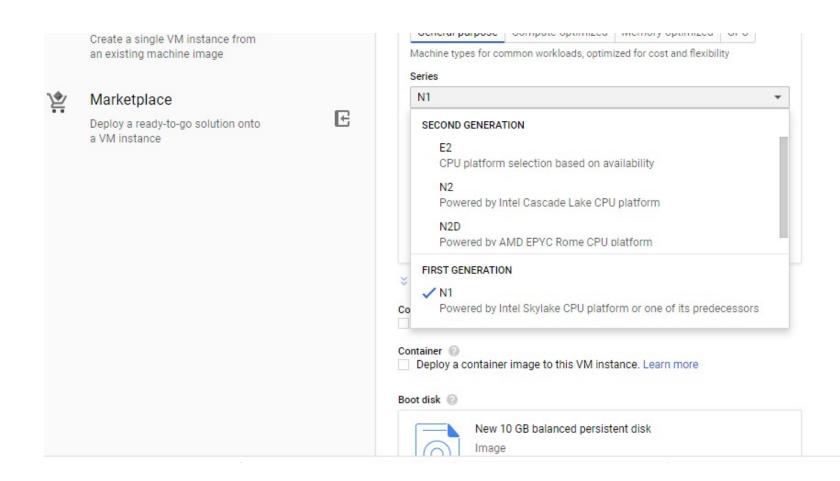
Configuring Google Cloud for Windows

Dr. K. T. Deepak

IIIT Dharwad

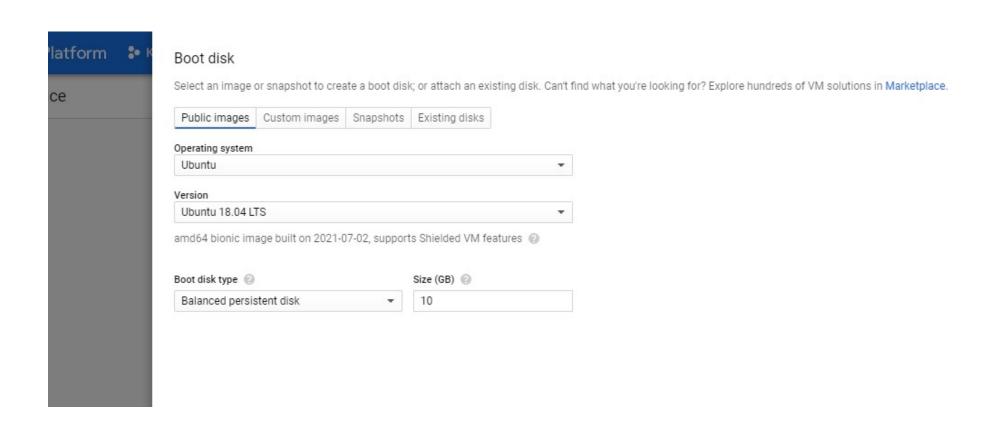
vCPU Selection



4 vCPU and 15GB Memory

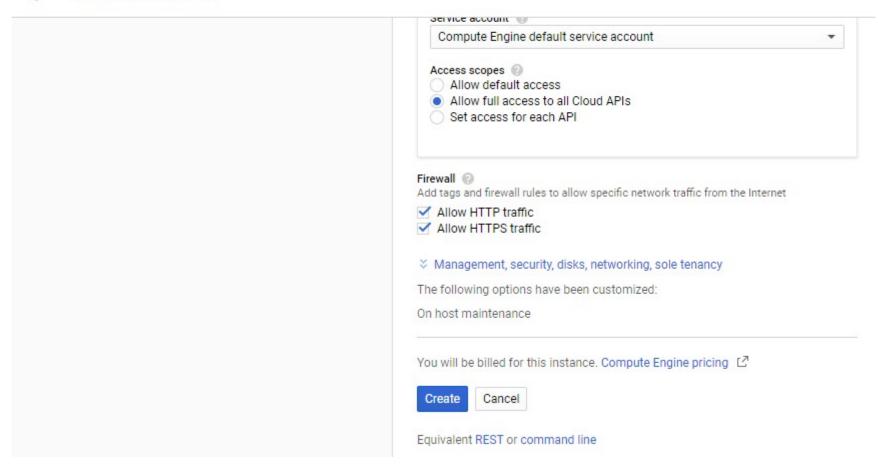


OS Selection

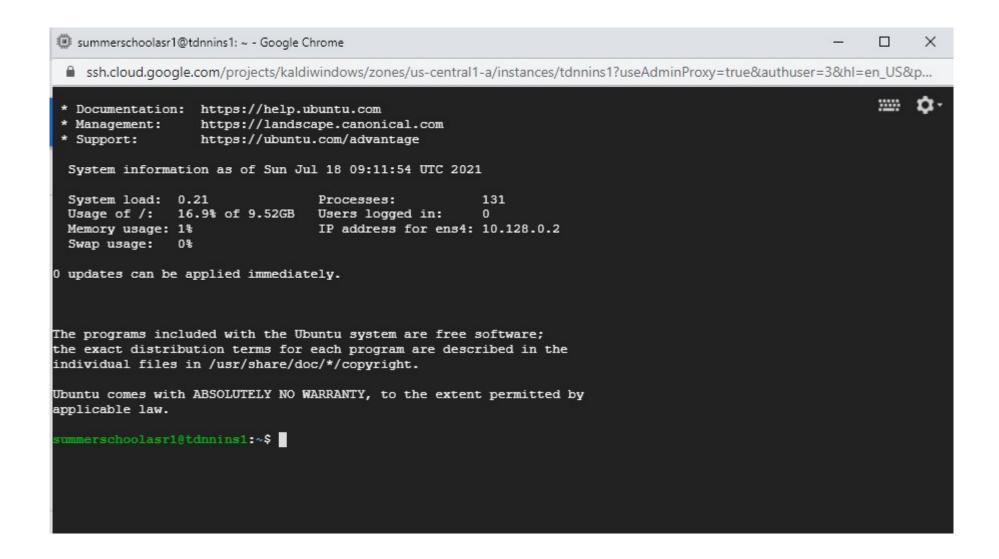


Management

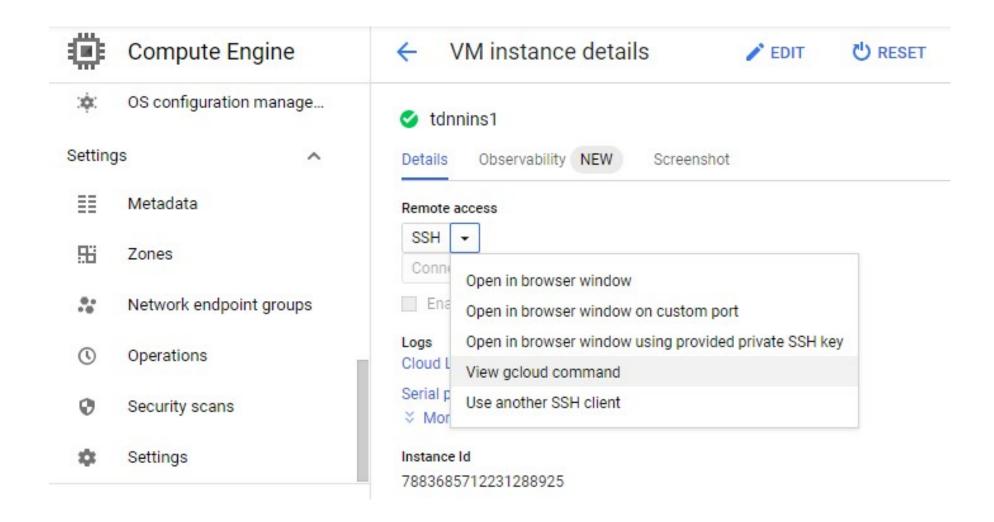
Create an instance



SSH Browser



View Gcloud Command



Copy the Command



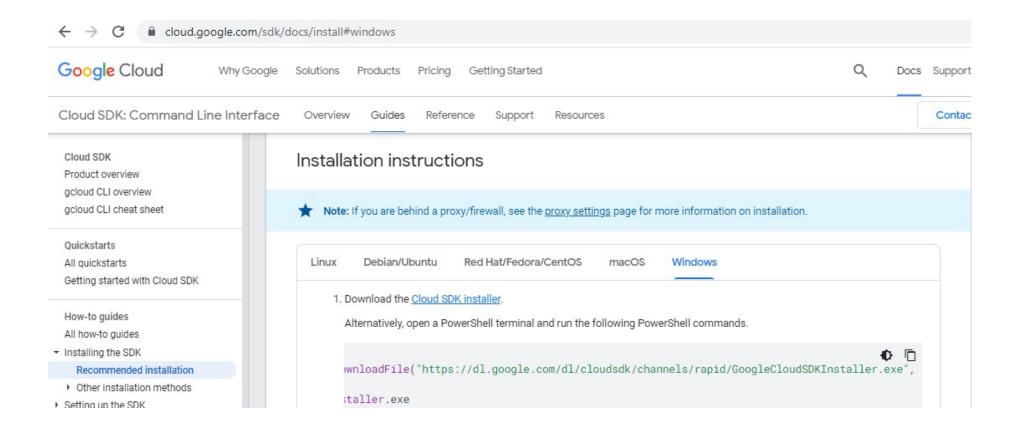
Run the Command in the Cloud Terminal

```
Usage of /: 16.9% of 9.52GB Users logged in:
  Memory usage: 1%
                                 IP address for ens4: 10.128.0.2
  Swap usage: 0%
0 updates can be applied immediately.
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
 summerschoolasr1@tdnnins1:~$ pwd
/home/summerschoolasr1
 ummerschoolasr1@tdnnins1:~$ gcloud beta compute ssh --zone "us-central1-a" "tdnnins1" --project "kaldiwindows"
WARNING: The private SSH key file for gcloud does not exist.
WARNING: The public SSH key file for gcloud does not exist.
WARNING: You do not have an SSH key for gcloud.
WARNING: SSH keygen will be executed to generate a key.
Generating public/private rsa key pair.
