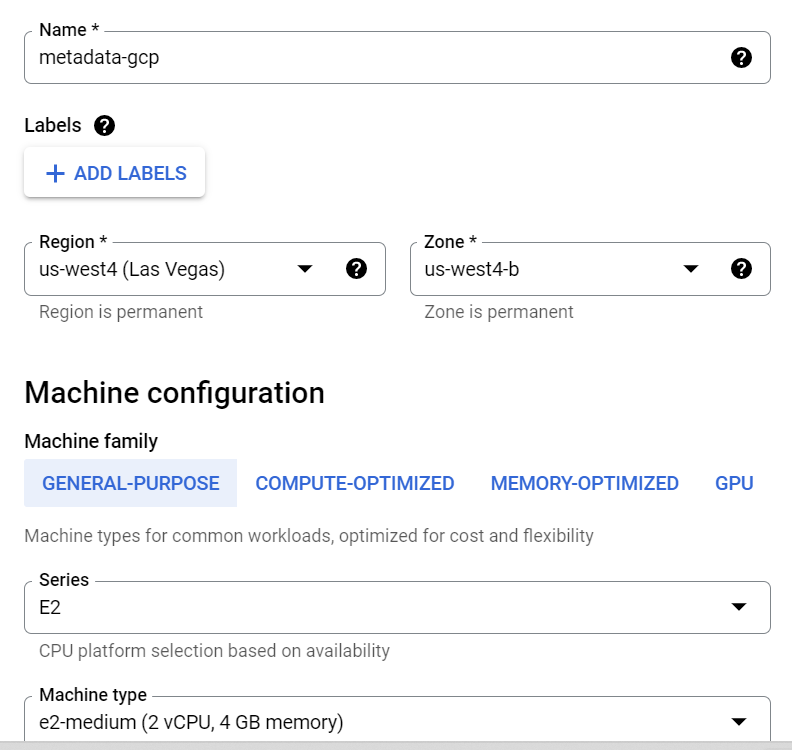
**Challenge #2**

We need to write code that will query the Meta data of an instance within AWS and provide a

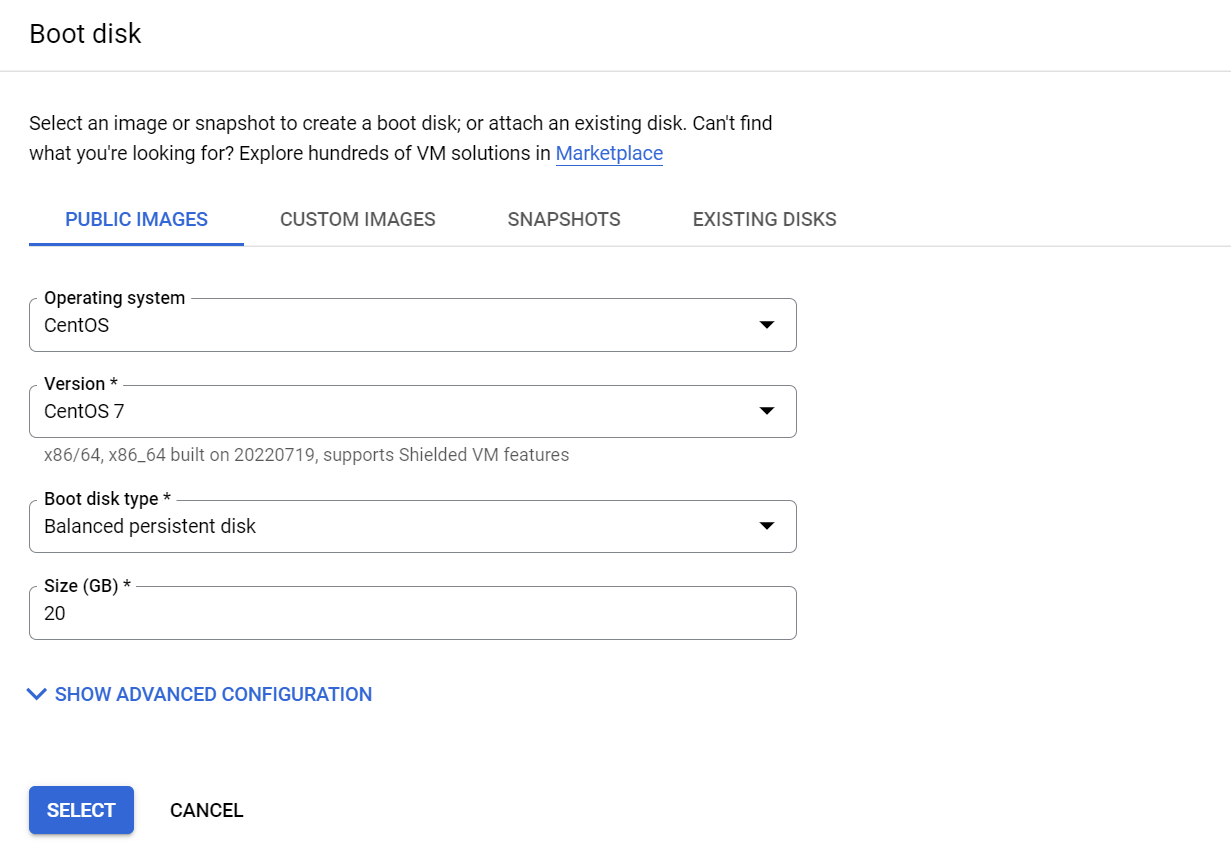
json formatted output. The choice of language and implementation is up to you.

