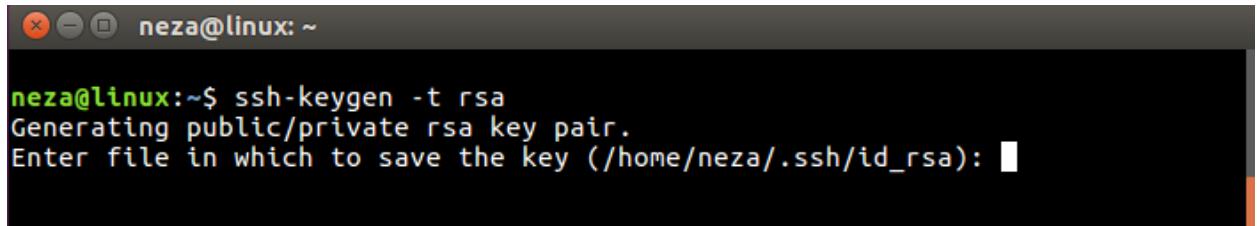


Setup SSH Keys for Google Cloud VM

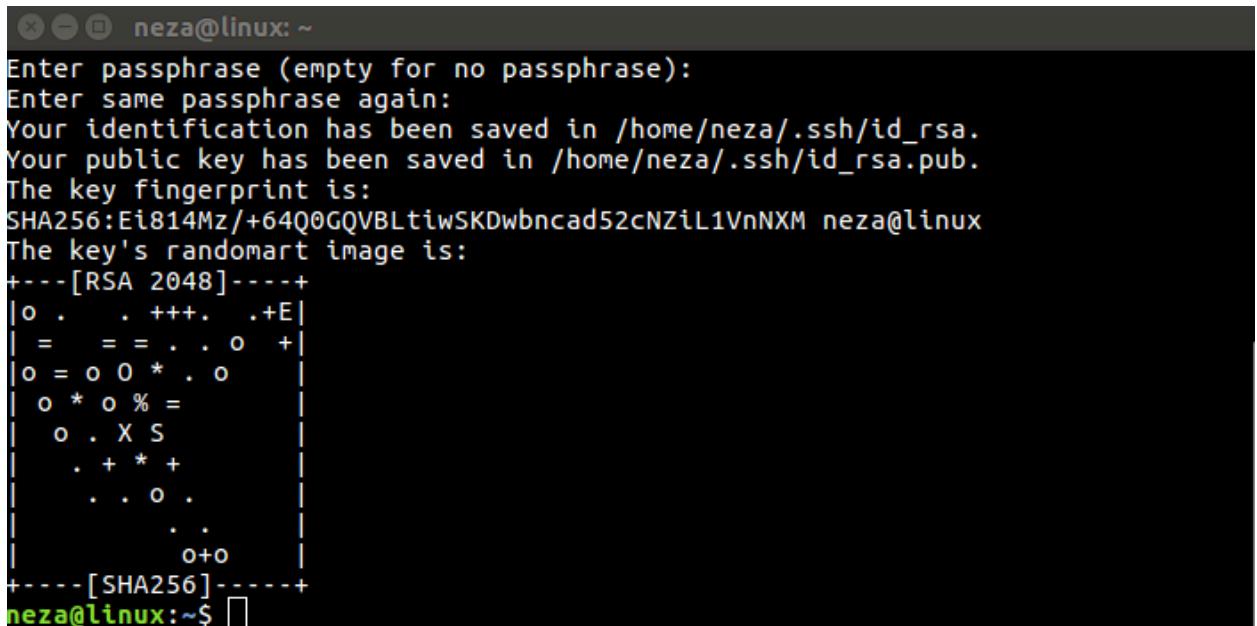
[Generate SSH Keys for MAC/Linux. Refer the link below for windows machine](#)

1. Enter the following command in Terminal: **ssh-keygen -t rsa** . It will start the key generation process. You will be prompted to choose the location to store the SSH key pair. Press ENTER to accept the default location as shown below:



```
neza@linux:~$ ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/home/neza/.ssh/id_rsa):
```

2. Next, choose a password for your login to the virtual machine or hit ENTER if you wish not to use a password. [You can just keep pressing ENTER and accept all defaults]. The private key (i.e. identification) and the public key will be generated as shown below:



```
neza@linux:~$ ssh-keygen -t rsa
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/neza/.ssh/id_rsa.
Your public key has been saved in /home/neza/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:Ei814Mz/+64Q0GQVBLtiwSKDwbncad52cNZiL1VnNXM neza@linux
The key's randomart image is:
+---[RSA 2048]---+
|o . . +++. .+E|
|= = = . . o +|
|o = o O * . o |
| o * o % =
| o . X S
| . + * +
| . . o .
| . .
| o+o
+---[SHA256]---+
neza@linux:~$
```

