How to Install gcloud on Ubuntu?

written by sysadmin | 22 January 2025

The previous article explained how the install gcloud on RockyLinux/AlmaLinux/CentOS. This article will explain how to install gcloud on Ubuntu.

Problem

How to install gcloud on Ubuntu?

Solution

Here are the steps to install gcloud on Ubuntu/Debian:

A. Install gcloud

As far as I know, there are 3 methods to install gcloud on Ubuntu/Debian and the methods recommend using a user other than root.

1. Using the script

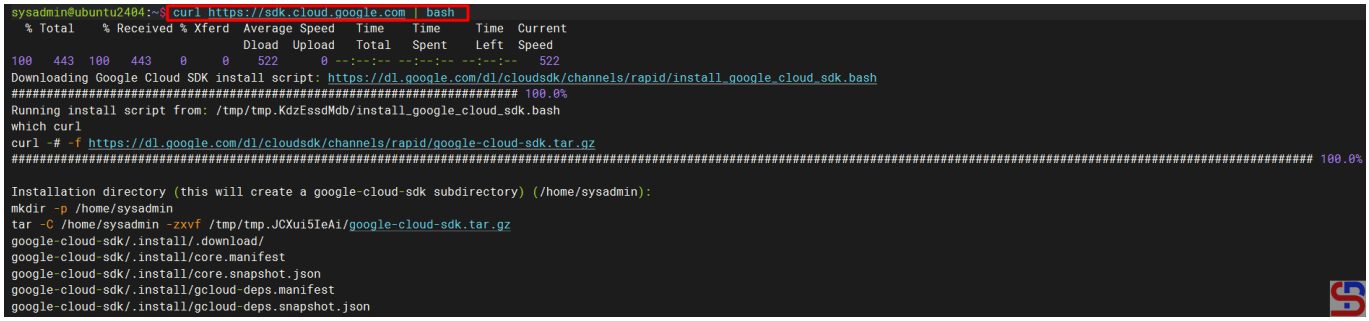
Before you download the script, install the packages using the command below:

```
sudo apt update
sudo apt-get install curl tar
```

Use the below command to download and install the script:

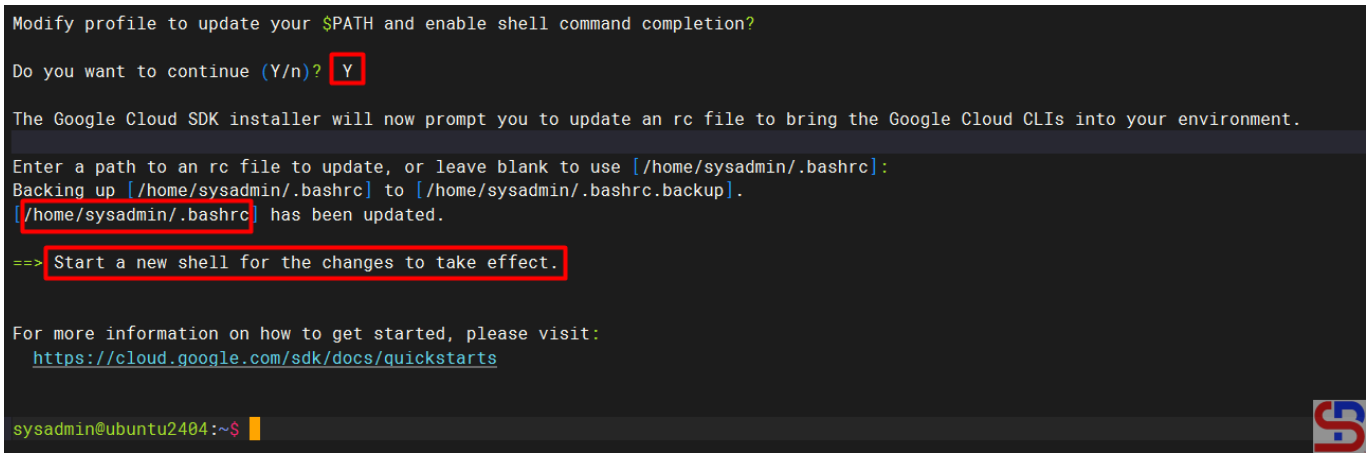
```
curl https://sdk.cloud.google.com | bash
```