Answer:

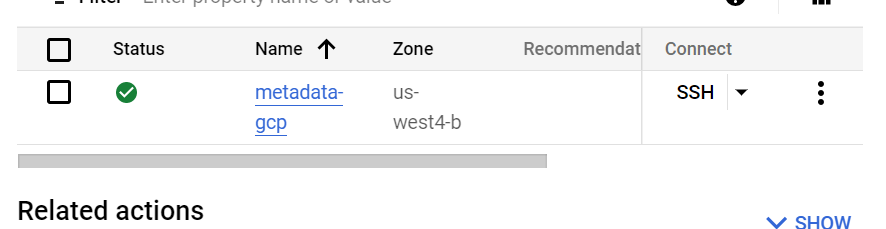
For the above task we are using Google cloud platform (GCP) to query the metadata of an instance. For this we are using a python code. Here I am implementing the task using a Virtual Machine, for this I have created an instance with 2vCPU and 4GB memory.



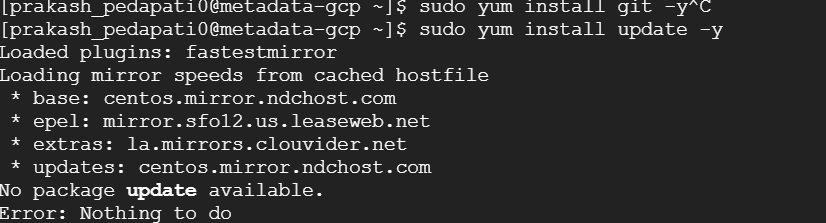
For the Instance I have given machine image as a Centos7 with Balanced persistence Disk of 20 GB and I have chosen default network with allowing http and https server.



Now after configuring the VM Instance I have created the server. And for logging into the we can use ssh .by clicking on ssh

