CLOUD FUNCTIONS:

1. gloud functions logs read <function name>
2. two types of cloud funtions: HTTP and background cloud functions.
3. We can deploy cloud functions from local machine, github or from bitbucket.
4. Best practice to avoid cold start (unnecessary adding of dependencies) while writing a cloud function.
5. A project can have upto 5 VPCs.
6. Life cycle of instance: provisioning, staging,running,stopping,repairing,terminated.
7. When VM is stopped , still cost is active for static IP address and persistent disks.
8. Images: public – managed by google . Custom – only to ur project mix ur own image and available images.
9. Image familes: group of similar images that are created even if there is small change in the image property. Here latest one is always visible and with family easy to roll back
10. If you want to create incremental backups of your persistent disk data, use [snapshots](https://cloud.google.com/compute/docs/disks/create-snapshots) instead.
11. If you want to migrate many VMs to compute engine then we can use compute engine migration service.

VPC:

1. VPCs are global networks
2. Subnets are regional in nature
3. Subnets provide private internal address to communicate with each other
4. 0.0.0.0/0 specifies all allows traffic from all source IP addresses.

VPN:

1. There are two type HA VPN and classic VPN
2. HA VPN; does enable only dynamic routing
3. Classic VPN: does enable both dynamic and static routing but no HA.

IAM:

* To list the roles assigned to users in a project:

gcloud projects get-iam-policy guddi524.

* To lsit the permission associated with a role:

gcloud iam roles describe roles/appenfine.appAdmin

* To assign a predefined role:

gcloud projects add-iam-policy-binding guddi524 –member user:poojaarballi9@gmail.com/

--role roles/appengine.deployer

* To add custom roles:

gcloud iam roles create custrole1 –project guddi524 –title custrole1 –description \

‘adding custom roles’ --permission appengine.version.get –stage alpha

* Settting scopes to instances:

gcloud compute instances set-service-account inst1 –service-account [examadmin@ace-project.iam.gsserviceaccount.com](mailto:examadmin@ace-project.iam.gsserviceaccount.com) –scopes compute-rw storage-ro

* Creating a VM and choosing the newly created service-account

gcloud compute instance create int1 –servce-account new service account name