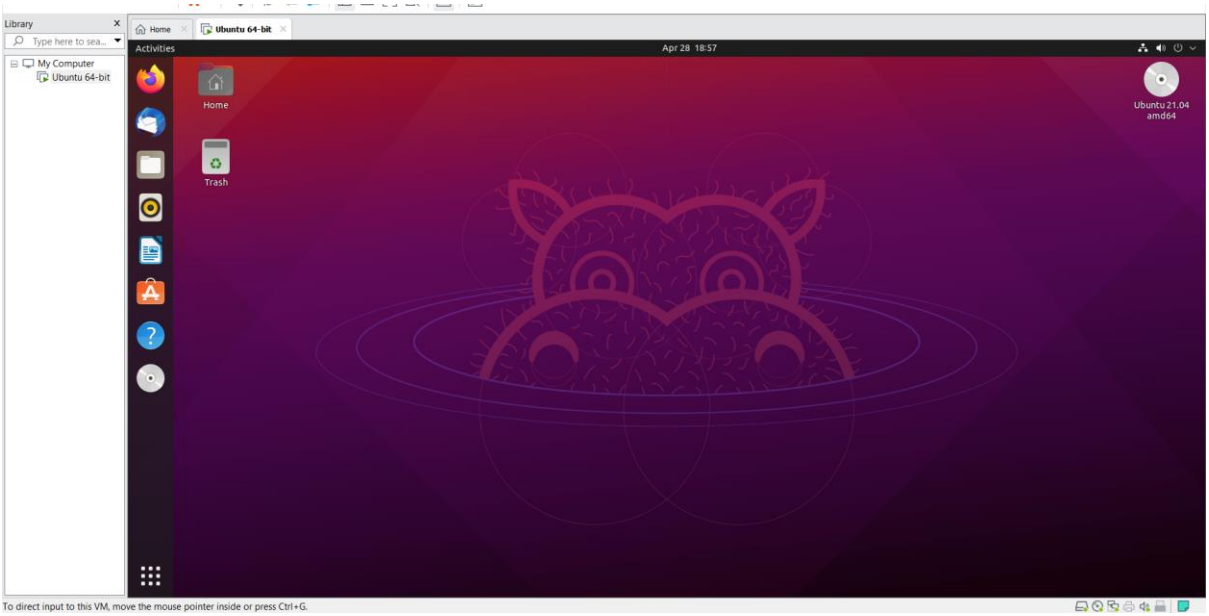
Yogeshwaran s

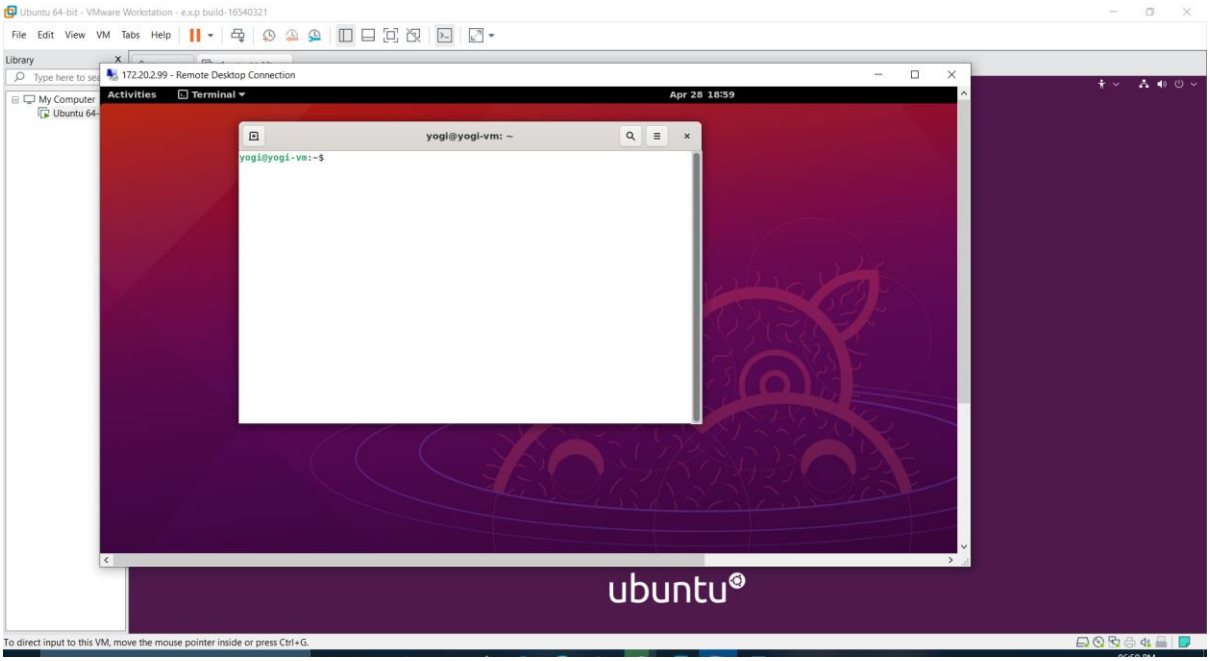
Case study 11

Module 11: Design Migration to GCP

Step 1