3. Now run the following command: `cat ~/.ssh/id_rsa.pub` . It will display the public key in the terminal as shown below. Highlight and copy this key:

```
neza@linux:~$ The key's randomart image is:
+---[RSA 2048]---+
|o . . +++. .+E|
|= = = . . o +|
|o = o 0 * . o |
|o * o % =
|o . X S
|. + * +
| . . o .
| . .
|o+o
+---[SHA256]---+
neza@linux:~$ cat ~/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQDdnDh2+9oQFCIissnEiPTNryuiI8aZobm8XZC+ziCay
Id3hQo+B/Tj/xi2lxIksoGJ4ws923dycVF0+pVQQgSUo02svi02ZLn2EeLpQhJPEYyHaPDc5u7wMjVjsj9
9quoBdeL8ZEkj0WkyXKMpXOeNWN9RPAXJqz+6c9YUTTUtvHlrAHOMVuZRPMKMEZ3CEyXDA+Q3GkOKvge8
3nA1TINfrS8kQIK9kZG8xYBxf/CY1IJIXYOFmzMcjVWisDcy/Q6Pgb3s03jJxj+dCSPlkBUDrLZ88uuuQ
By4zA5ZVndDTv4SF2l5swsT/G6tPiGw5kJ0b7prkNW3tg2qCYNrL neza@linux
neza@linux:~$
```

4. Click on your instance name, for this eg : **democlass**

The screenshot shows the Google Cloud Compute Engine interface. On the left, there's a sidebar with navigation links like 'Compute Engine', 'Virtual machines', 'Instance templates', 'Sole-tenant nodes', 'Machine images', 'TPUs', 'Committed use discounts', 'Migrate to Virtual Machine...', 'Disks', 'Snapshots', 'Images', 'Instance groups', 'Marketplace', and 'Release Notes'. The main area is titled 'VM Instances' and contains tabs for 'INSTANCES' and 'INSTANCE SCHEDULES'. Below these tabs, there's a message about getting better visibility into VMs by installing Ops Agent. A 'DISMISS' button is present. A note states: 'VM instances are highly configurable virtual machines for running workloads on Google infrastructure.' Below this note is a 'Filter' input field with placeholder text 'Enter property name or value'. A table lists two VM instances:

Status	Name	Zone	Recommendations	In use by	Connect
<input type="checkbox"/>	democlass	us-central1-a			SSH <input type="button" value="⋮"/>
<input type="checkbox"/>	demosectiona	us-central1-a			SSH <input type="button" value="⋮"/>

Below the table, there's a section titled 'Related actions' with two buttons: 'Explore Backup and DR' and 'View billing report'.

5. Click on **Edit** on the top menu

The screenshot shows the Google Cloud Compute Engine interface. On the left, there's a sidebar with various project and instance management options like Virtual machines, Instance templates, Sole-tenant nodes, Machine images, TPUs, Committed use discounts, Migrate to Virtual Machine, Storage, Disks, Snapshots, Images, Instance groups, Marketplace, and Release Notes. The main content area is titled 'democlass' and shows the 'Edit' tab selected. It includes sections for DETAILS, OBSERVABILITY, OS INFO, and SCREENSHOT. Under DETAILS, there's a 'Logs' section with Cloud Logging and Serial port 1 (console) options, and a note that connecting to serial ports is disabled. Below that is a 'Basic information' table with fields like Name (democlass), Instance Id (7465346530269638396), Description (None), Type (Instance), Status (Stopped), Creation time (Oct 12, 2022, 2:05:55 PM UTC-05:00), Zone (us-central1-a), Instance template (None), In use by (None), Reservations (Automatically choose), Labels (None), Tags (None), and Deletion protection (Disabled).

6. Scroll down to Security and access, Under SSH Keys, click on Add Item and paste the key you copied from your terminal. Then click on Save.

The screenshot shows the 'Edit democlass instance' page under the 'Security and access' section. It includes a 'Shielded VM' section with options for Turn on Secure Boot, Turn on vTPM (which is checked), and Turn on Integrity Monitoring. Below that is an 'SSH Keys' section with a note that these keys allow access only to this instance. It features three input fields labeled 'SSH key 1', 'SSH key 2', and 'SSH key 3', each containing a long string of characters. There are also 'Enter public SSH key' buttons next to each field. At the bottom of the section is a blue '+ ADD ITEM' button. Other sections visible include 'Identity and API access'.

7. Now you should be able to SSH from your terminal to the machine using the public IP address.
8. Repeat the same process for all your teammates, for them to be able to access the machine.

Src:

<https://www.freecodecamp.org/news/how-to-create-and-connect-to-google-cloud-virtual-machine-with-ssh-81a68b8f74dd/>

For Windows as well as other users

<https://docs.github.com/en/authentication/connecting-to-github-with-ssh/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent?platform=mac>