Enter passphrase (empty for no passphrase):
```

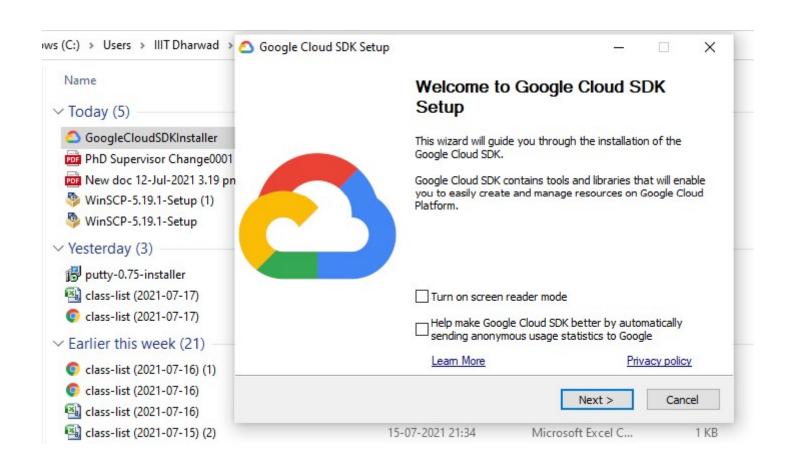
Run the Command in the Cloud Terminal

```
ummerschoolasr1@tdnnins1:~$ pwd
/home/summerschoolasr1
 ummerschoolasr1@tdnnins1:~$ gcloud beta compute ssh --zone "us-central1-a" "tdnnins1" --project "kaldiwindows"
WARNING: The private SSH key file for gcloud does not exist.
WARNING: The public SSH key file for gcloud does not exist.
WARNING: You do not have an SSH key for gcloud.
WARNING: SSH keygen will be executed to generate a key.
Generating public/private rsa key pair.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/summerschoolasr1/.ssh/google compute engine.
Your public key has been saved in /home/summerschoolasr1/.ssh/google compute engine.pub.
The key fingerprint is:
SHA256:hMDAGF97tJcqtW4uCM/4/z31Z3qJ0xpSFKaSI8INJ2U summerschoolasr1@tdnnins1
The key's randomart image is:
---[RSA 2048]----+
1.+.o=.E o
...o.X o o o .
   . + B B . .
     + * 0 .
   . 0 ....0 .
 . + .0 .. .+.*
  ....oo .. oB
  ---[SHA256]----+
Updating project ssh metadata...
```

For Windows



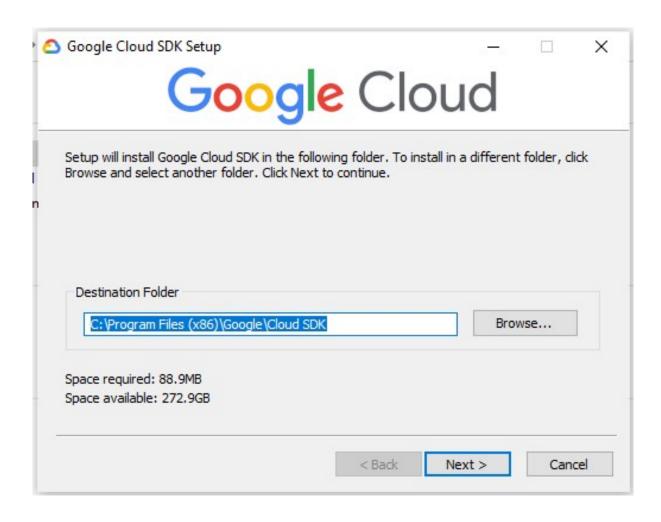
Install Gcloud SDK in your local Machine



