CCL Assignment 5

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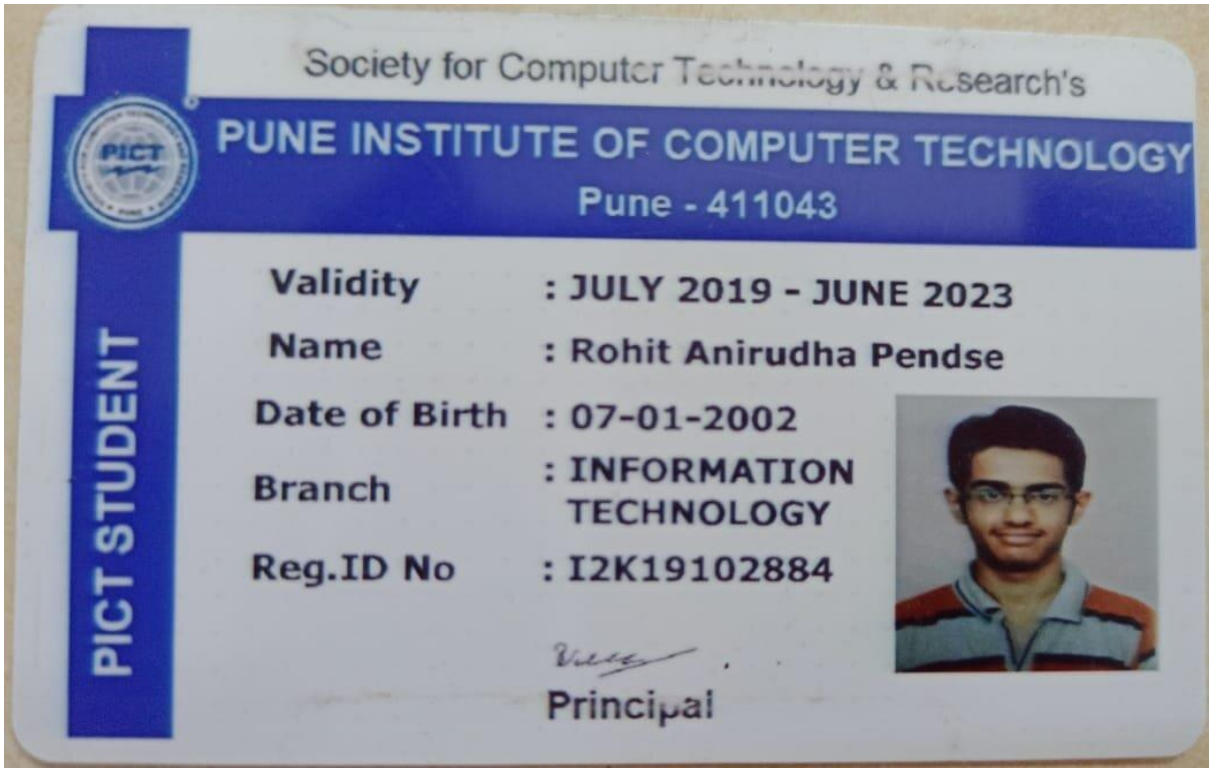
ID card-



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Problem statement:
Find a procedure to launch Virtual machine.

Theory:

Virtual Machine:
Virtual machines allow you to run an operating system in an app window on your desktop that behaves like a full, seperate computer. You can use them play around with different operating systems run software your main operating system can't and try out apps in a safe, sandboxed environment.

A virtual machine app creates a virtualized environment called simply enough, a virtual machine that behaves like a seperate computer system complete with virtual hardware devices. The VM runs a process in a window on current operating system. You can boot an operating system installer disc, inside virtual machine, operating system will be tricked into thinking its running on a real computer It will install and run just as it would on a real, physical machine. Wherever you want to use it, you can open virtual machine program & use it in a window on your current desktop.

In the VM world, operating system actually running on your computer is called host & any operating system running inside VM's are called guests.

The main purpose of VMs is to operate multiple operating systems at the same time, from same place of hardware

Advantages of VM:

- the multiplicity of operating systems
- Reduced Overhead
- Safety Net for Data - Rapid Disaster Recovery and Auto backups.
- scalability
- Centralization

Trystack:
Trystack is a free and easy way for users to try out openstack, and setup their own cloud with networking, storage & computer instances.