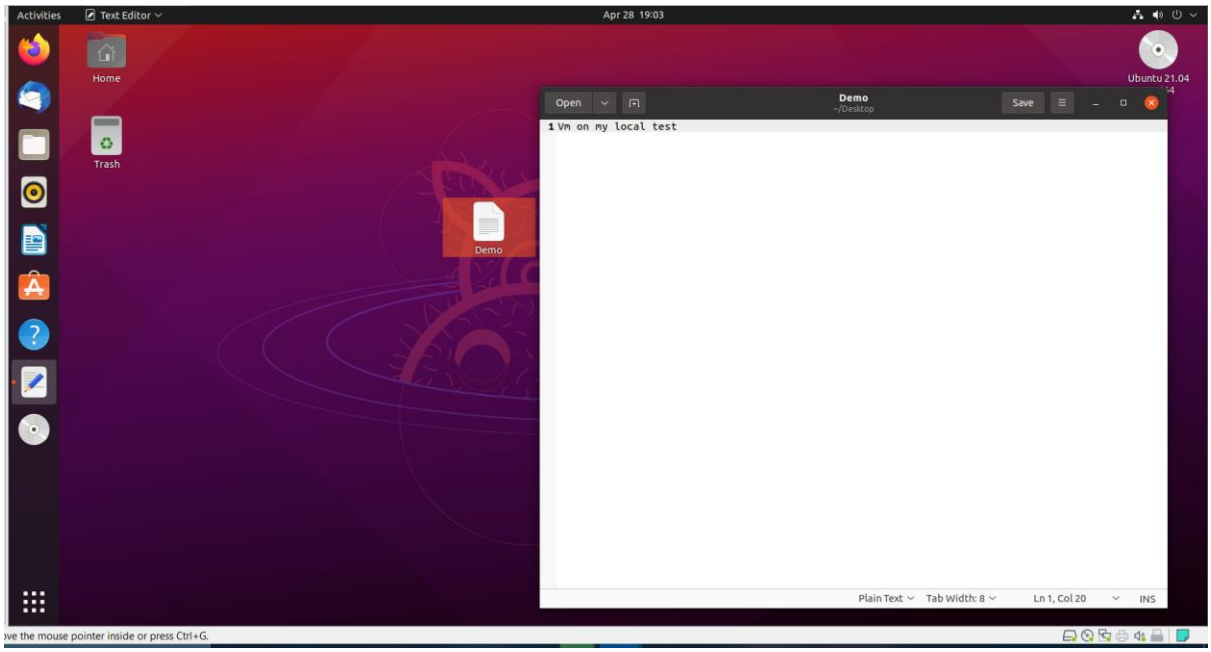
I create a Ubuntu VM on my local machine with the help of VMware, and I install and enable xrdp on my ubuntu VM so that I can use my VM at RDP





