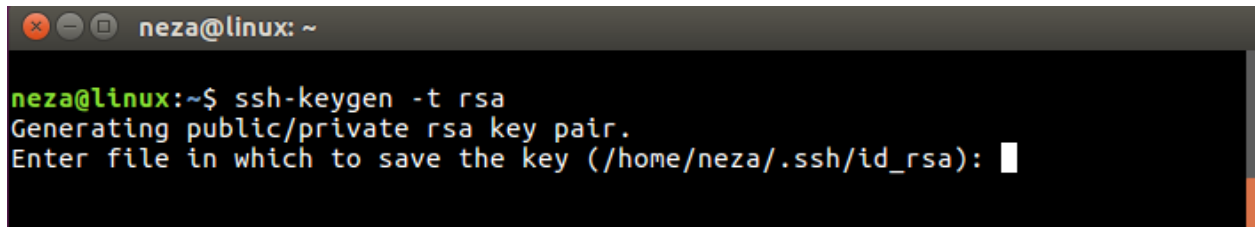


# Setup SSH Keys for Google Cloud VM

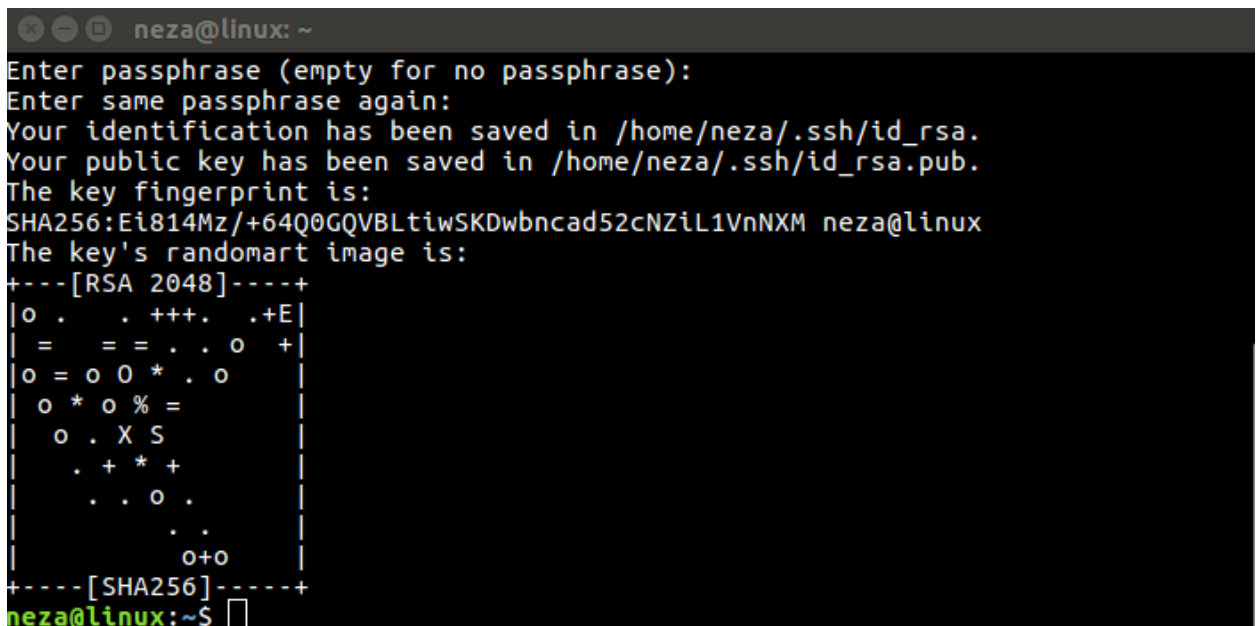
Generate SSH Keys for MAC/Linux. Refer the link below for windows machine

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:

A terminal window titled 'neza@linux: ~' showing the command 'ssh-keygen -t rsa' being executed. The output indicates that a public/private RSA key pair is being generated and prompts the user to enter a file name to save the key, with the default path '/home/neza/.ssh/id\_rsa' shown.

```
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:

A terminal window titled 'neza@linux: ~' showing the completion of the SSH key generation process. It prompts for a passphrase (which is accepted as empty), confirms the passphrase, and displays the file locations for the private and public keys, the key fingerprint, and a randomart image for the RSA 2048 key.

```
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 0 * . o|
| o * o % =|
| o . X S|
| . + * +|
| . . o .|
| . .|
| . o+o|
+---[SHA256]---+
neza@linux:~$
```

- ```
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:~$ cat ~/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQAdnmDh2+9oQFCCIssnEiPTNryuiI8aZobm8XZC+ziCay
Id3hQo+B/Tj/xi2lxIksoGJ4ws923dycVF0+pVQQgSUo02svi02ZLn2EeLpQhJPEYyHaPDc5u7wMjVjsj9
9quoBdeL8ZEKj0WkyXKMpX0eNWN9RPAXJqz+6c9YUttUtvHlRAHOMVuzRPMKMEZ3CEyXDA+Q3Gk0Kvge8
3nA1tINfrS8kQIK9kZG8xYBxf/CY1IJIxY0FmzMcfjVwisDcy/Q6Pgbb3s03jJxj+dCSPlkBUdrLZ88uuuQ
By4zA5ZVndDTv4SF2l5swsT/G6tPiGw5kJ0b7prkNW3tg2qCYNrL neza@linux
neza@linux:~$
```

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Filter

 Enter property name or value

| <input type="checkbox"/> | Status | Name ↑                       | Zone          | Recommendations | In use by | Connect |
|--------------------------|--------|------------------------------|---------------|-----------------|-----------|---------|
| <input type="checkbox"/> |        | <a href="#">democlass</a>    | us-central1-a |                 |           | SSH ▾ ⋮ |
| <input type="checkbox"/> |        | <a href="#">demosectiona</a> | us-central1-a |                 |           | SSH ▾ ⋮ |

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

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democlass EDIT RESET CREATE MACHINE IMAGE

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SSH CONNECT TO SERIAL CONSOLE

Connecting to serial ports is disabled

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Serial port 1 (console)

SHOW MORE

Basic information

|                     |                                    |
|---------------------|------------------------------------|
| 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                |                                    |
| 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.

Compute Engine

Edit democlass instance HELP ASSISTANT

Security and access

Shielded VM

Turn on all settings for the most secure configuration.

Turn on Secure Boot

Turn on vTPM

Turn on Integrity Monitoring

SSH Keys

These keys allow access only to this instance, unlike project-wide SSH keys. [Learn more](#)

Block project-wide SSH keys

When checked, project-wide SSH keys cannot access this instance. [Learn more](#)

SSH key 1

ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHA

Enter public SSH key

SSH key 2

ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQBAg16Yiqx4zcfPUAg7QMugilV

Enter public SSH key

SSH key 3

ty9TtQ7vv29+bu4KTyUhRryxTW+SUDmnKF8XyV.JQj8= harshit@Harshits-Air

Enter public SSH key

+ ADD ITEM

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>**