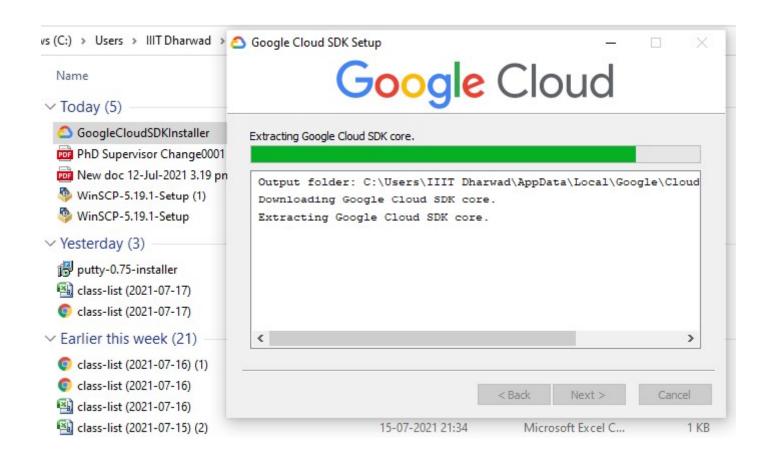
Select Single User



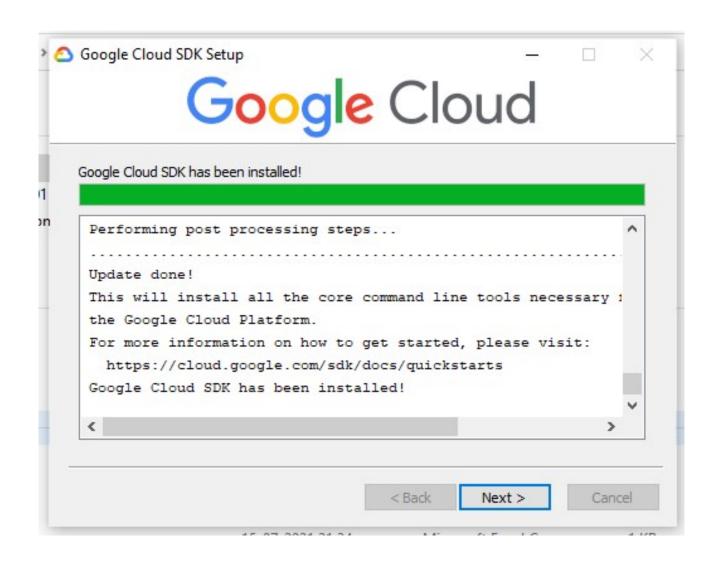
Installation Path



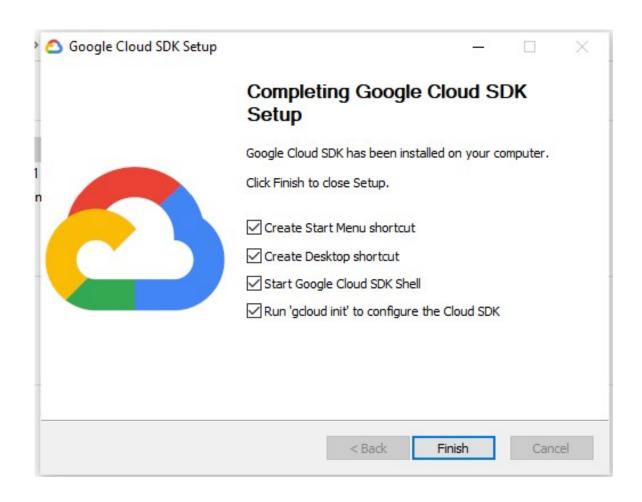
Installation GCloud



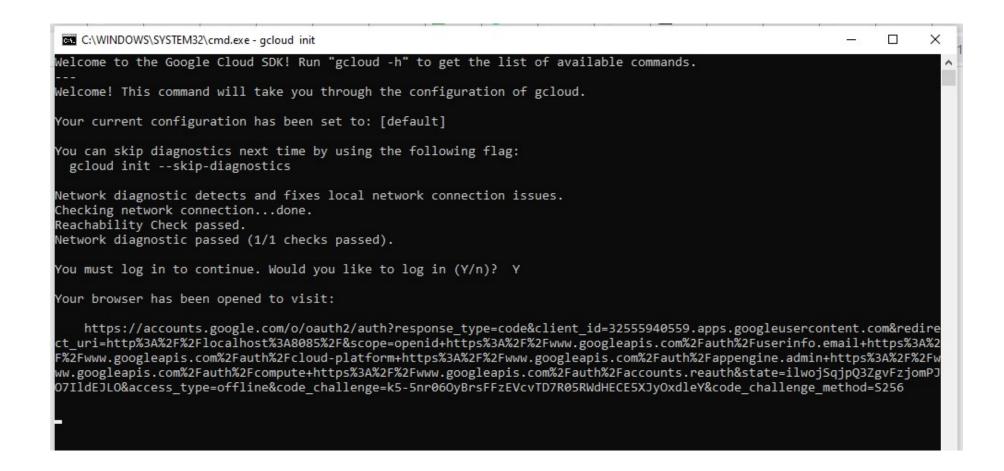
Google Cloud SDK Setup



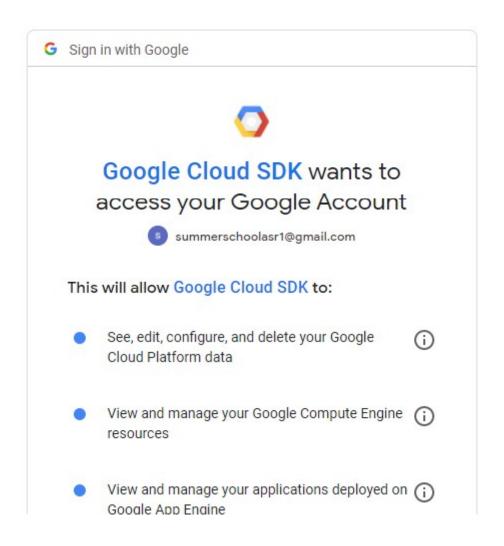
Finish Installation



Opens the Browser



Successfully Installed



Click Allow

- View and manage your Google Compute Engine resources
- View and manage your applications deployed on Google App Engine

Make sure you trust Google Cloud SDK

You may be sharing sensitive info with this site or app. You can always see or remove access in your Google Account.

Learn how Google helps you share data safely.

See Google Cloud SDK's Privacy Policy and Terms of Service.

