DevOps Lab

CLOUD COMPUTE - GCP

Compute: Virtual Machine creation

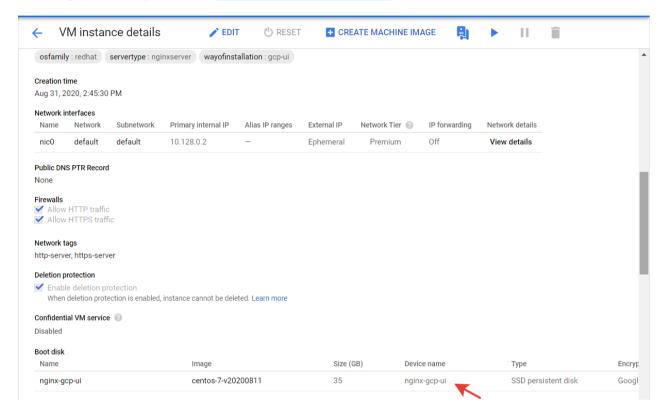
Home task

TASK 1

It's aiming to gain knowledge about the mechanisms of VMs creation in Google Cloud.

Create Virtual Machine in Google cloud by the following ways:

- gcp-ui (complete Lab: google codelabs: VM creation)



- gcloud

```
[root@centOS -] & ground compute instances create nginx-ground --zone us-centrall-c --custom-enemory=4608MiB --boot-disk-size=1568 --boot-disk-type=pd-ssd --image=centos-7-v2
0200811 --image-project-centos-cloud --labels-servertype=nginxsevery.osfamily=redhat, wayofinstallation=gcloud --deletion-protection --metadata-from-file startup-script=startup_createvm.sh
--tags=http-server, https-server
Created [https://www.googleapis.com/compute/v1/projects/devops-lab-2020/zones/us-centrall-c/instances/nginx-gcloud].
MARNING: Some requests generated warnings:

- Disk size: '35 GB' is larger than image size: '20 GB'. You might need to resize the root repartition manually if the operating system does not support automatic resizing. See https://cloud.google.com/compute/docs/disks/add-persistent-diskfresize_pd for details.

NAME ZONE MACHINE TYPE FREEMPTIBLE INTERNAL IP EXTERNAL IP STATUS
nginx-gcloud us-centrall-c custom-1-4608 10.128.0.4 34.123.63.53 RUNNING
[root@centOS -]#
```

 terraform (all settings should be provided via variables (tfvars), add URL ("http://IP. Address/" to output)

TASK 2

It's aiming to gain knowledge about the mechanisms of Persistent disk creation in Google Cloud.

Create Persistent Disk and attach it to one of existing Virtual machine (nginx-gcp-ui).

1) Complete Lab goolge codelabs: persistent disk with using your VM name

- 2) Create terraform configuration to do the same via terraform (use VM: nginx-gcp-terraform). For reference:
 - google_compute_disk
 - google_compute_attached_disk