**1️ Enable Deployment Manager API**

Before using Deployment Manager, ensure the API is enabled in your GCP project.

gcloud services enable deploymentmanager.googleapis.com

**2️ Create a Deployment Configuration File (vm-config.yaml)**

This YAML file defines the infrastructure (e.g., a VM and a VPC).

**Example: Creating a VM in a VPC**

resources:

- name: my-vpc

type: compute.v1.network

properties:

autoCreateSubnetworks: false

- name: my-subnet

type: compute.v1.subnetwork

properties:

network: $(ref.my-vpc.selfLink)

ipCidrRange: 10.10.0.0/24

region: us-central1

- name: my-vm

type: compute.v1.instance

properties:

zone: us-central1-a

machineType: zones/us-central1-a/machineTypes/n1-standard-1

disks:

- boot: true

autoDelete: true

initializeParams:

sourceImage: projects/debian-cloud/global/images/family/debian-11

networkInterfaces:

- network: $(ref.my-vpc.selfLink)

subnetwork: $(ref.my-subnet.selfLink)

**3️ Deploy the Configuration**

Run the following command to apply the configuration and create the resources:

gcloud deployment-manager deployments create my-deployment --config vm-config.yaml

**4️ Verify the Deployment**

To check the created resources:

gcloud deployment-manager deployments describe my-deployment

To list all deployments:

gcloud deployment-manager deployments list

**5️ Update the Deployment**

If you modify vm-config.yaml, update the deployment with:

gcloud deployment-manager deployments update my-deployment --config vm-config.yaml

**6️ Delete the Deployment**

To clean up resources:

gcloud deployment-manager deployments delete my-deployment