Cancel

Allow

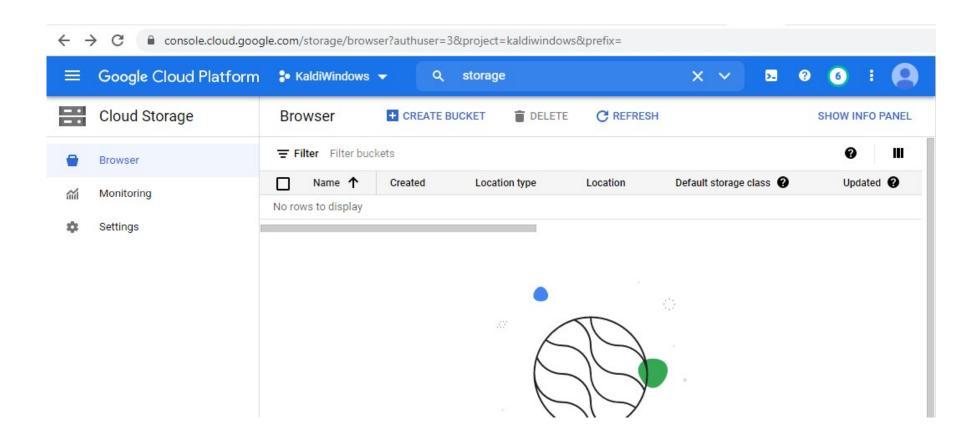
Authenticated with Gcloud SDK

Cloud SDK: Command Line Interface Overview Guides Reference Support Cloud SDK Product overview gcloud CLI overview Home > Docs > Cloud SDK: Command Line Interface > Documentation > Guides Rate and review 🖒 🗇 gcloud CLI cheat sheet You are now authenticated with the Google Send feedback Ouickstarts All quickstarts Cloud SDK! Getting started with Cloud SDK The authentication flow has completed successfully. You may close this window, or check out the resources below. How-to guides All how-to guides Installing the SDK Information about command-line tools and client libraries Setting up the SDK Managing SDK components Scripting guidelines To learn more about gcloud command-line tool commands, see the gcloud command-line tool guide. Enabling accessibility features For further information about the command-line tools for Google App Engine, Compute Engine, Cloud Storage, BigQuery, Using gcloud interactive shell ... Cloud SQL and Cloud DNS (which are all bundled with Cloud SDK), see Accessing Services with the gcloud CLI. Uninstalling the Cloud SDK If you are a client application developer and want to find out more about accessing Google Cloud Platform services with a

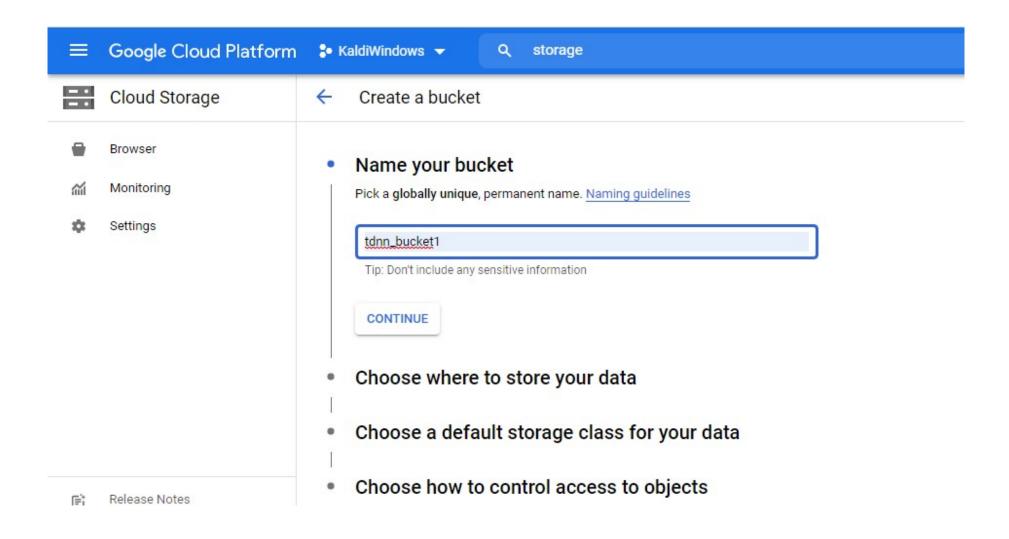
Type no for Region and Zone

```
Your browser has been opened to visit:
   https://accounts.google.com/o/oauth2/auth?response type=code&client id=32555940559.apps.googleusercontent.com&redire
ct uri=http%3A%2F%2Flocalhost%3A8085%2F&scope=openid+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fuserinfo.email+https%3A%2
F%2Fwww.googleapis.com%2Fauth%2Fcloud-platform+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fappengine.admin+https%3A%2F%2Fw
ww.googleapis.com%2Fauth%2Fcompute+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Faccounts.reauth&state=ilwojSqjp03ZgvFzjomPJ
O7IldEJLO&access type=offline&code challenge=k5-5nr06OyBrsFFzEVcvTD7R05RWdHECE5XJyOxdleY&code challenge method=S256
You are logged in as: [summerschoolasr1@gmail.com].
Pick cloud project to use:
 [1] asriitdh
[2] innate-vigil-319914
[3] kaldiwindows
 [4] Create a new project
Please enter numeric choice or text value (must exactly match list
item): 3
Your current project has been set to: [kaldiwindows].
Do you want to configure a default Compute Region and Zone? (Y/n)? n
Error creating a default .boto configuration file. Please run [gsutil config -n] if you would like to create this file.
Your Google Cloud SDK is configured and ready to use!
 Commands that require authentication will use summerschoolasr1@gmail.com by default
 Commands will reference project `kaldiwindows` by default
Run `gcloud help config` to learn how to change individual settings
```

