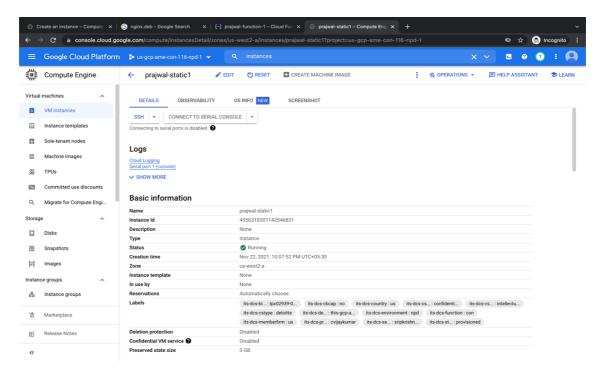
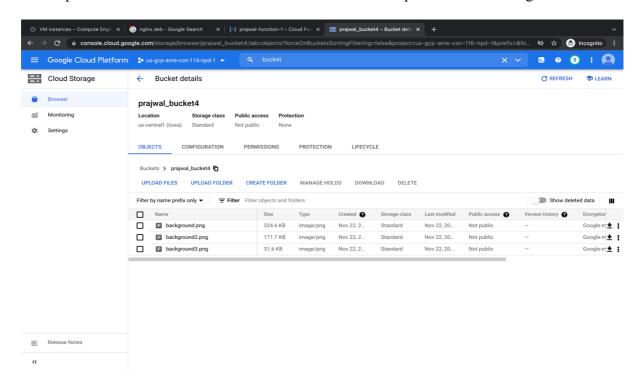
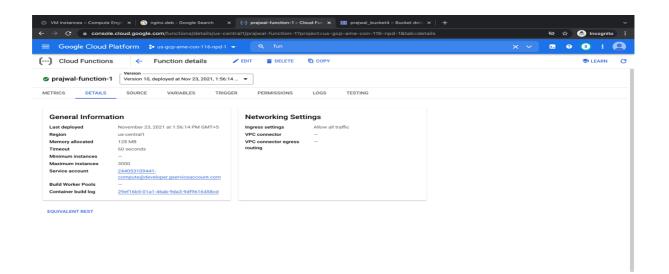
GCP ASSIGNMENT

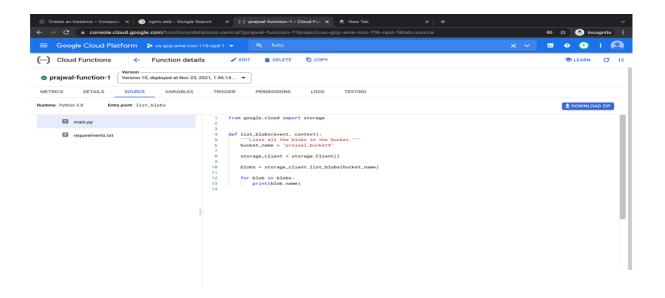
- 1. Host a Static website on custom machine with 1vCPU, 614MB Memory in us-central region.
 - Step1: Create the google compute instance by giving name and labels and select the region as us-central1.
 - Step2: For machine configuration use the n1 as the series and select the 1vCPU,614MB as the machine type.
 - Step3: In the networking field choose the vpc as usgcpconnpd1 as a network and choose hu-subnet as Subnetwork.
 - Step4: After successful creation of instance ssh into the vm and do the installation of nginx with following commands: sudo apt install nginx >> sudo systemctl nginx start >> clone the git repo of the static website into the index.html location.
 - Step5: After running the nginx run command we can see the static website at localhost port number 80 on our browser.
 - Step6: Alternate way as there was no internet connection after ssh connecting to the instance we should download the deb files and then upload it to the GCS bucket and then copying it to the virtual machine by using the command gsutil rsync gs: //bucket name and then installing it on the compute instance.

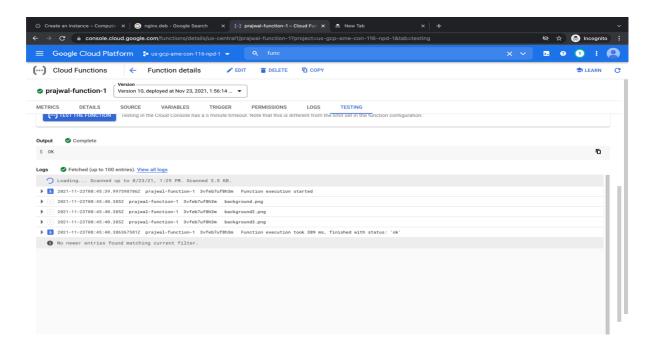


- 2. Create a GCS bucket and store 3 files into it. Use google functions to create a function that lists all the files in the bucket.
 - Step1: Create the cloud storage bucket and provide an unique name and also add labels for better usage of resources.
 - Step2: Choose whether you store data in one region or multiple region and select the storage class for your data as standard.
 - Step3: Add files to the bucket using the upload option on the top.
 - Step4: Create a function using the cloud functions and add the bucket to the function and use the service type given in the Assignment docs.
 - Step5: Write a code snippet that would list all the blobs in the bucket using python, node js etc. In the requirement file add the package google-cloud-storage>=1.43.0.
 - Step6: Test the function which would result all the files present in the storage.

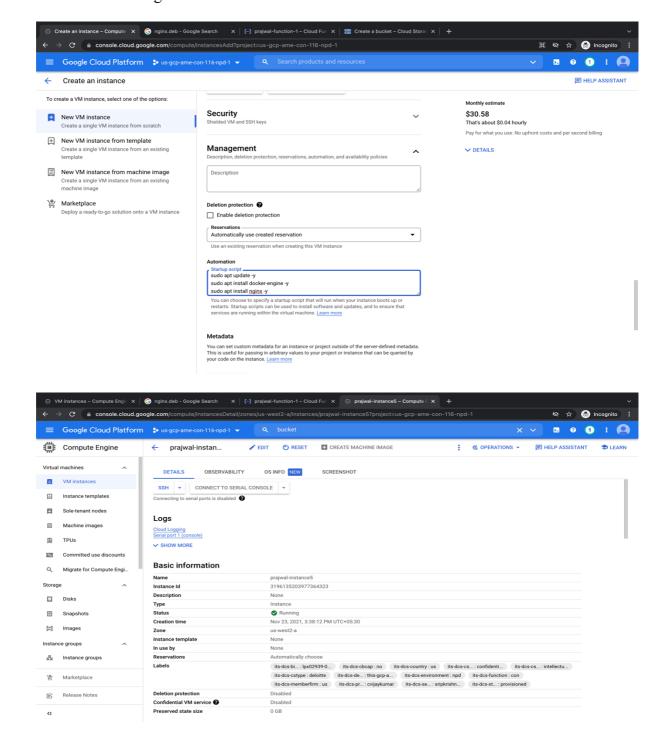








- 3. Create a compute instance with Nginx, docker preinstalled.
 - Step1: Create the google compute instance by giving name and labels and select the region as us-central1.
 - Step2: For machine configuration use the n1 as the series and select the 1vCPU,614MB as the machine type.
 - Step3: In the networking field choose the vpc as usgcpconnpd1 as a network and choose hu-subnet as Subnetwork.
 - Step4: using the start up script add commands to run the instance with pre installed Nginx and docker.



- 4. Create a snapshot of the above compute engine and create a GCE from it.
 - Step1: After the creation of the above compute instance go to the snapshot field.
 - Step2: Create a new compute instance from the previously created snapshot make sure to change the boot disk while configuring the instance.'