Then you will see a display like the one below:



Install gcloud using the script

Wait until it’s finished, and you will see a display like the one below:



Installation complete

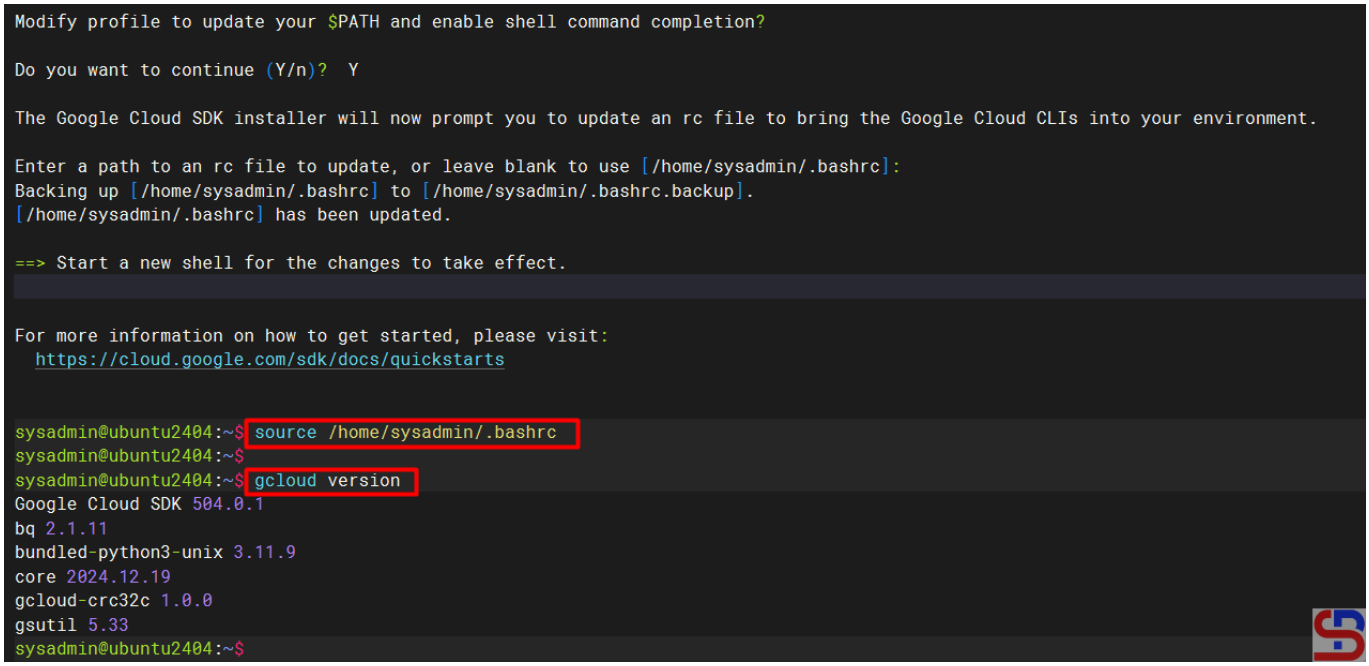
From the image above, you are asked to create a new SSH connection so that the effect can be seen, and type the command below:

```
gcloud version
```

However, you can use the command below:

```
source /home/sysadmin/.bashrc
```

So you don’t need to create a new SSH connection to run the gcloud version command, which results in the image below:



Check the result of the installation

2. Using the repository

Type the following commands to install gcloud on the Ubuntu/Debian distro:

```
sudo apt update
echo 'deb [signed-by=/usr/share/keyrings/cloud.google.gpg]
https://packages.cloud.google.com/apt cloud-sdk main' | sudo tee -a
sudo apt-get -y install apt-transport-https ca-certificates gnupg
curl https://packages.cloud.google.com/apt/doc/apt-key.gpg | sudo apt-key --
keyring /usr/share/keyrings/cloud.google.gpg add -
sudo apt update
sudo apt-get install -y google-cloud-sdk
```

3. Using the snap

Run the below command to install gcloud:

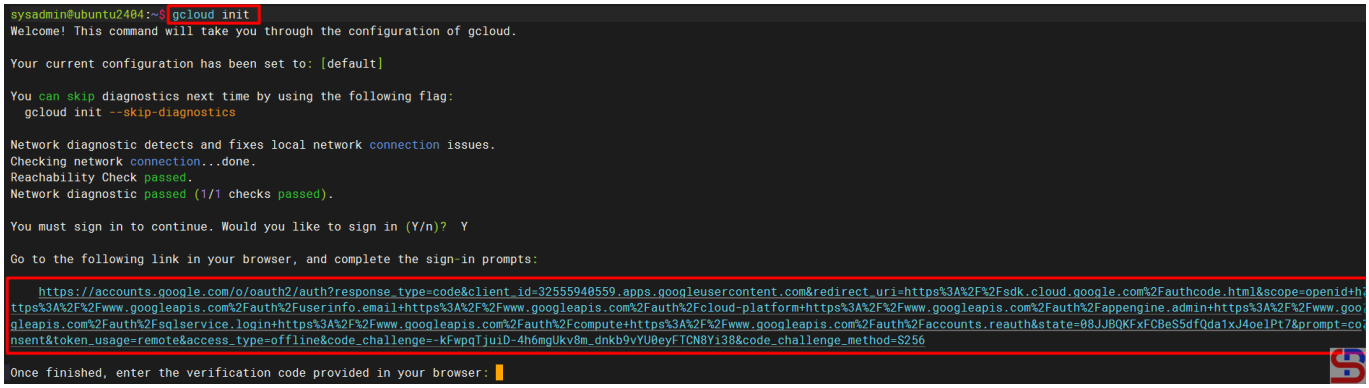
```
sudo snap install google-cloud-sdk --classic
```

B. Connect to GCP

After you install gcloud on your server, type the command below:

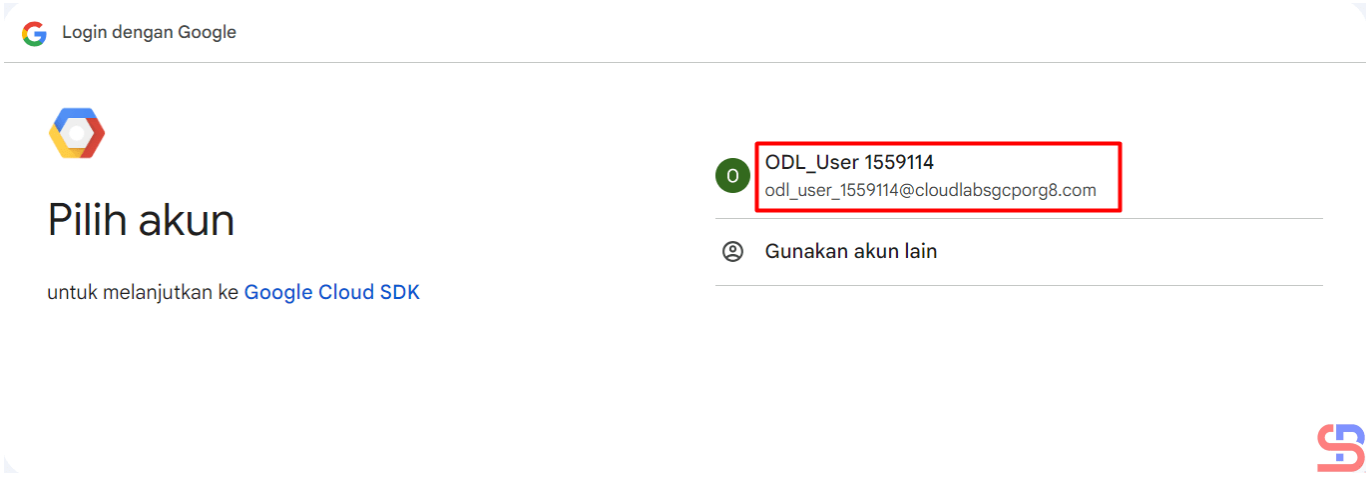
```
gcloud init
```

Then there will be a display like the image below:



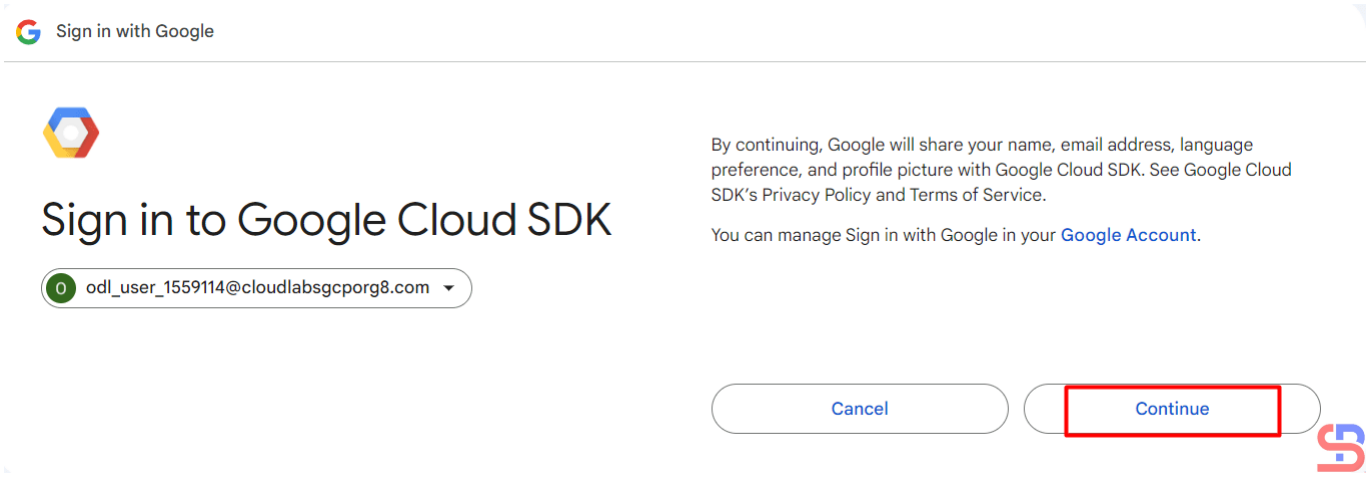
Click the link

You can open the link in a browser by clicking the **Ctrl+Click** button located in the red box. If you are having trouble doing so, copy what is included in the red box and paste it into your browser. This will allow you to view a display similar to the one that is shown below:



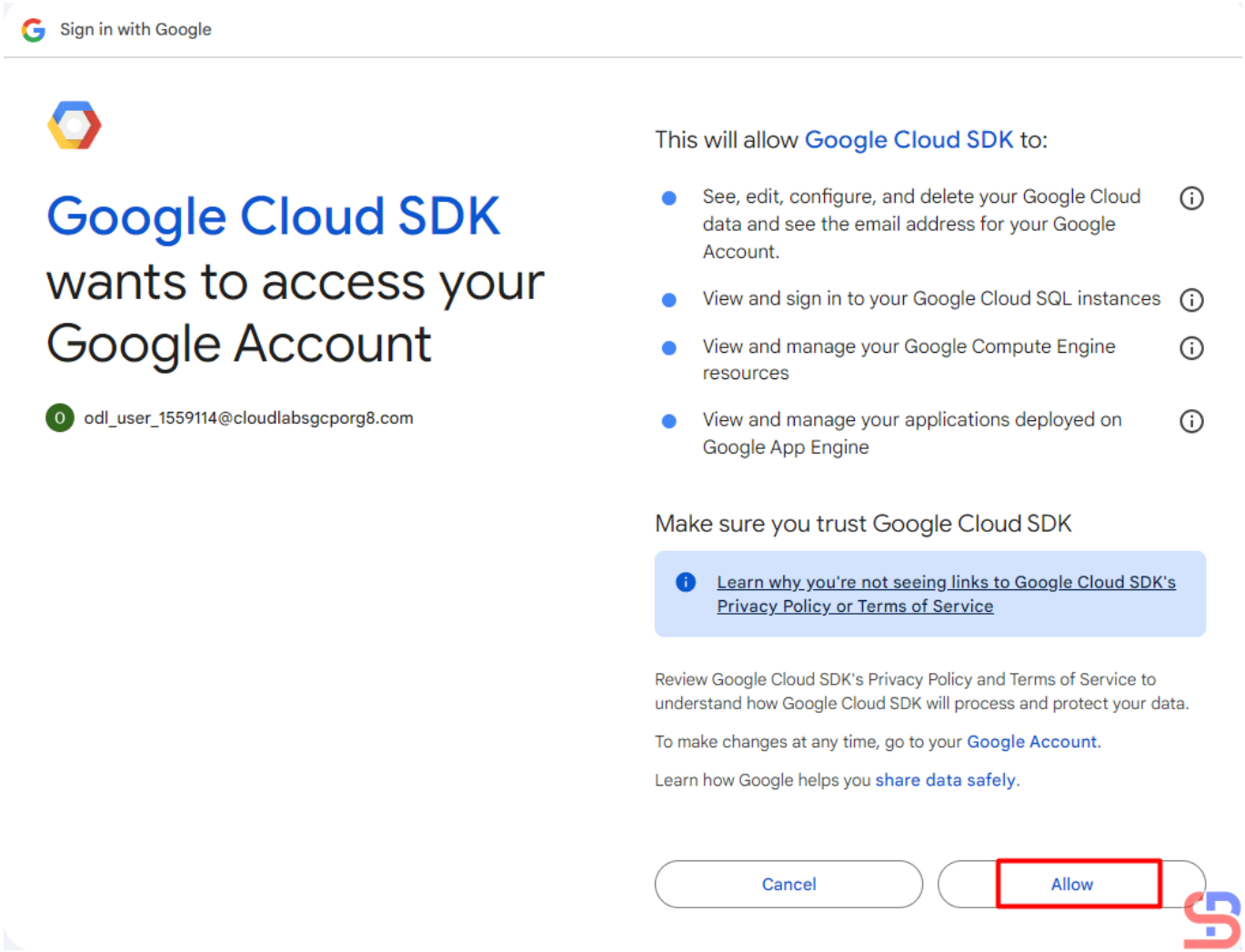
Click the account

When you click on your Google account, that will allow you to access GCP, and a display similar to the one shown below will appear:



Click the Continue button

After you click the **Continue** button, the screen below will show:



Click the Allow button

When you click the **Allow** button, the screen below will show:

Sign in to the gcloud CLI

You are seeing this page because you ran the following command in the gcloud CLI from this or another machine. If this is not the case, close this tab.

```
gcloud auth login --no-launch-browser
```

Enter the following verification code in gcloud CLI on the machine you want to log into. This is a credential **similar to your password** and should not be shared with others.

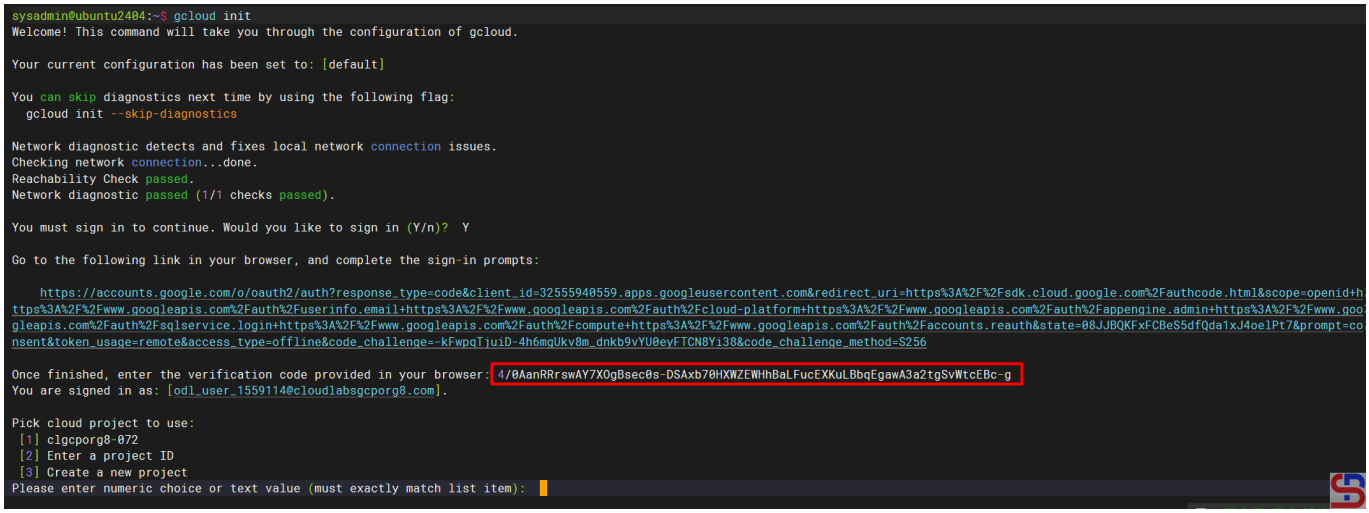
```
4/0AanRRrswAY7XOgBsec0s-DSAxb70HXWZEWH
hBaLFucEXKuLBbqEgawA3a2tgSvWtcEBc-g
```

Copy

You can close this tab when you're done.