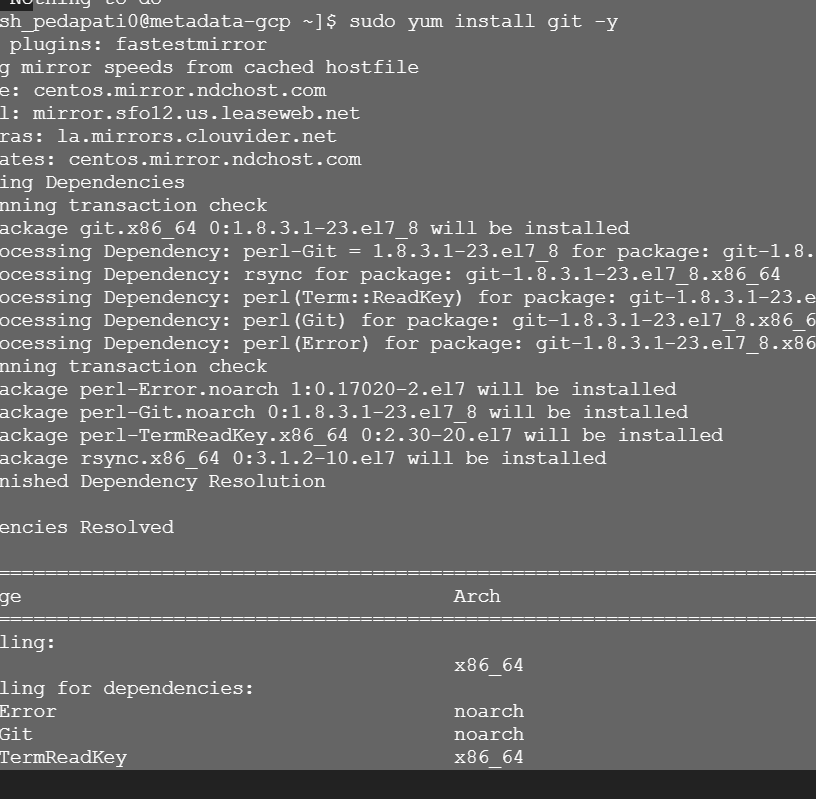


Once I have logged into the server, I have installed the dependencies or installations by using the command “**sudo yum install update -y** “ this command installs any latest installable available .

