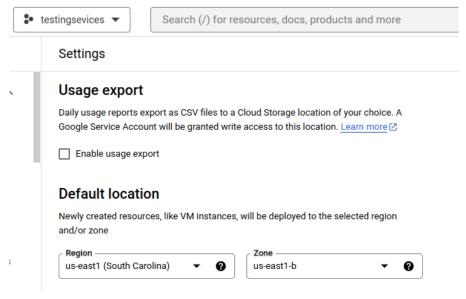
My Steps:

- 1. Github creating repo.
- 2. Creating separated modules
- 3. terraform code development
 - a. Add Credentials (key and gcloud auth)
 - i. gcloud config set project PROJECT_ID
 - ii. gcloud auth application-default login
 - b. Enabling the necessary APIs: Google Compute Engine API, Kubernetes Engine API, ArtifactRegistry API and Cloud Resource Manager API.
 - c. Adding new SA " master" with a key added to the provider gcloud iam service-accounts create master --description="Terraform Service account For Developers Final Project" --display-name="Terraform Service Account"
 - d. Setting project's default location



- e. You will also need to enable some APIs in order to use terraform:
- f. gcloud services enable cloudresourcemanager.googleapis.com

- g. gcloud services enable container.googleapis.com
- h. gcloud services enable artifactregistry.googleapis.com
- i. gcloud services enable compute.googleapis.com
- j. Creating VM
 - i. To ssh:
 - gcloud auth activate-service-account
 --key-file=master-terraform-project-iti.json
 - gcloud compute ssh management-vm --zone=us-east1-b
 --project=terraform-project-iti --tunnel-through-iap
 - Installing prerequisites in the VM like docker, kubectl. And authenticating Artifact Registry. (Could be found in Compute/scripts.sh)
 - o gcloud auth configure-docker us-east1-docker.pkg.dev

Workload Subnet

- 1. Creating the network using terraform.
- 2. Writing the yaml files for nodeJS and mongoDB