## **GCP Architect Training**

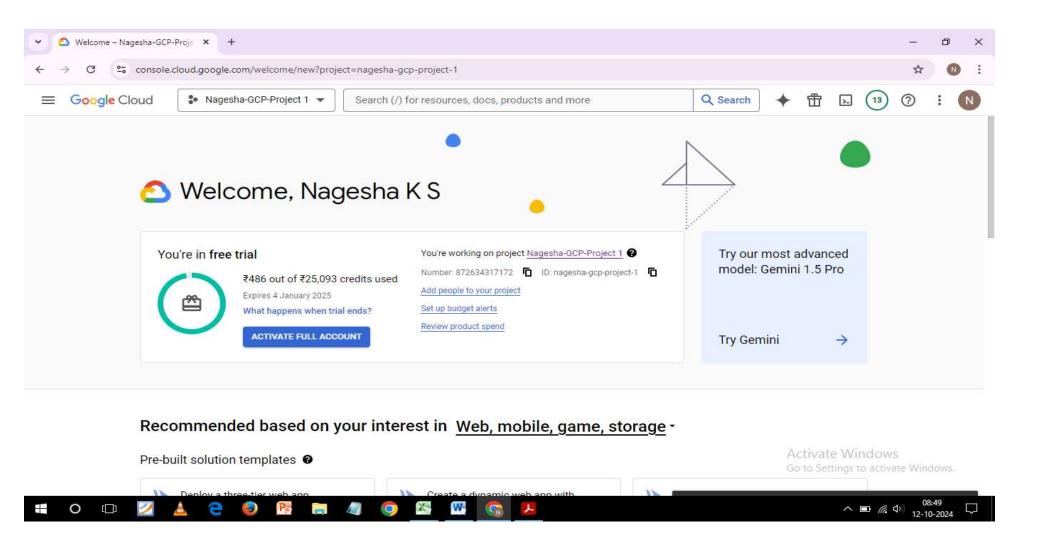
support@intellipaat.com - +91-7022374614 - US: 1-800-216-8930 (Toll Free)

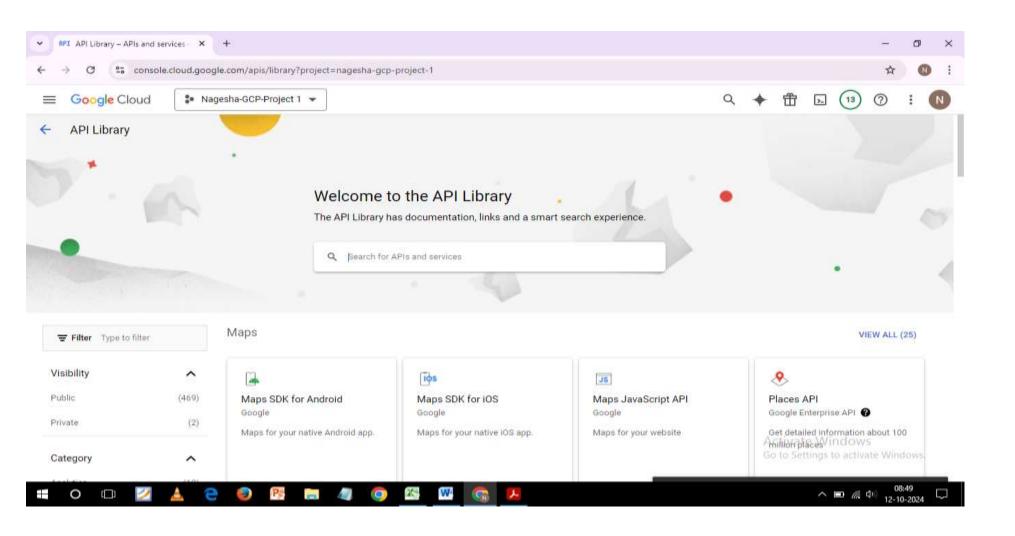
GCP-Module-6-Assignment-1-GCP Cloud Deployment Manager COMPLETED by Nagesha KS Please check the following screenshots for each question.