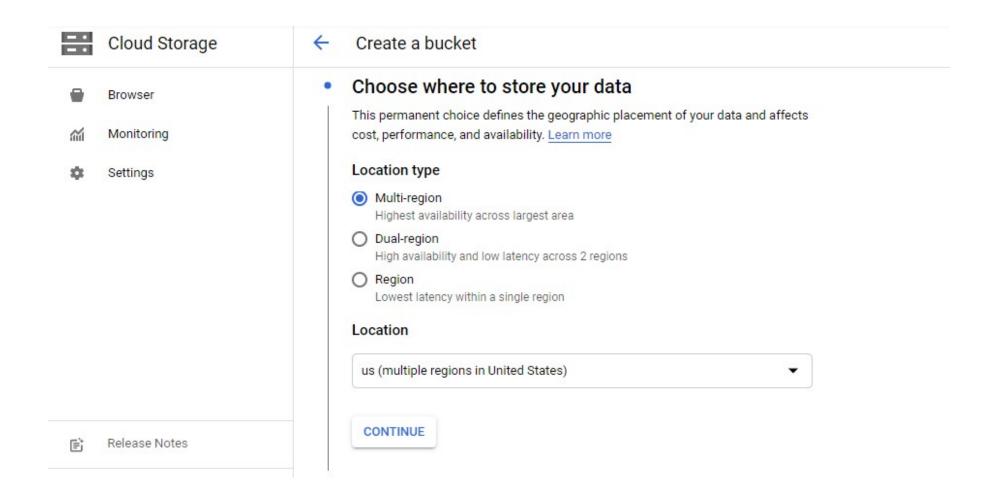
Cloud Storage



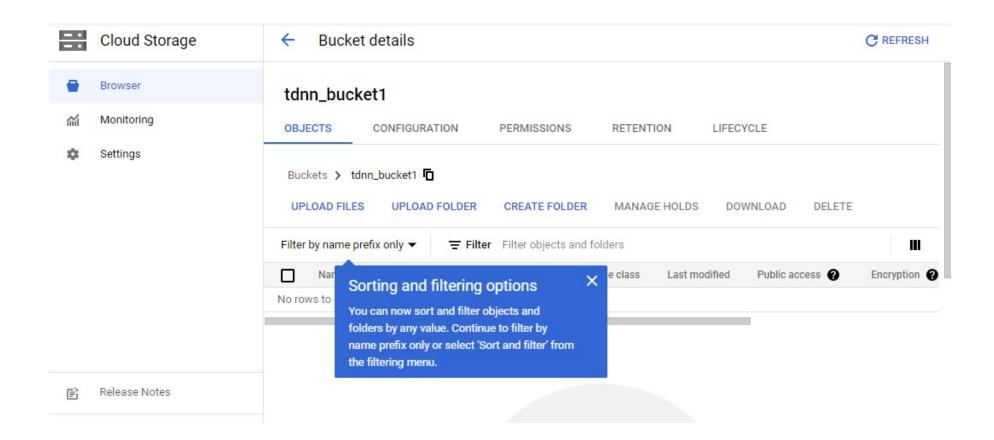
Create Bucket with Name



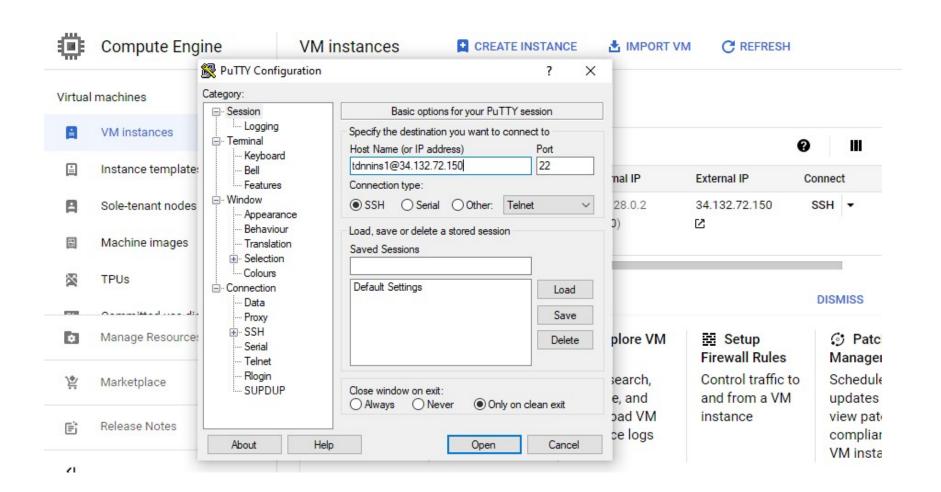
Cloud Storage



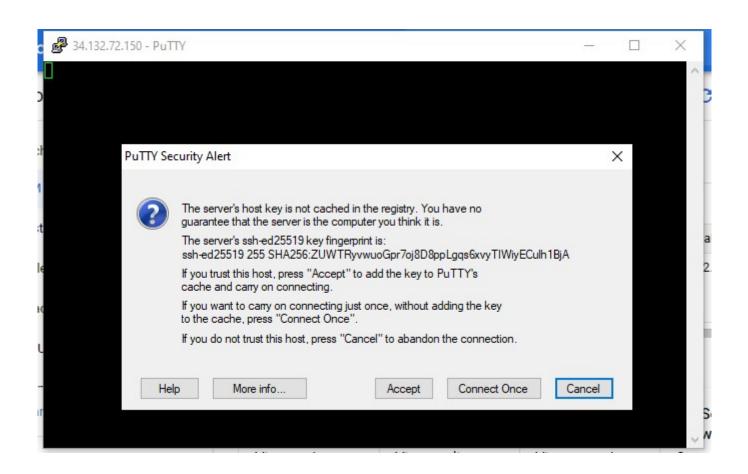
Bucket Created



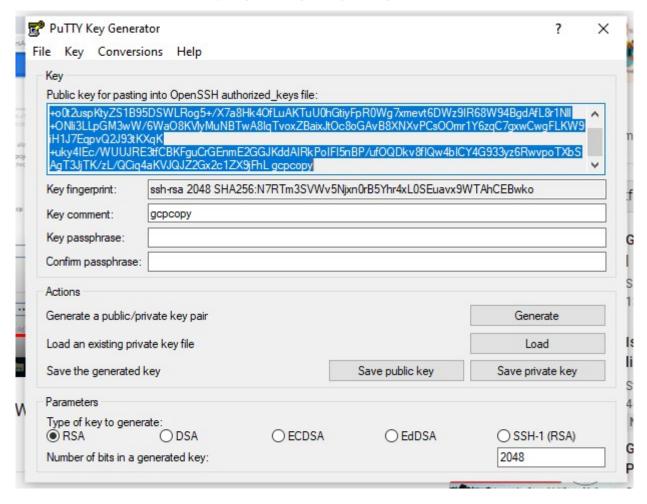
Putty Configuration



Putty Configuration

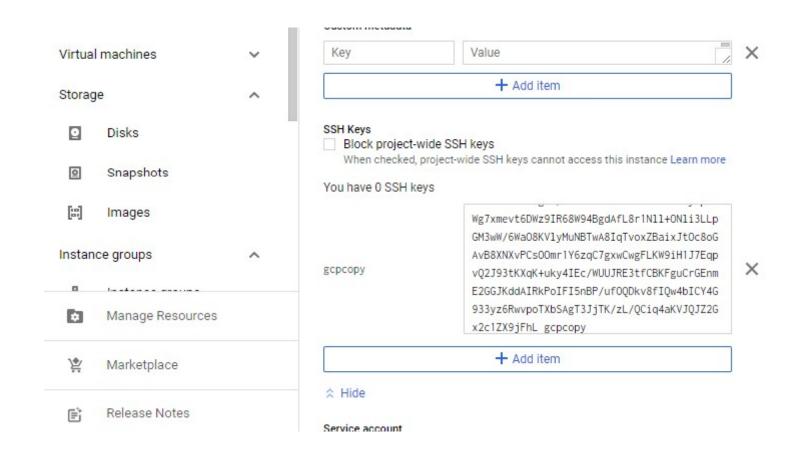


Public Key Generator using Putty Generator

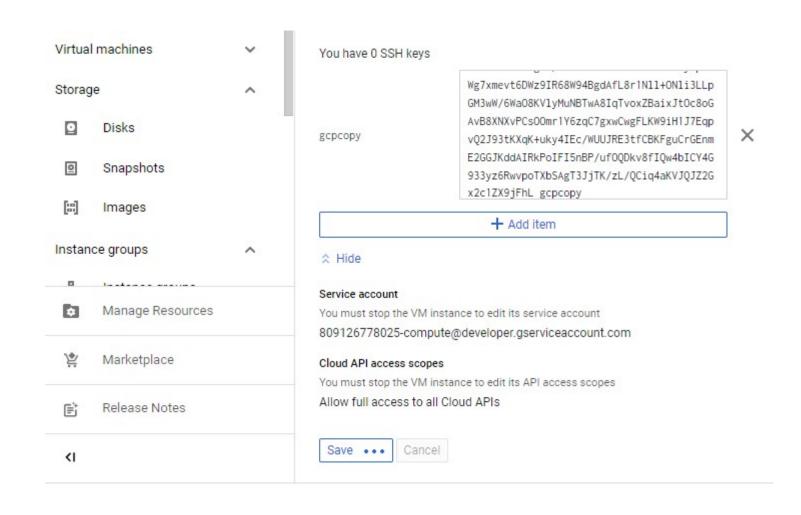


Key Comment will be reflected in Gcloud. Example gcpcopy.