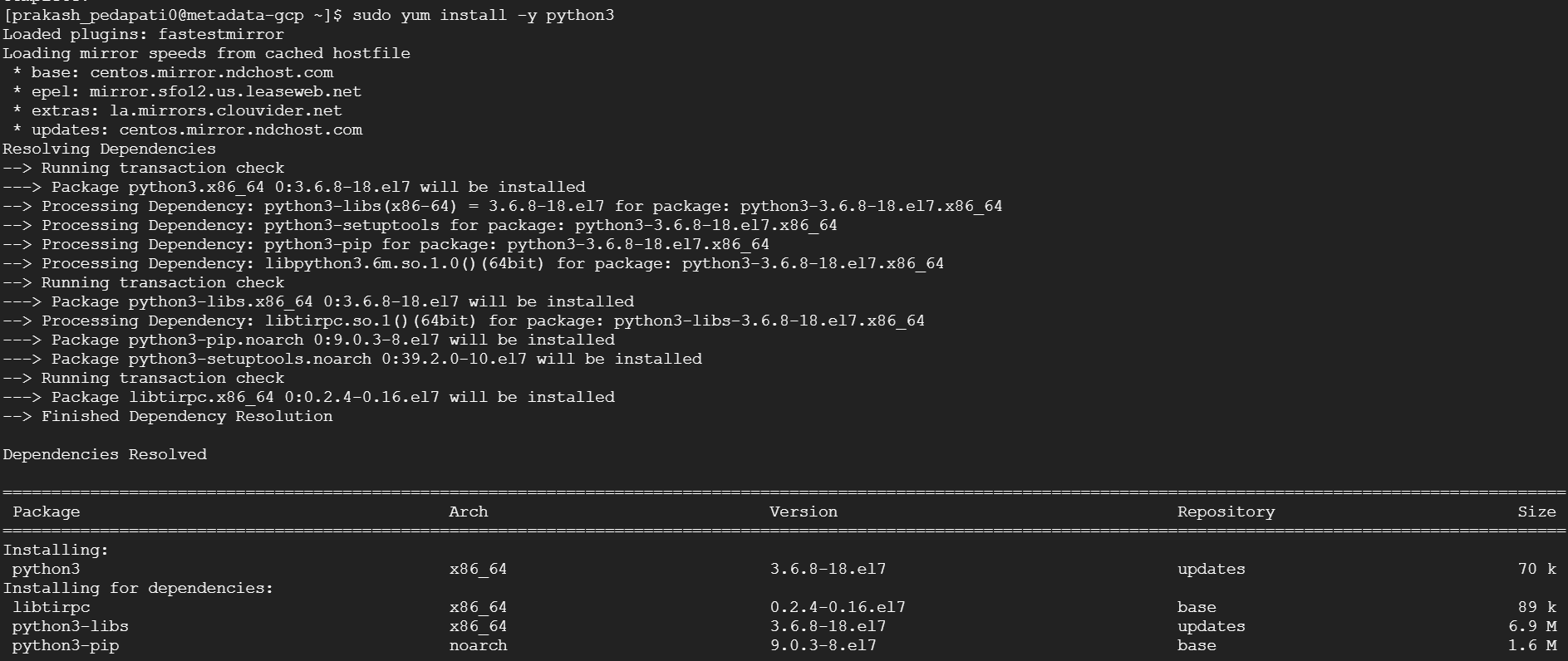


After installing the latest updates, I am installing the git by using the command -

“sudo yum install git -y” - this command install the git in our Linux server.



Now we have to install python by using the command - “ sudo yum install python -y”



Now I have created a ssh key by using command – “ssh-keygen -t rsa “this will create an ssh key both public and private. Now after creating a ssh key, now change directory to “.ssh “by using