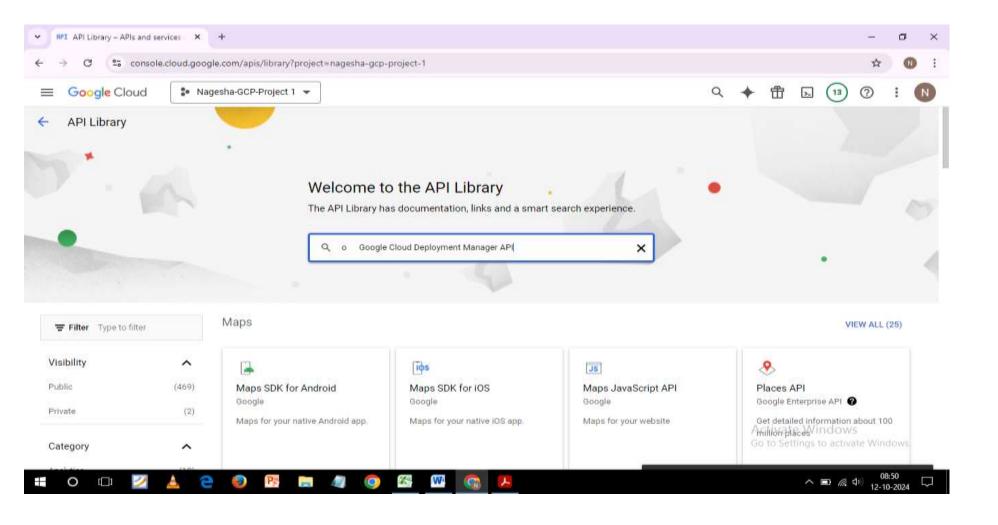
#### **Tasks To Be Performed:**

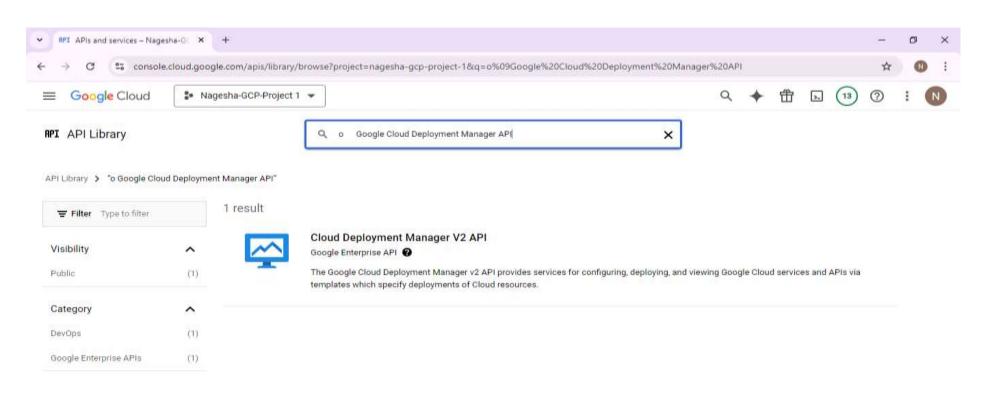
Using Cloud Deployment Manager, deploy the following things:

- 1. Ubuntu VM
- 2. App service of PHP

































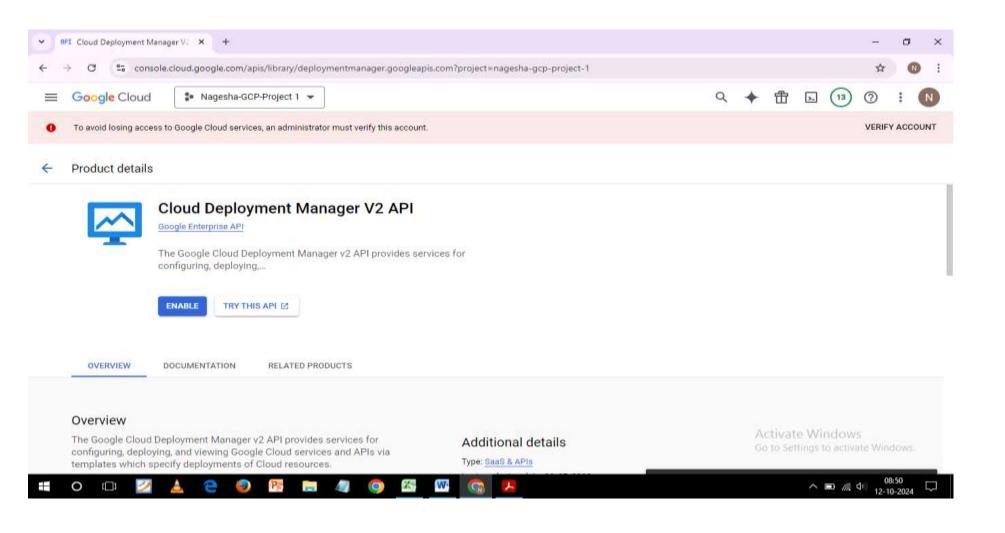


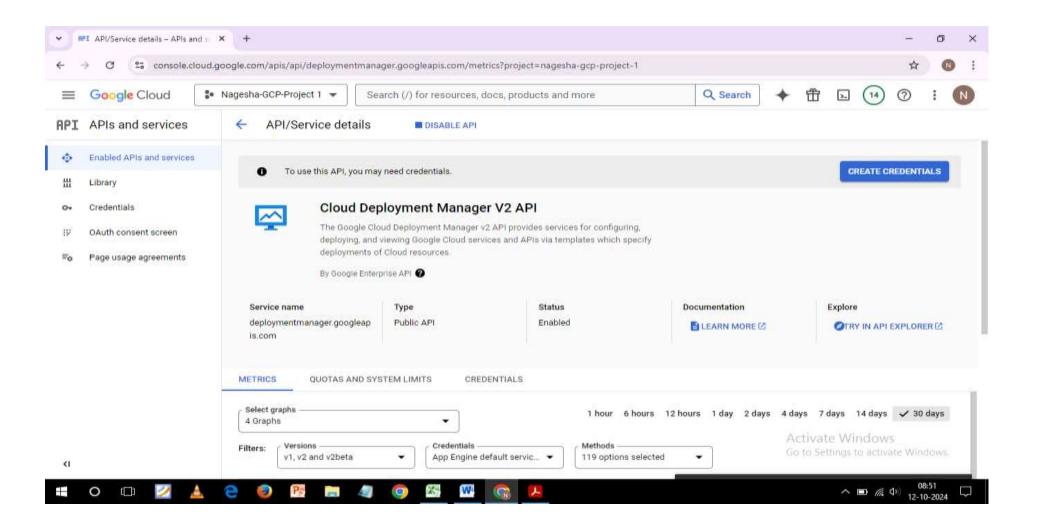


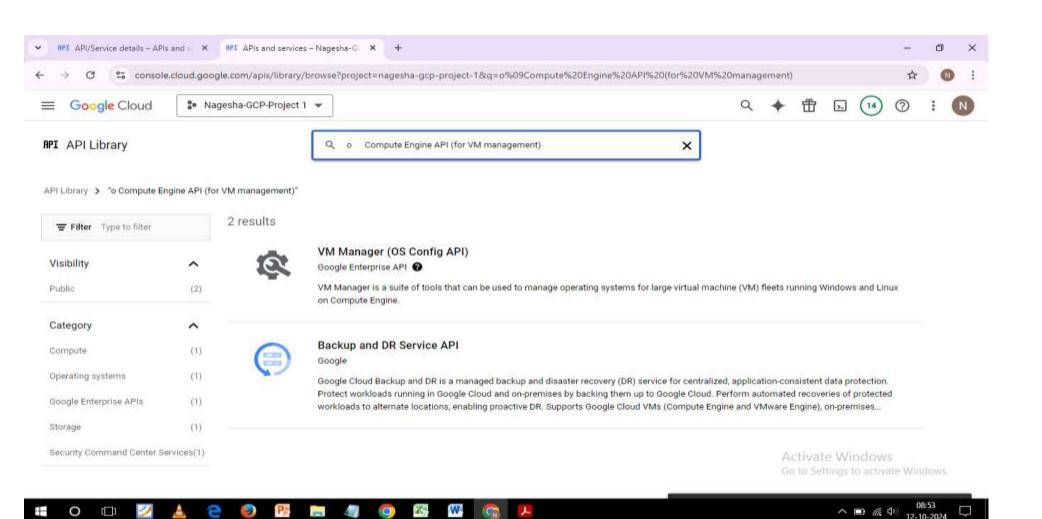


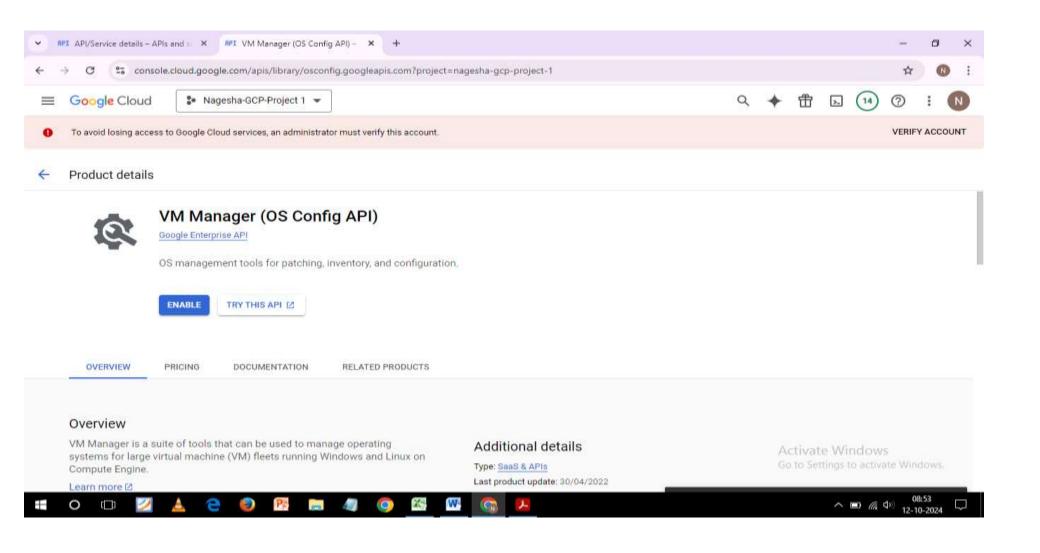


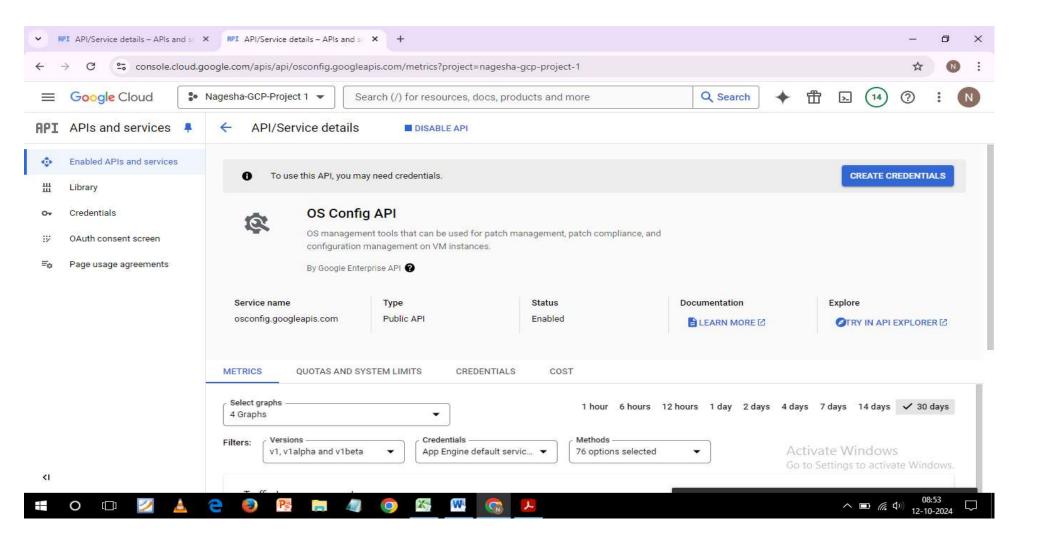


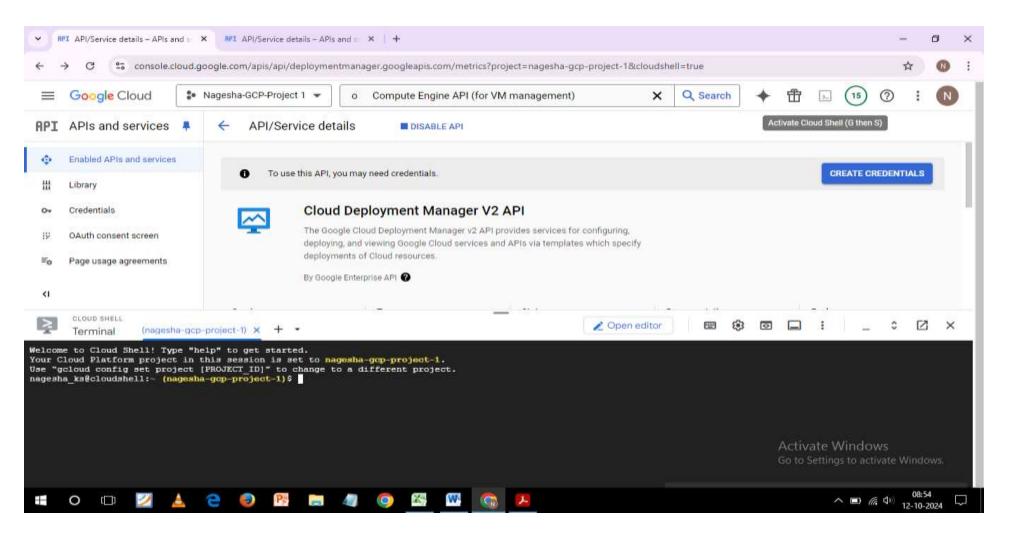


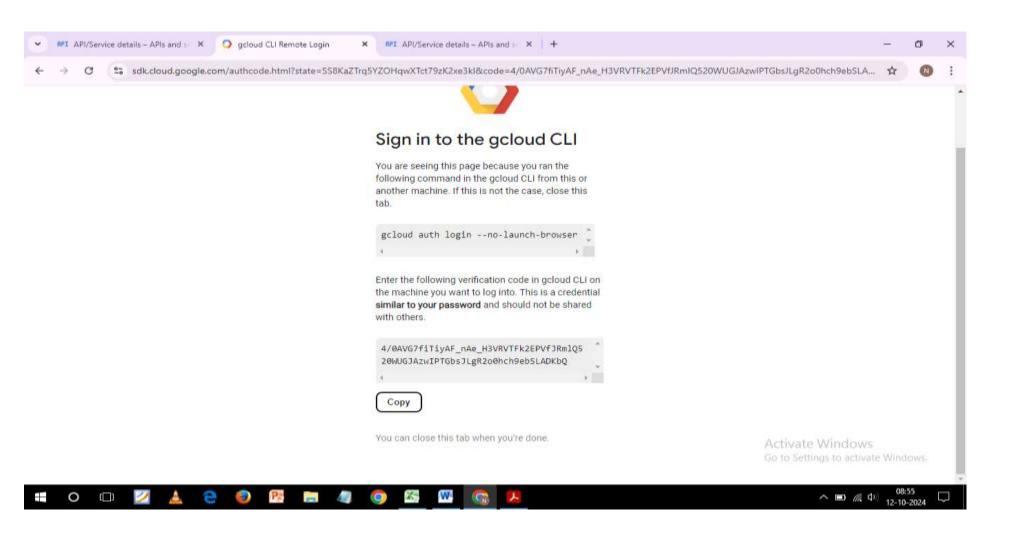


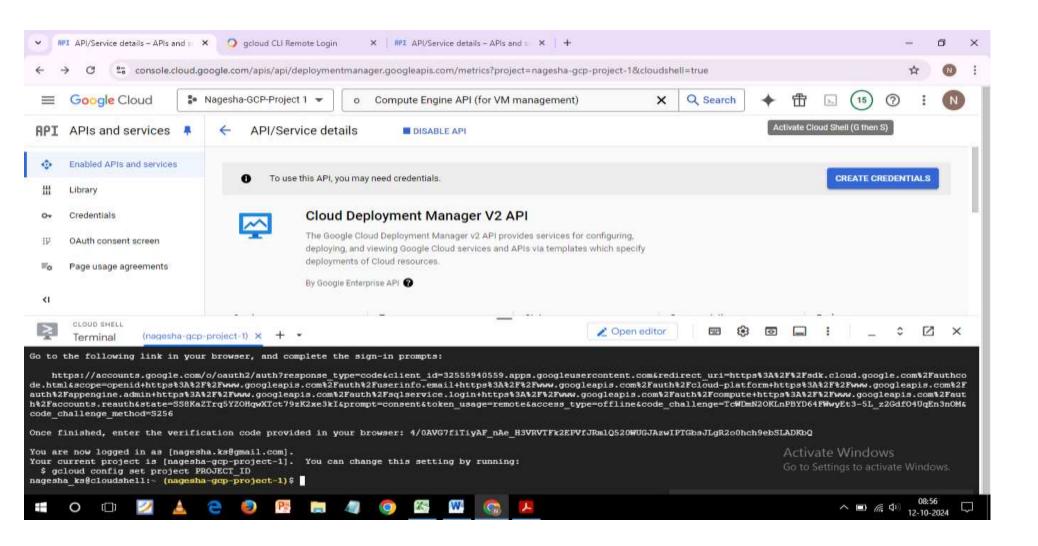


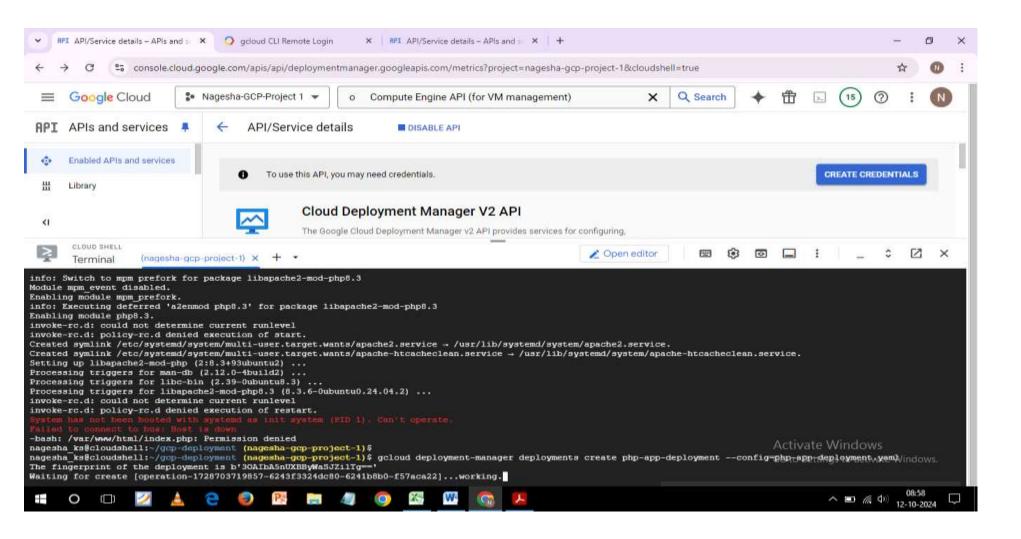