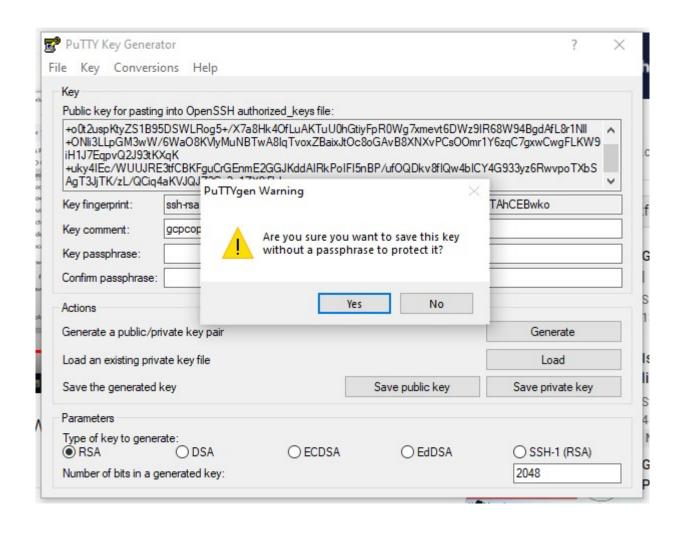
Paste the Public Key Generated in Putty to GCP SSH Keys



