Module 2: Managing GCP

Assignment Solution - 2

edureka!

Problem Statement:

Focus Area: Cloud SDK, GCP Projects

The Logistics company Highway-63 has a developer team, a quality assurance team, and the audit team. All the teams need isolation between their resources and should have complete network isolation. The developer team wants to create a virtual machine programmatically instead of using Google Cloud Console. The audit team wants to see all the activity and logs of all the applications.

Steps:

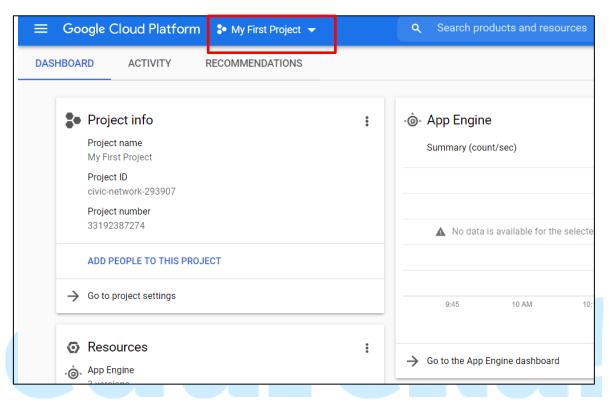
- 1. Create 3 projects for 3 teams.
- 2. Use GCloud SDK to deploy VM instead of Console.
- 3. Find the logs on the server in the Cloud logging and API activity under Google Activity



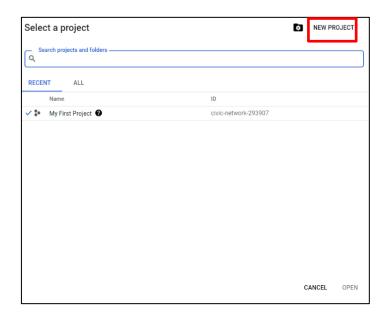
Solution:

Step-1: Create 3 Projects for 3 Environments:

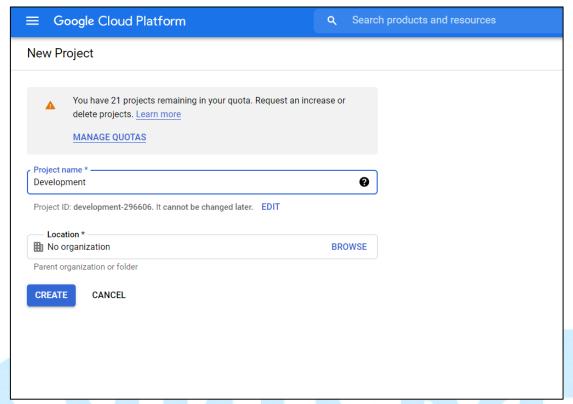
1. Go the Google Cloud Console and Click on the Project ID in the top navigation bar.



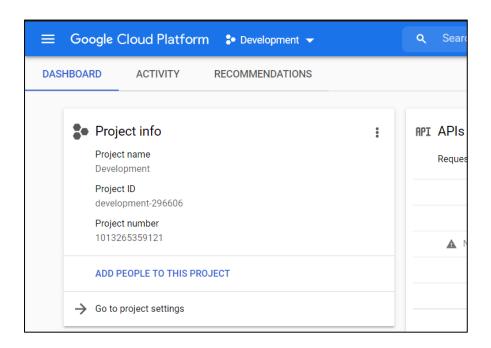
2. Click on New Project on the top right corner.



3. Enter the Project Name and Select the Location (This will be applicable if you are under an organization, you have to select a place in the organization hierarchy) and Click on **Create**



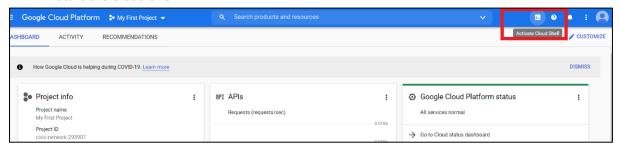
4. After a few seconds the project will be created.



5. Repeat the same process for other projects also.

Step-2: Using GCloud SDK to deploy VM instead of Console.

1. Start the Cloud Shell



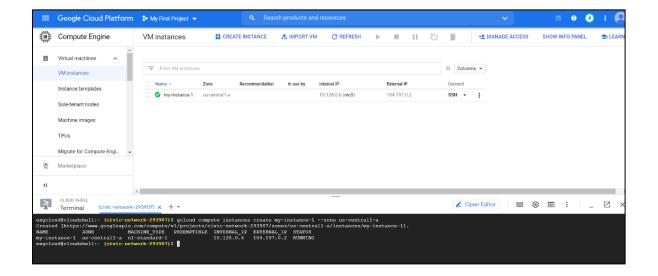
- 2. Set the project id in the shell
- 3. To create a compute engine, we are going to use the following command with some options



gcloud compute instances create

4. First, we are going to make a VM with a default configuration. Run the following command in the shell

gcloud compute instances create my-instance-1 --zone us-central1-a

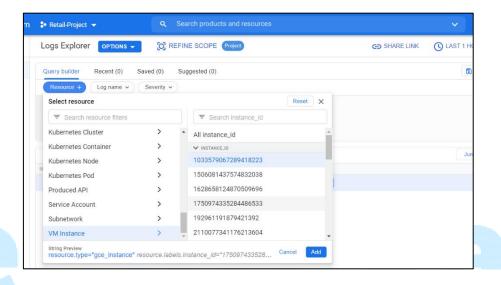


5. There are many customizations we can do to our VM. To know different options available in the SDK, go to the following link to explore:

https://cloud.google.com/sdk/gcloud/reference/compute/instances

Step-3: Find the logs of the VM instance in Cloud Logging

- 1.In the Cloud Console, select **Navigation menu** > **Logging** > **Logs Viewer**.
- 2. Under the search box in the first drop-down, choose VM instance.



3. You can observe the logs of the VM instance created





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