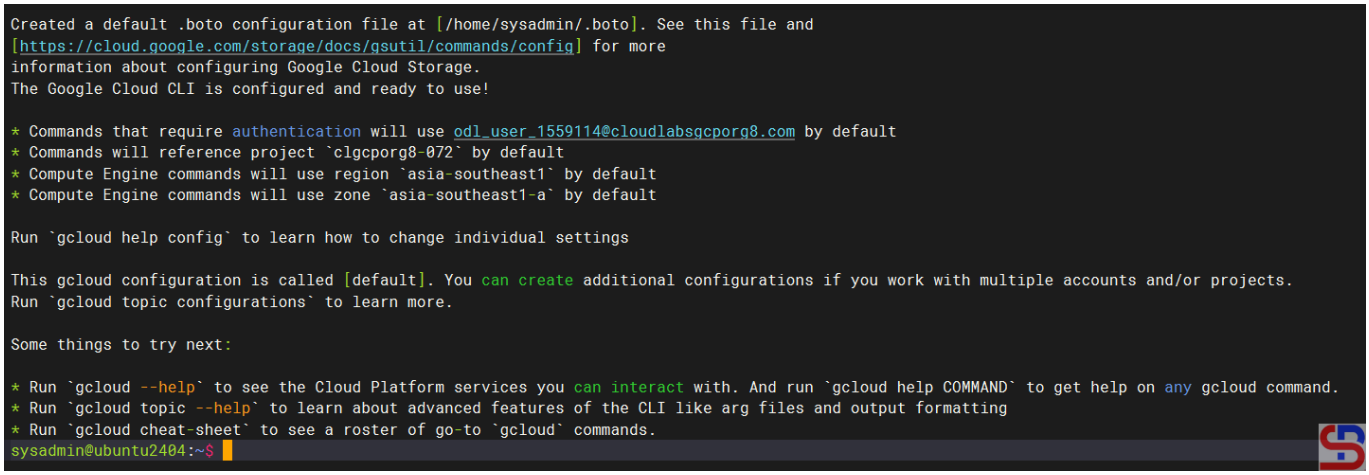
Click the Copy button

Click the **Copy** button, and paste it into the CLI on your server as in the image below:



Paste the code

Select the project and configure the zone as in the image above. After that, the gcloud configuration is complete, like in the image below:



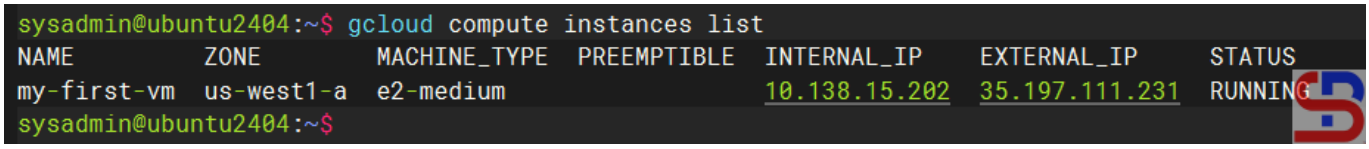
Installation of GCP is complete

C. Test gcloud

Now, try gcloud to access your GCP. I try to list my virtual machine in GCP using the below command:

```
gcloud compute instances list
```

Then the display below will appear:



Display virtual machine in GCP using gcloud

If you get a display like the image above, then you have successfully used your GCloud to access your GCP.

Note

If you have many projects on your GCP, you can choose one of these projects as the starting point for your gcloud on GCP. You can switch projects using the command:

```
gcloud config set project PROJECT_ID
```

Change **PROJECT_ID** to the project ID you want to switch to.

References

cloud.google.com
liquidweb.com
bacancytechnology.com
attuneops.io
tecadmin.net