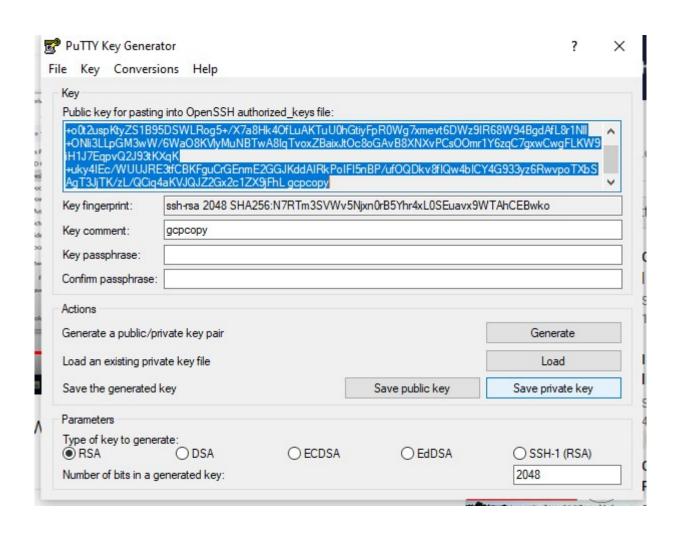
Save the Public Key in GCP VM



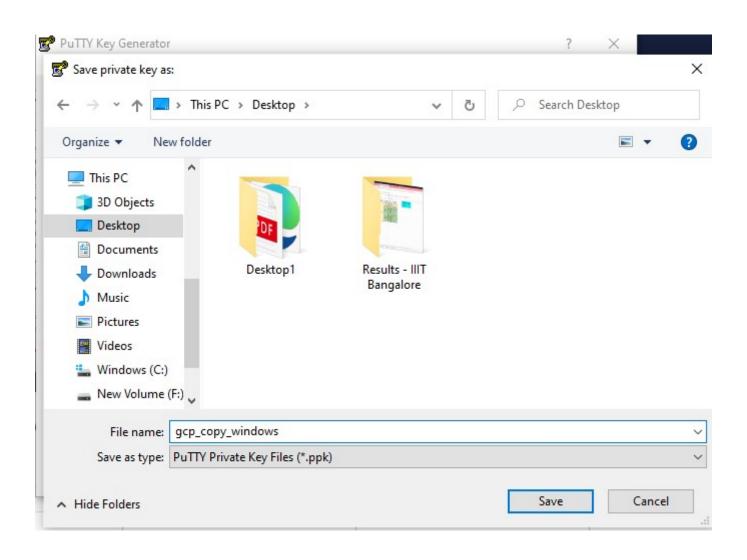
Can Proceed without Passphrase



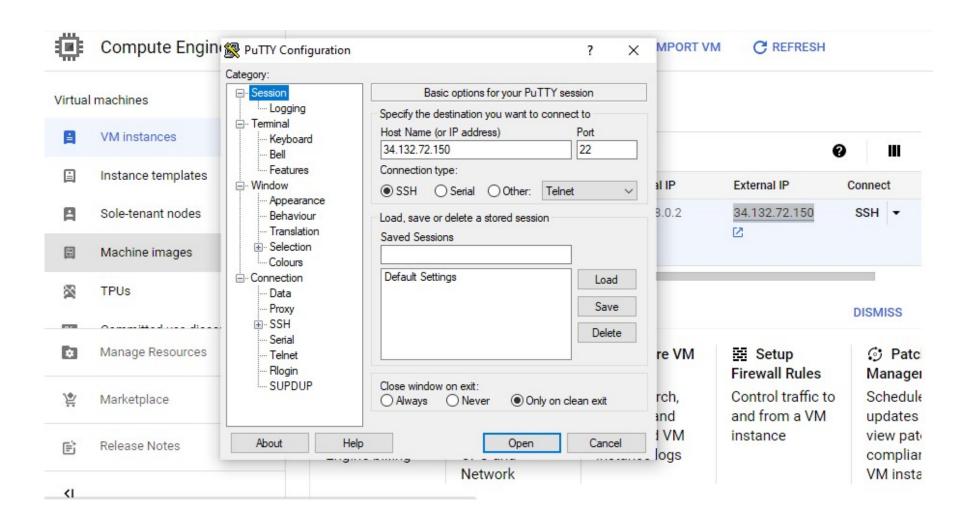
Save Private Key in a File



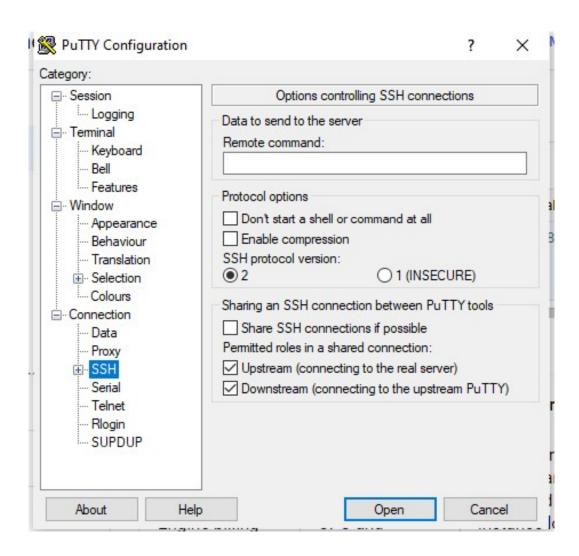
Preferably Save in Desktop



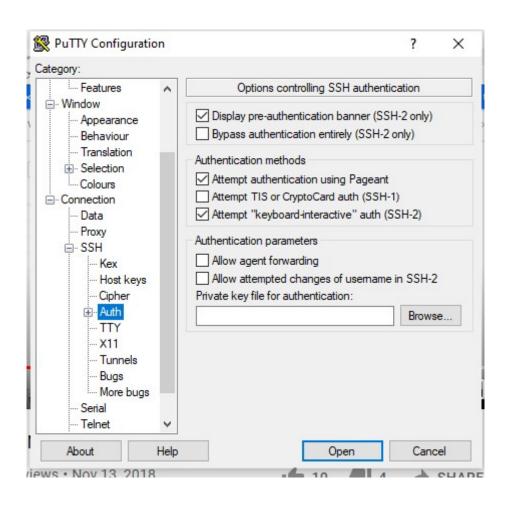
Putty Configuration



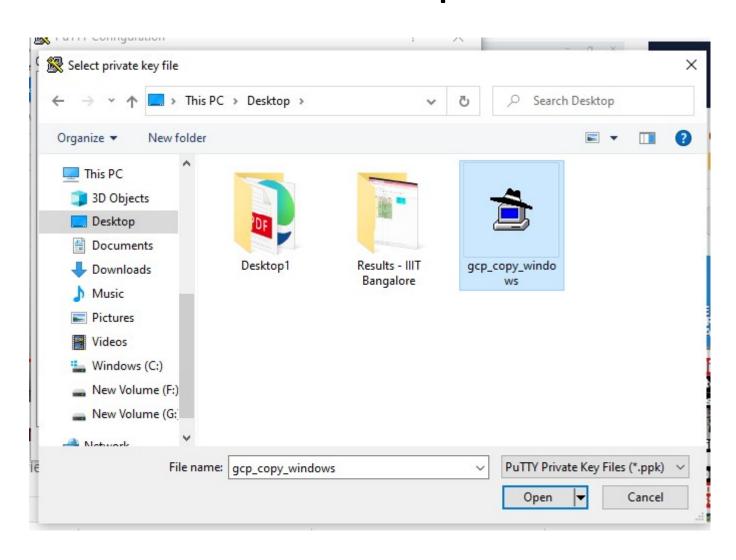
Click on SSH



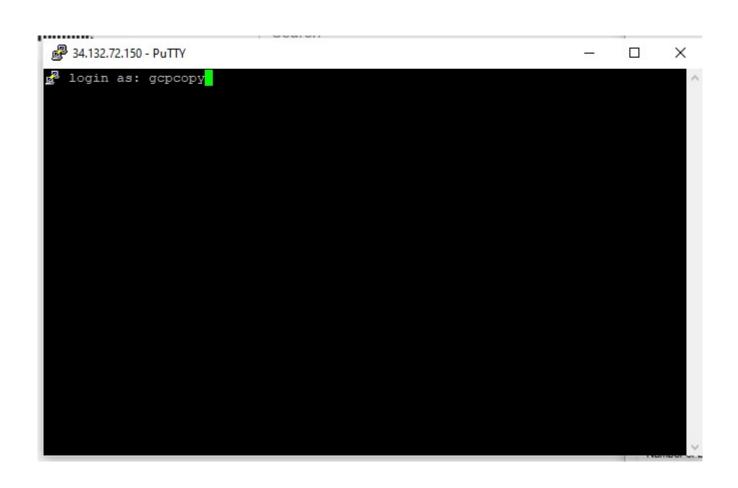
Click on Authentification



Browse for the Private Key File saved in Desktop



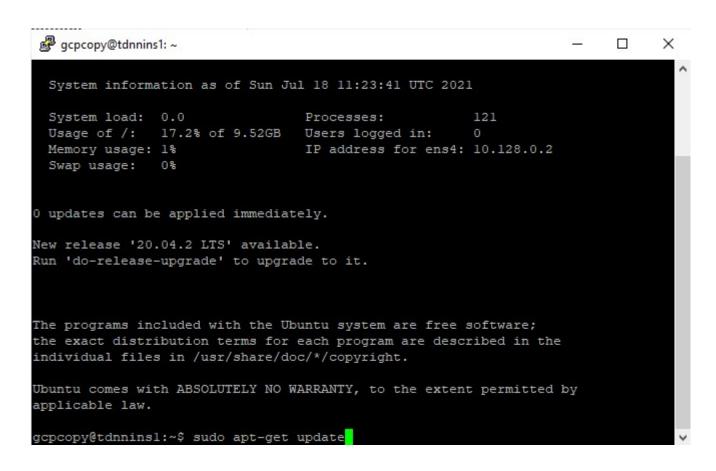
Putty Terminal with **gcpcopy** name given in Key Comment



Simply Enter

```
* Documentation: https://help.ubuntu.com
 * Management:
                  https://landscape.canonical.com
 * Support:
                  https://ubuntu.com/advantage
  System information as of Sun Jul 18 11:23:41 UTC 2021
  System load: 0.0
                                                      121
                                 Processes:
  Usage of /: 17.2% of 9.52GB Users logged in:
 Memory usage: 1%
                                 IP address for ens4: 10.128.0.2
  Swap usage: 0%
0 updates can be applied immediately.
New release '20.04.2 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
gcpcopy@tdnninsl:~$
```