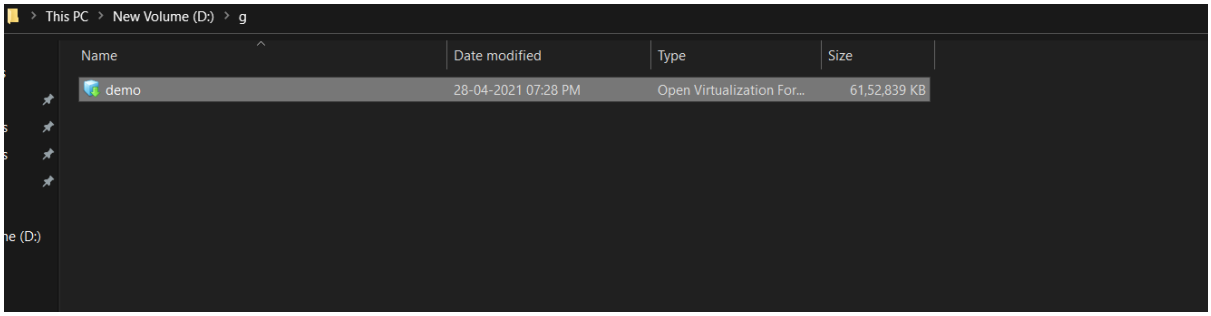
Step 2

I create a demo file on my ubuntu and save it on the desktop to check the migration works or not



Step 3

Then I export my VM into the .ova file for migration by the name of demo.ova



Step 4

Launch gcloud on my local machine using gcloud SDK

```
PS C:\Users\Yogi> gcloud projects list
PROJECT_ID                  NAME                PROJECT_NUMBER
python-application-309315   python-application   442079269779
PS C:\Users\Yogi>
```

Step 5

Create a bucket on gcloud named vm-mirg

```
C:\Users\Yogi\AppData\Local\Google\Cloud SDK>gsutil mb gs://vm-mirg
Creating gs://vm-mirg/...

C:\Users\Yogi\AppData\Local\Google\Cloud SDK>
```

Step 6

Copy the demo.ova file to vm-mirg

```
C:\Users\Yogi\AppData\Local\Google\Cloud SDK>gsutil mb gs://vm-mirg
Creating gs://vm-mirg/...

C:\Users\Yogi\AppData\Local\Google\Cloud SDK>gsutil cp "D:\g\demo.ova" gs://vm-mirg
Copying file://D:\g\demo.ova [Content-Type=application/octet-stream]...
==> NOTE: You are uploading one or more large file(s), which would run
significantly faster if you enable parallel composite uploads. This
feature can be enabled by editing the
"parallel_composite_upload_threshold" value in your .boto
configuration file. However, note that if you do this large files will
be uploaded as `composite objects
<https://cloud.google.com/storage/docs/composite-objects>`_,which
means that any user who downloads such objects will need to have a
compiled crcmod installed (see "gsutil help crcmod"). This is because
without a compiled crcmod, computing checksums on composite objects is
so slow that gsutil disables downloads of composite objects.

| [0 files][ 60.6 MiB/  5.9 GiB]
```

Step 7

Then I execute the demo.ova file to compute engine

```
yogibca62@cloudshell:~ (python-application-309315)$ gcloud compute instances import my-instance     --source-uri=gs://vm-mirg/
demo.ova
WARNING: Importing OVF. This may take 40 minutes for smaller OVFs and up to a couple of hours for larger OVFs.
The following IAM permissions are needed for this operation:
[roles/compute.admin
serviceAccount:442079269779@cloudbuild.gserviceaccount.com
roles/iam.serviceAccountTokenCreator
serviceAccount:442079269779@cloudbuild.gserviceaccount.com
roles/iam.serviceAccountUser
serviceAccount:442079269779@cloudbuild.gserviceaccount.com]

Would you like to add the permissions (Y/n)?
```

Step 8

Now it altogether imported to GCP