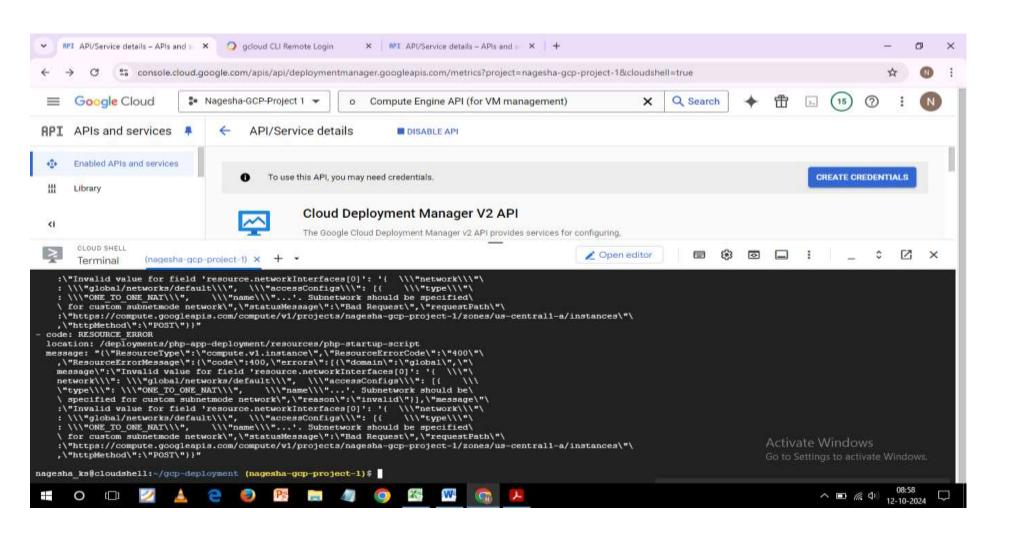


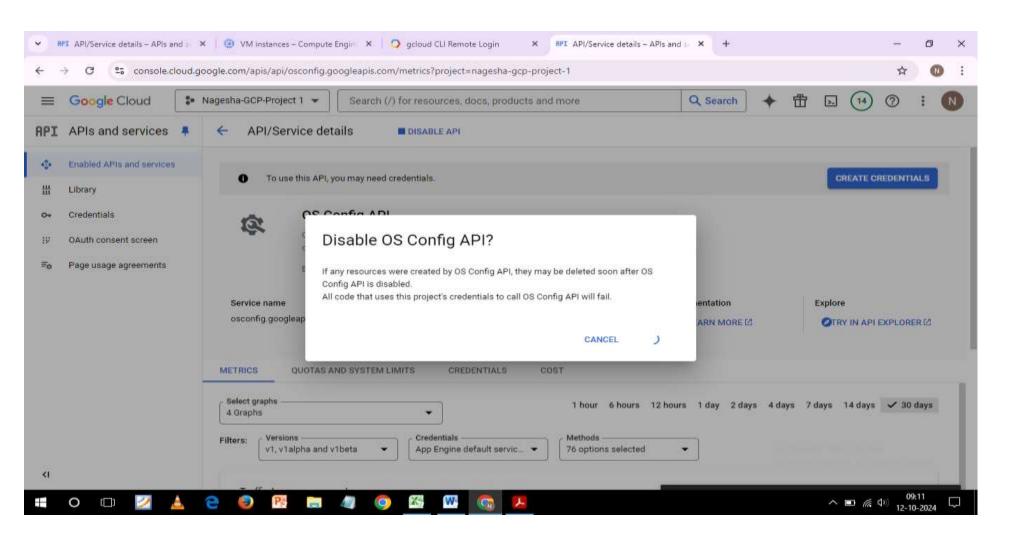


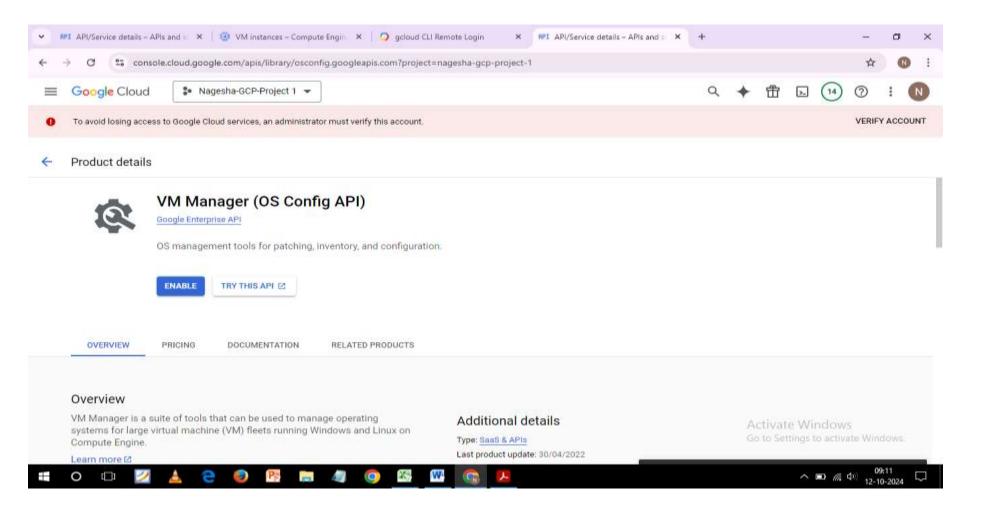


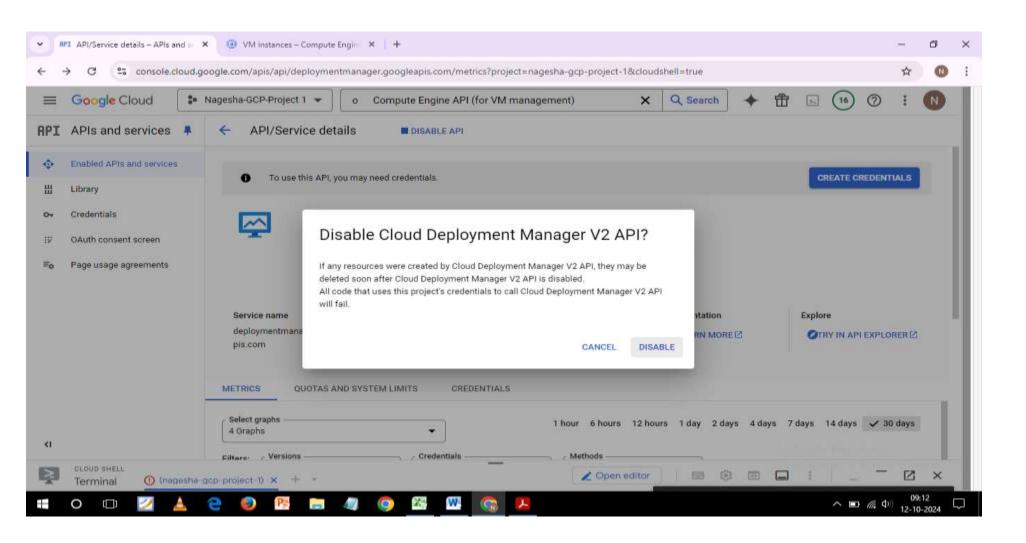


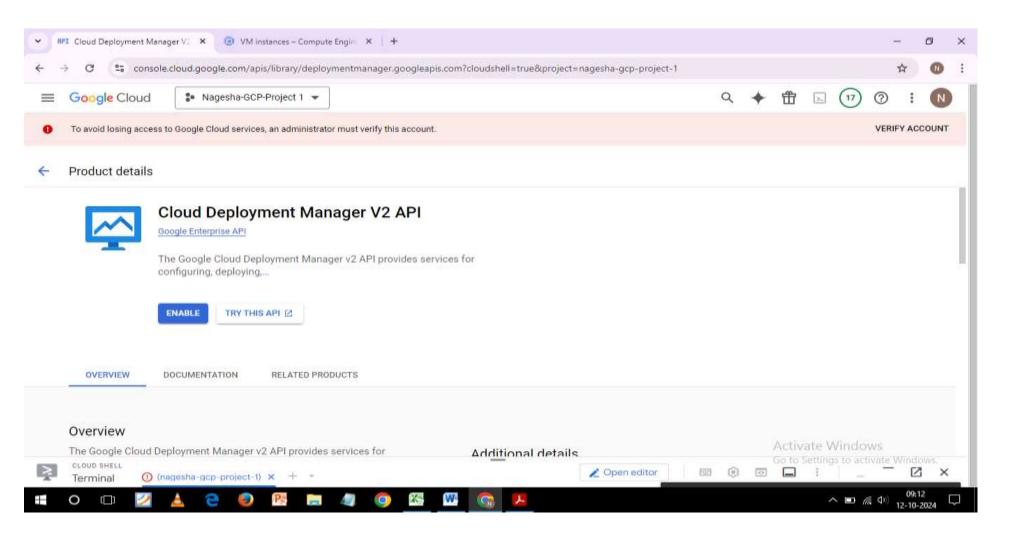


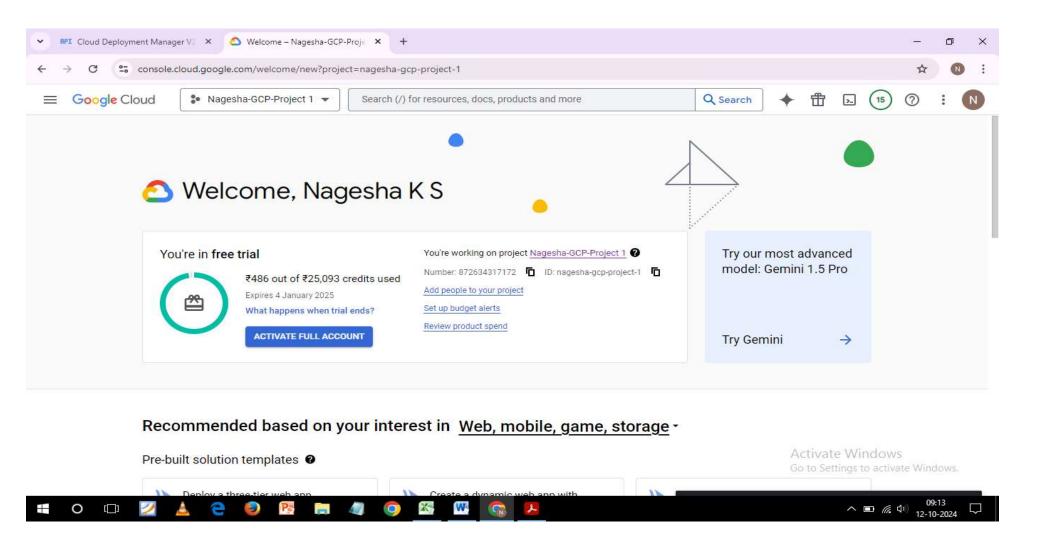












#### **Commands**

#### **Set Up Cloud Deployment Manager by enabling APIs**

Go to GCP Console > APIs & Services > Library > Search for and enable the following APIs:

**Google Cloud Deployment Manager API.** 

Compute Engine API (for VM management).

Installed gcloud CLI and Authenticate by running

gcloud auth login

#### **Deployment Using YAML Files**

Created a New Directory for Deployment Manager Files mkdir ~/gcp-deployment cd ~/gcp-deployment

To deploy an Ubuntu VM and a PHP App, created a Deployment Configuration YAML File by referring

https://cloud.google.com/appengine/docs/flexible/reference/app-yaml?tab=python

# resources: #NAME?

type: compute.v1.instance

properties:

zone: us-central1-a

machineType: zones/us-central1-a/machineTypes/f1-micro

disks:

deviceName: boot type: PERSISTENT

boot: true

autoDelete: true initializeParams:

sourceImage: projects/ubuntu-os-cloud/global/images/family/ubuntu-2004-lts

networkInterfaces:

- network: global/networks/default

```
accessConfigs:
   - name: External NAT
    type: ONE TO ONE NAT
- name: php-startup-script
 type: compute.v1.instance
 properties:
  zone: us-central1-a
  machineType: zones/us-central1-a/machineTypes/f1-micro
  disks:
  - deviceName: boot
   type: PERSISTENT
   boot: true
   autoDelete: true
   initializeParams:
    sourceImage: projects/ubuntu-os-cloud/global/images/family/ubuntu-2004-lts
  networkInterfaces:
  - network: global/networks/default
   accessConfigs:
   - name: External NAT
    type: ONE TO ONE NAT
  metadata:
   items:
   - key: startup-script
    value: |
     #!/bin/bash
     sudo apt update
     sudo apt install apache2 php libapache2-mod-php -y
     sudo systemctl restart apache2
     echo "<?php phpinfo(); ?>" > /var/www/html/index.php
```

## **Deployed the YAML Configuration Using Cloud Deployment Manager**

gcloud deployment-manager deployments create php-app-deployment --config=php-app-deployment.yaml

## **Cleaned Up Resources by deleting the deployment**

gcloud deployment-manager deployments delete php-app-deployment