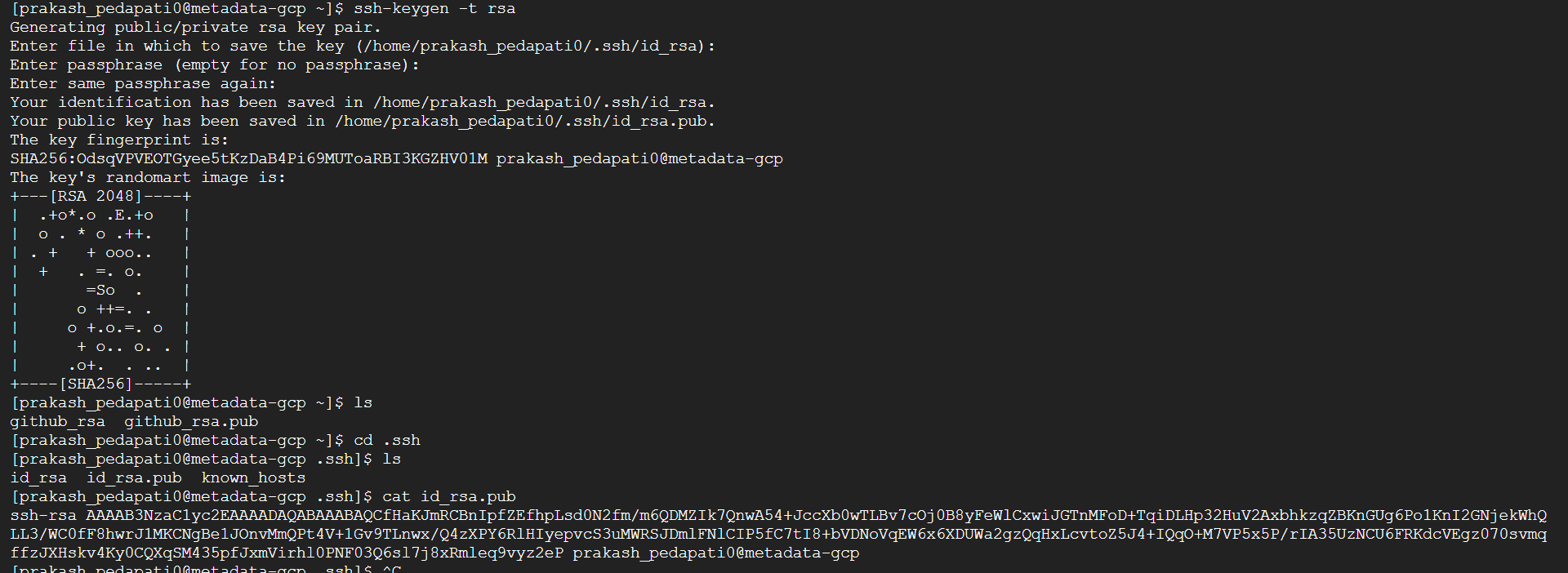
command - cd .ssh

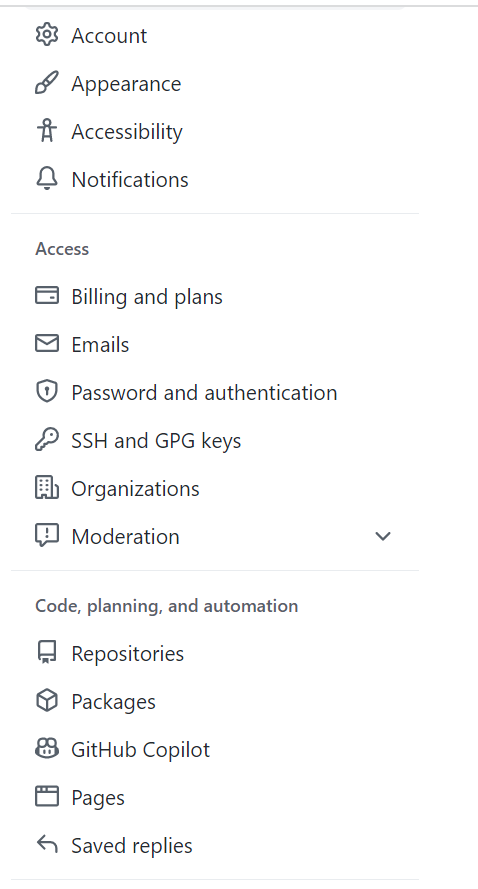
Now for seeing file - command – **ls**

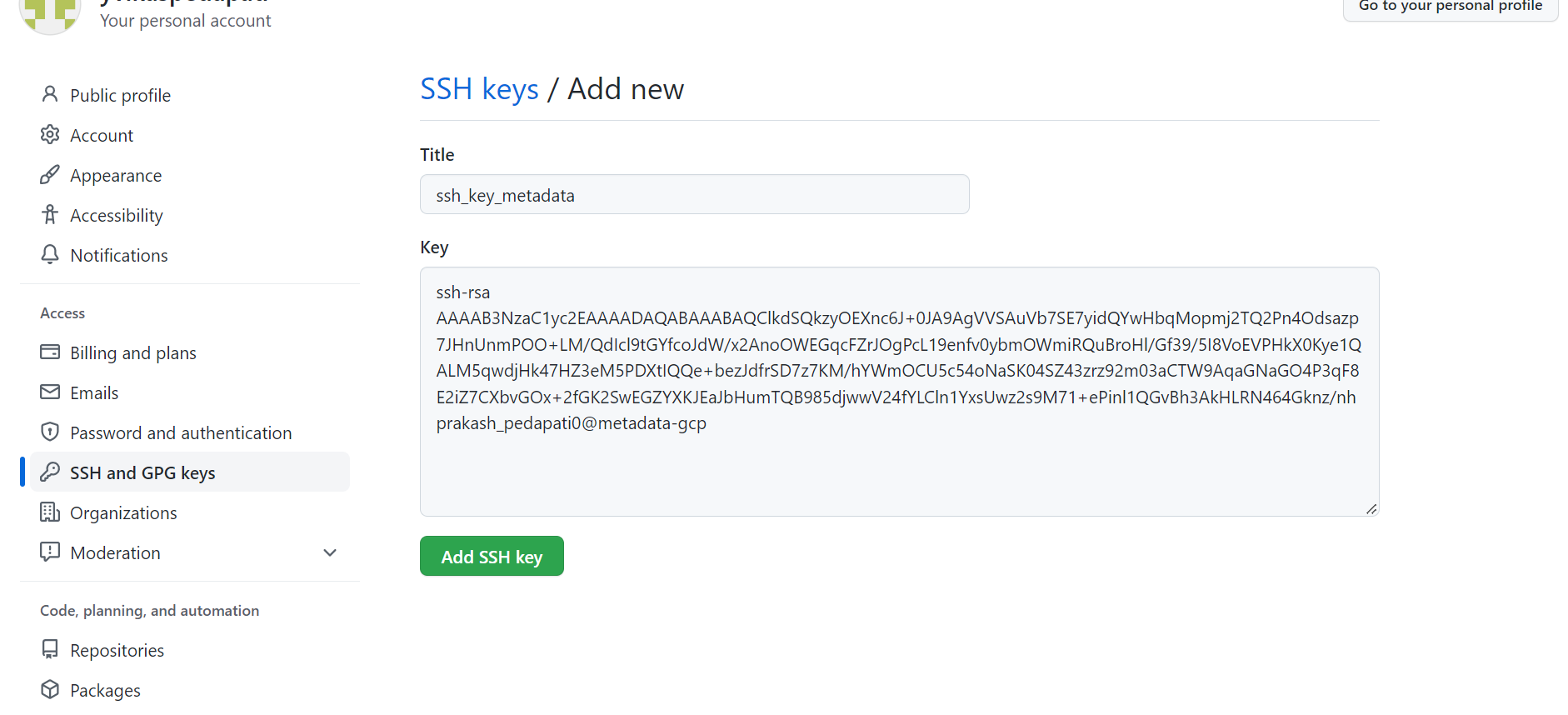
Now use command

cat id\_rsa.pub – it is a public ssh key. Now copy that ssh key into the github.