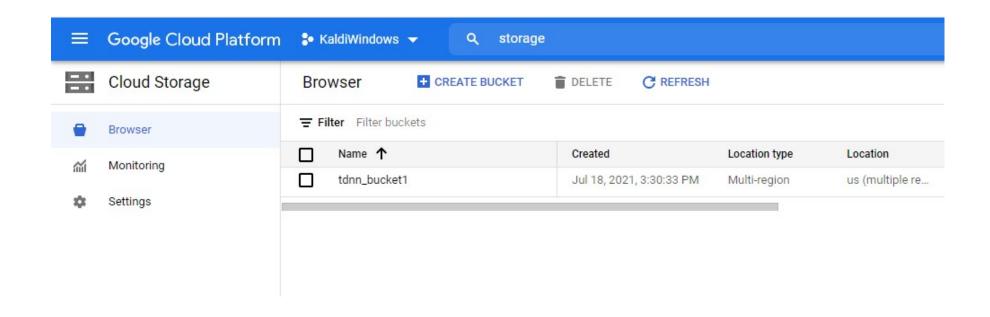
Sudo apt-get update



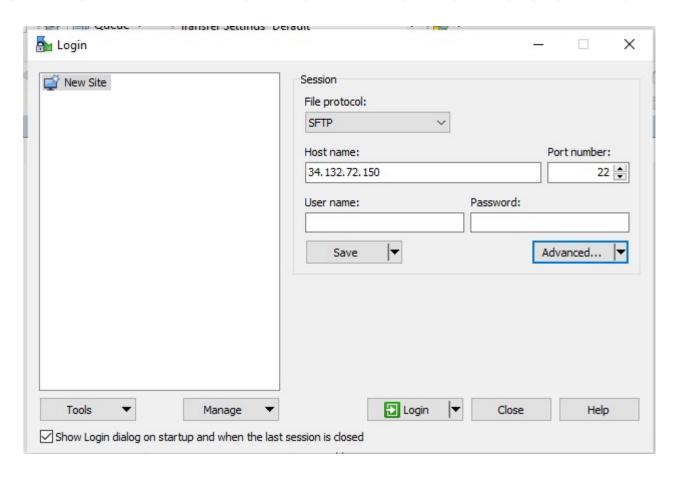
Update....Done

```
gcpcopy@tdnnins1: ~
                                                                         e Translation-en [6792 B]
Get:15 http://us-centrall.gce.archive.ubuntu.com/ubuntu bionic-backports/main am
d64 Packages [10.0 kB]
Get:16 http://us-centrall.gce.archive.ubuntu.com/ubuntu bionic-backports/main Tr
anslation-en [4764 B]
Get:17 http://us-centrall.gce.archive.ubuntu.com/ubuntu bionic-backports/univers
e amd64 Packages [10.3 kB]
Get:18 http://us-centrall.gce.archive.ubuntu.com/ubuntu bionic-backports/univers
e Translation-en [4588 B]
Get:19 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [17
Get:20 http://security.ubuntu.com/ubuntu bionic-security/main Translation-en [32]
9 kB1
Get:21 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 Packages
Get:22 http://security.ubuntu.com/ubuntu bionic-security/universe Translation-en
 [256 kB]
Get:23 http://security.ubuntu.com/ubuntu bionic-security/multiverse amd64 Packag
es [19.2 kB]
Get:24 http://security.ubuntu.com/ubuntu bionic-security/multiverse Translation-
en [4412 B]
Fetched 22.3 MB in 4s (5271 kB/s)
Reading package lists... Done
gcpcopy@tdnninsl:~$
```

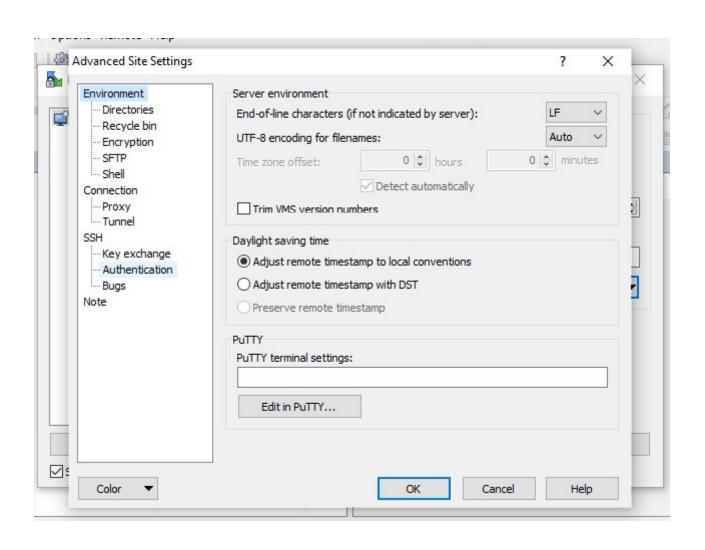
Creating Cloud Storage...Search for Storage



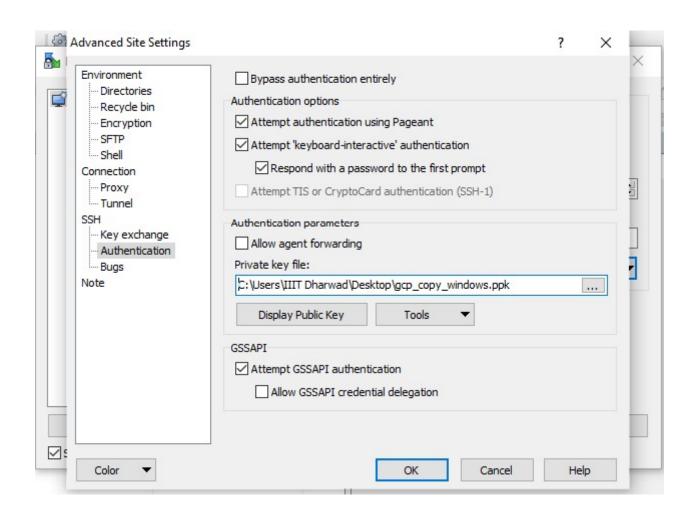
Open Winscp and Configure for External IP. Click on Advanced Button.



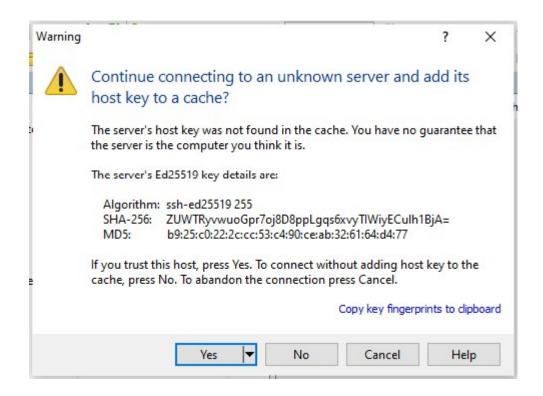
SSH and Click Authentification



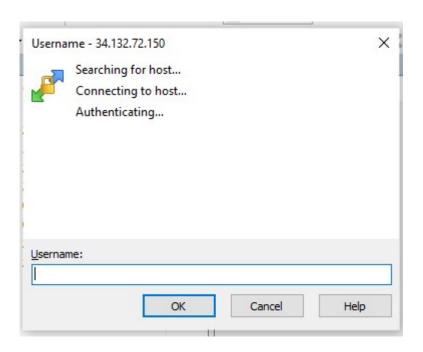
Browse for the Private Key File



Click Yes Button

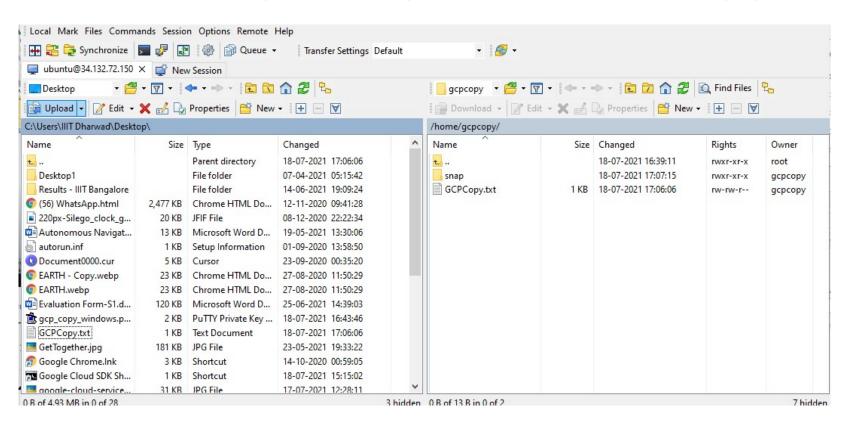


Username → gcpcopy



Username → gcpcopy

Left Panel is your local machine. Right Panel is your cloud storage. Can drag and drop files you want to copy



Done Configuring your Local Machine and GCP in Windows!