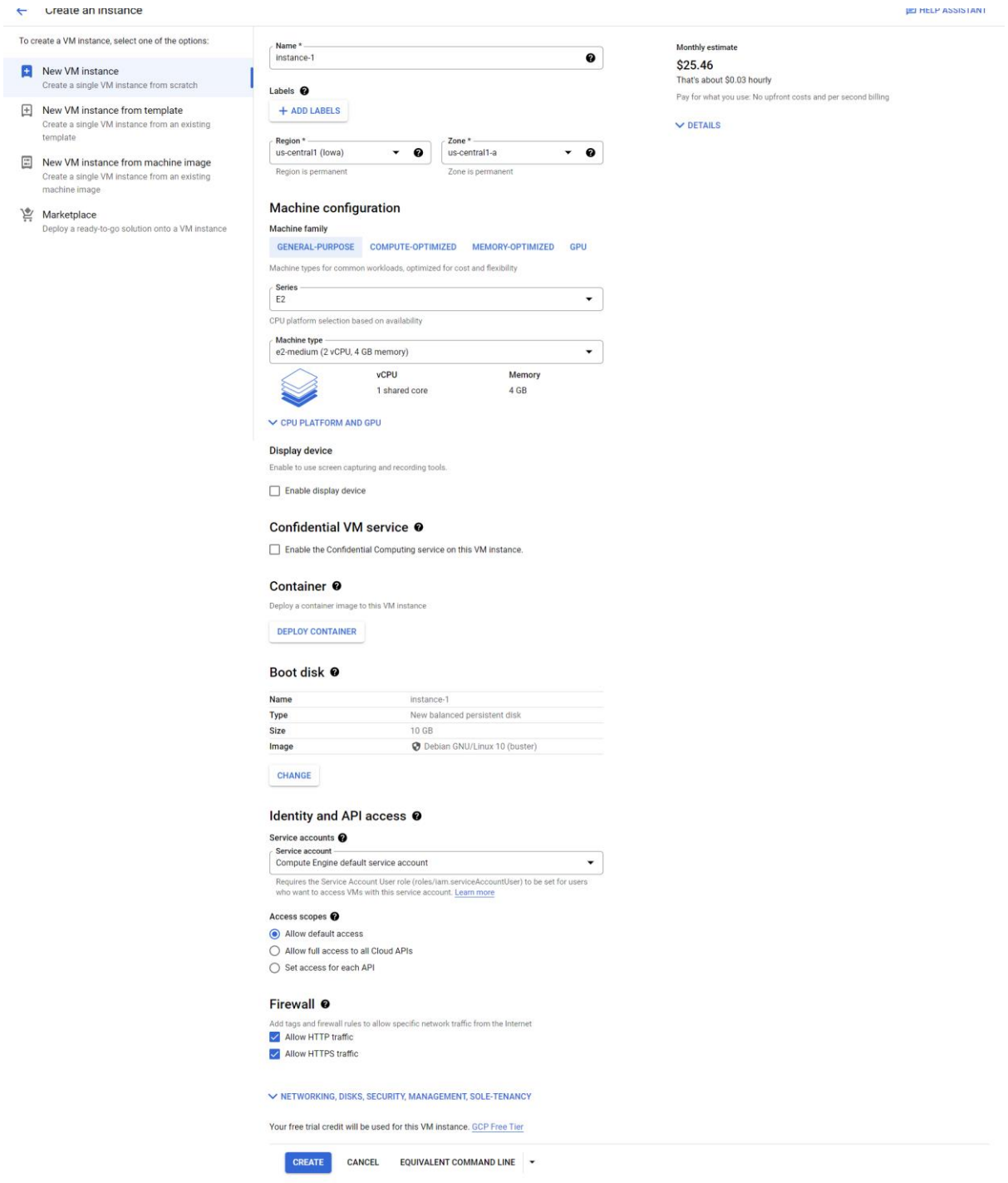
Requirement:
Account on AWS or Azure or Google Cloud

Steps:
- In the Google cloud console, go to Create an instance page
- Go to create an instance
- Specify a Name for your VM. For more information see resource naming convention
- Select a machine configuration for your VM.
- In the boot disk section, click Change change configure your boot disk, and then do the following:

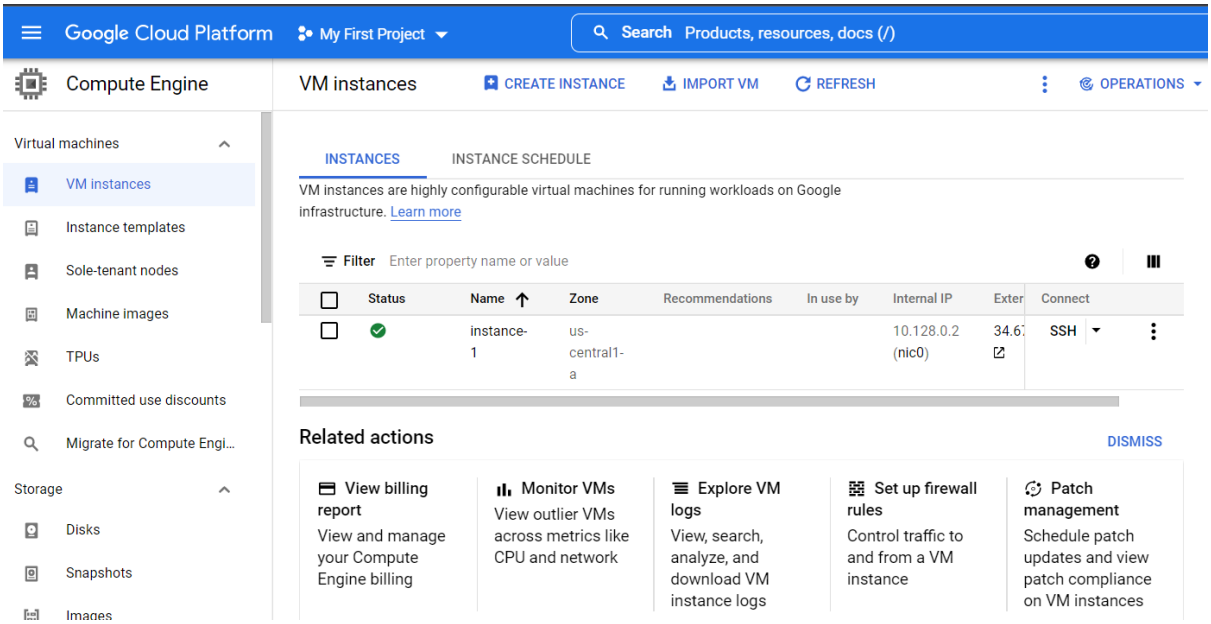
- Select Custom Images tab.
- To select the image project, click select a project and do the following:
  - Click open
  - In the image list, click the image you want to import
  - Select the type & size of your boot disk.
  - To confirm your boot disk options, click select.
- To permit HTTP or HTTPS traffic to VM, in the Firewall section, select Allow HTTP Traffic or Allow HTTPS Traffic
- The cloud console adds a network tag to your VM & creates ingress firewall rule that allows incoming traffic on tcp:80 (HTTP) or tcp: 443 (HTTPS). the network tag associates firewall rule with the VM. For more information, see firewall rules overview in the Virtual Private Cloud documentation.
- To start and create a VM, click create

Output Screenshots:

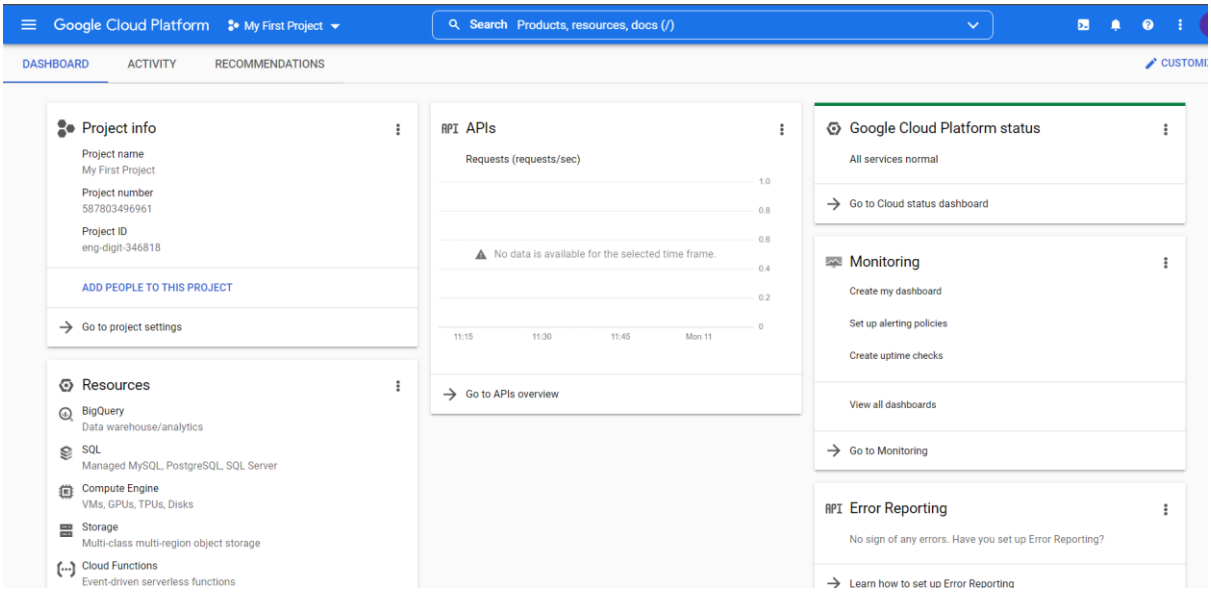
1. Create_instance.png:



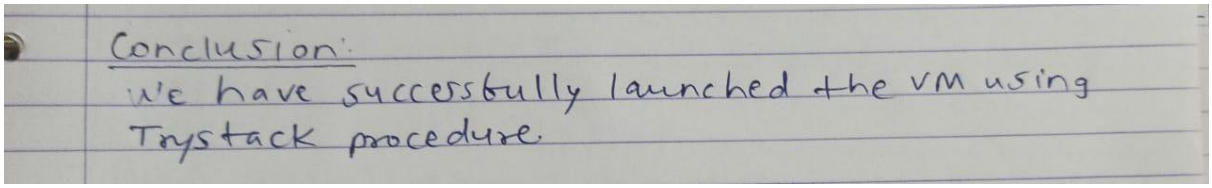
2. Instance_created.png:



3. Project_info.png:



Conclusion:


Conclusion:
We have successfully launched the VM using
Trystack procedure.