Goto setting in “GitHub” and now goto “SSH KEYS AND GPG KEYS” – now paste the ssh key in the Add ssh key.







After saving our ssh key in the github ,now clone the git hub code to the vm instance through ssh .

For this run command – git clone



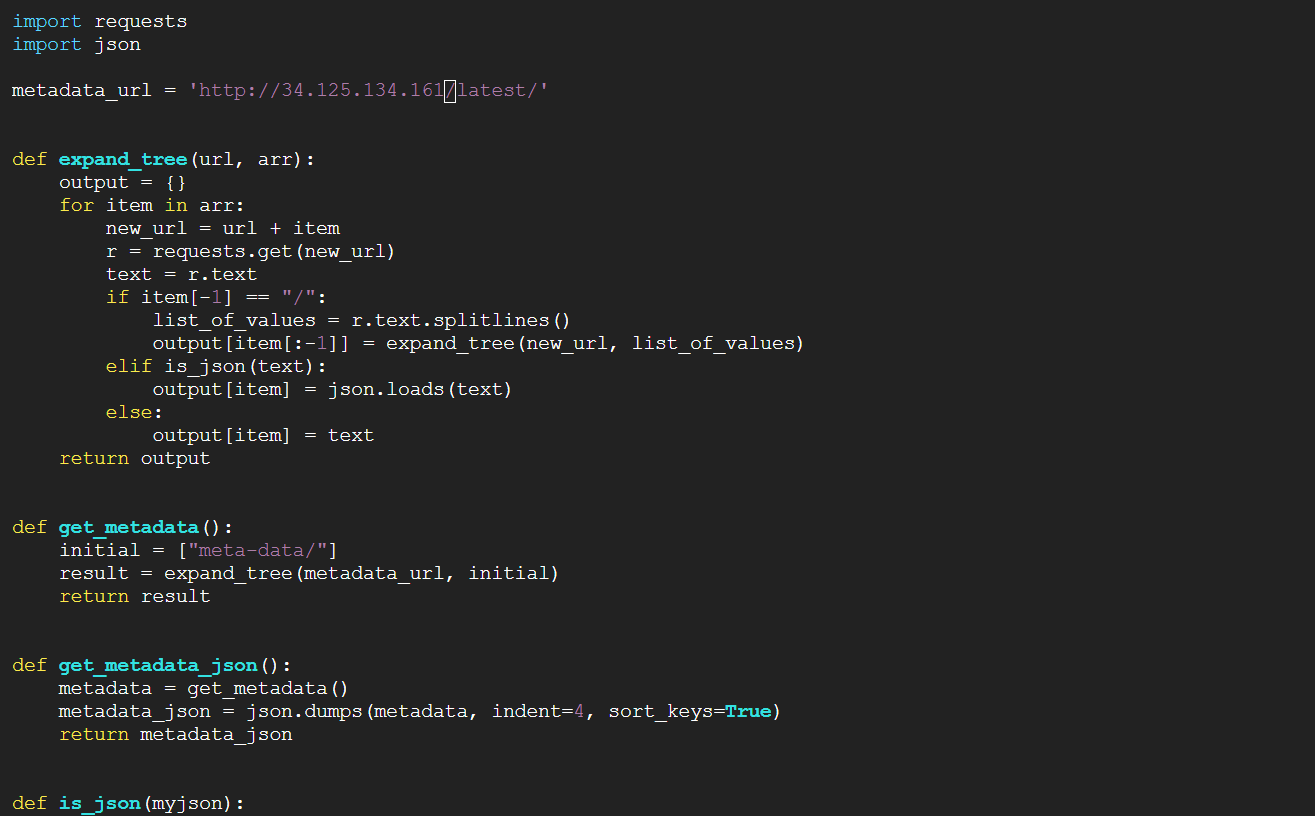
In the vm server to change directory - cd gcp-metadata-json-master

