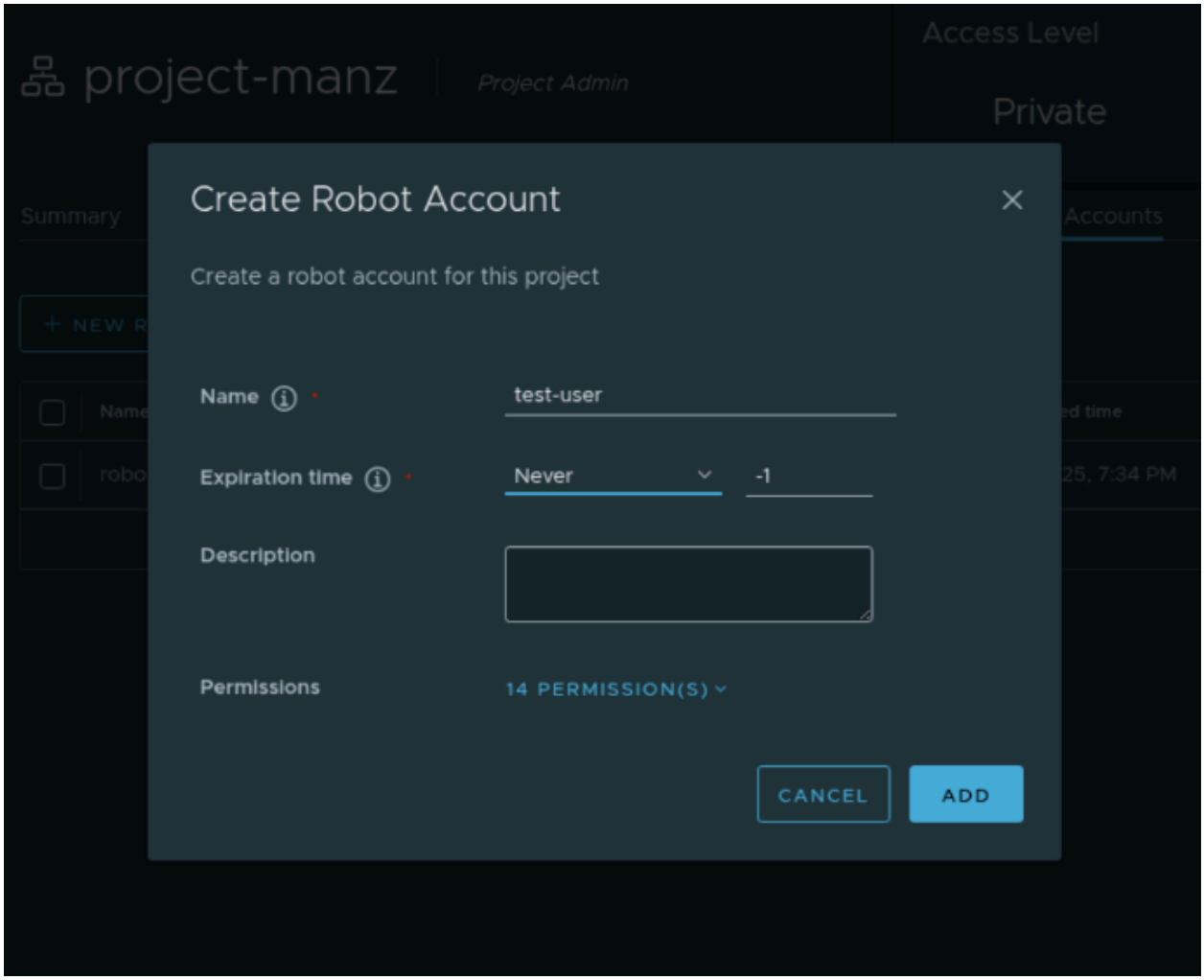
Click on your project

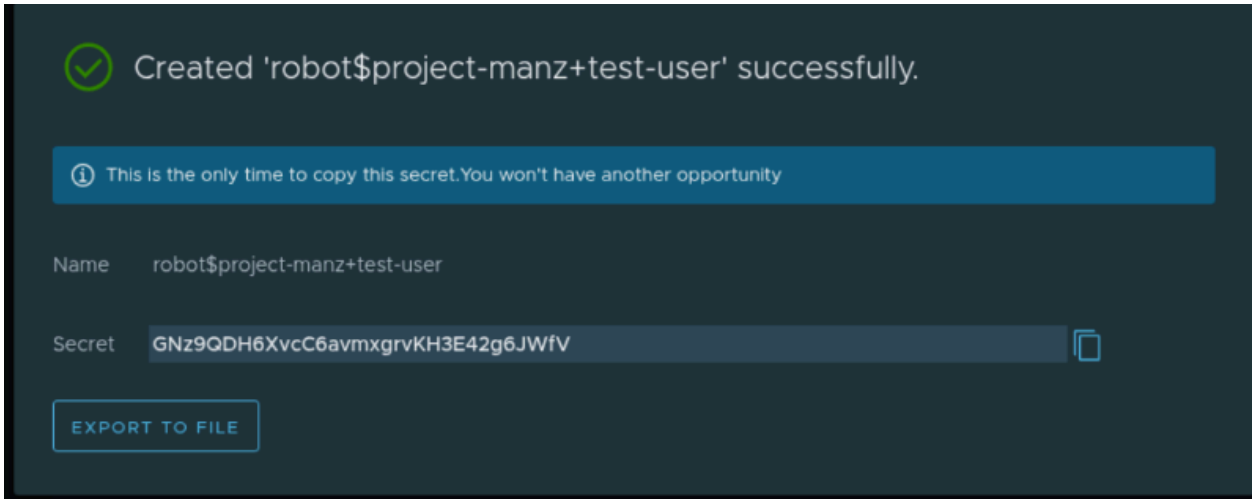


Click on “robot Accounts”



Create the Robot account and copy the secret.


project-manz
Project Admin
Access Level
Private
Summary
Accounts
Create Robot Account
Create a robot account for this project
Name
test-user
Expiration time
Never
-1
Description
Permissions
14 PERMISSION(S)
CANCEL
ADD


Created 'robot$project-manz+test-user' successfully.
This is the only time to copy this secret.You won't have another opportunity
Name
robot$project-manz+test-user
Secret
GNz9QDH6XvcC6avmxgrvKH3E42g6JWfV
EXPORT TO FILE

Update the harbor username and password in the .env file with the stored username and secret:

HARBOR_USERNAME='robot$project_name+harbor'

HARBOR_PASSWORD=nnnnnmmmmm111111

9. Run ./004-addharborsecret.py Create docker registry secret

Labs
Lab 1 - Deploy HTML Server

Follow the Lab Guide on Github:
https://github.com/manzalam-gcp/gdc-sandbox-workshop/blob/main/LAB-1.md

Lab 2 - Deploy API Server

Follow the Lab Guide on Github:
https://github.com/manzalam-gcp/gdc-sandbox-workshop/blob/main/LAB-2.md

Lab 3 - Deploy Elasticsearch

Follow the Lab Guide on Github:
https://github.com/manzalam-gcp/gdc-sandbox-workshop/blob/main/LAB-2.md