And then - cd src

Now - we have to change the ip address

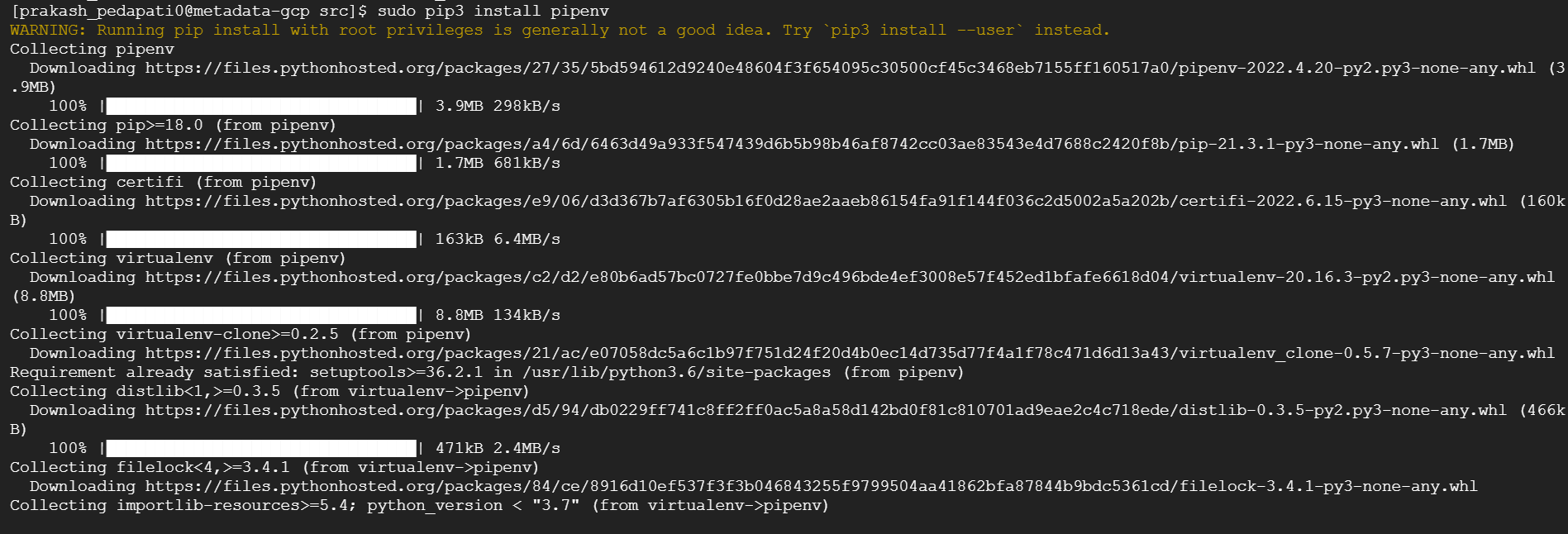
Command – vi get\_metadat.py

metadata\_url = ‘http://34.125.134.161/latest/’



**For installing pipenv**

**sudo pip3 install pipenv**



Open the repository on your instance

**cd gcp-metadata-json-master**

Install project dependencies

**pipenv install**

Now goto src (cd src)

Run command - **python3 get\_metadata.py**

**Python get\_key.py**

Open new browser we can open this URL **http://34.125.134.161/latest/** link-local address. And we will get Instance metatada is provided at this link.