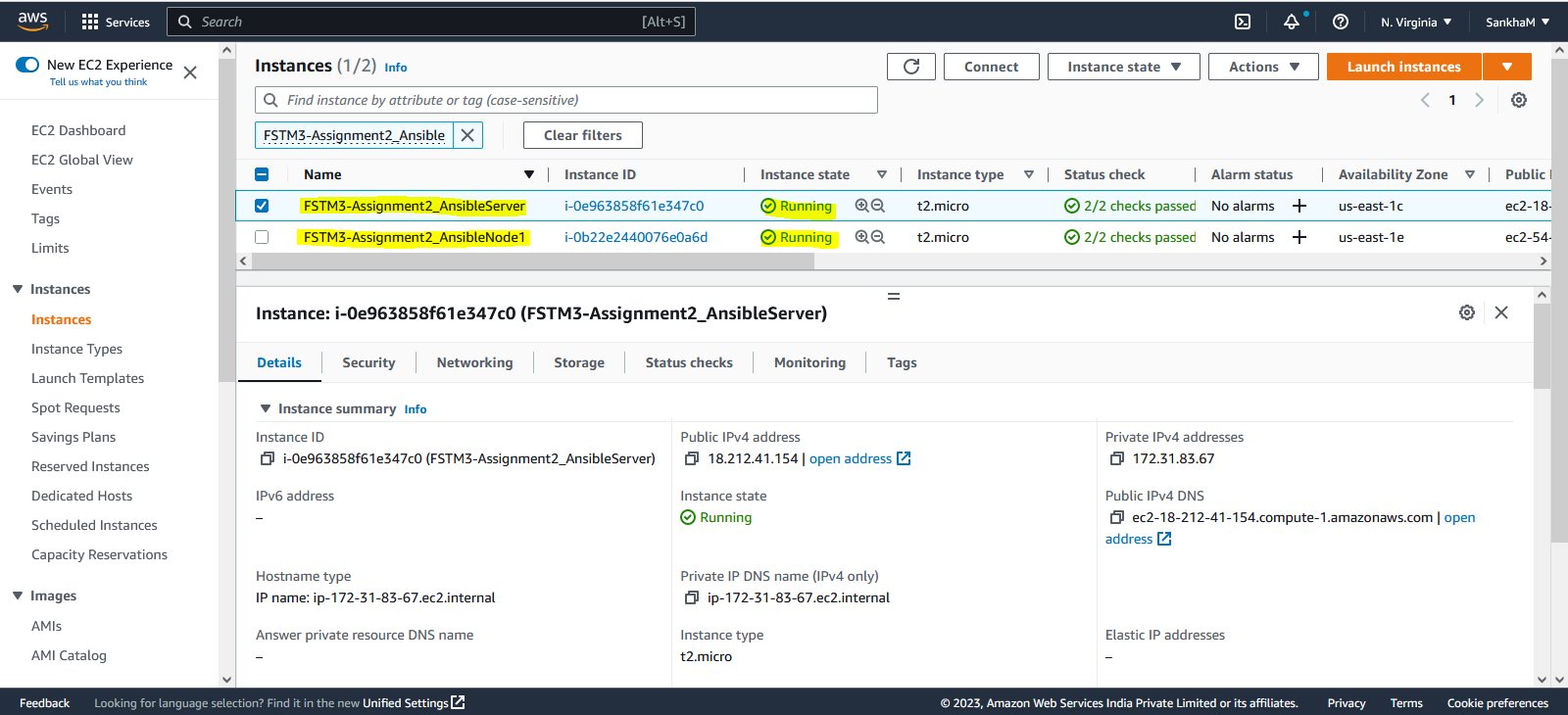
Graphical user interface, application

Description automatically generated

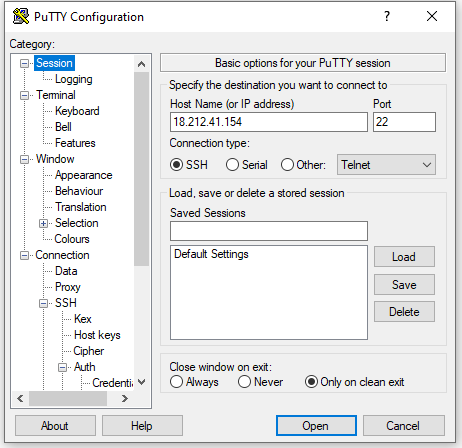
|  |
| --- |
| Cloud Testing Assignment 2: |
| Install ansible and connect the nodes to master and execute the adhoc commands on ansible masternode vm and test the packages installed or not. |

Logged in AWS Management console and created two Instances – 1 for Ansible Server and the other for Ansible node from Template in EC2 Instance dashboard.

Instance started and running:



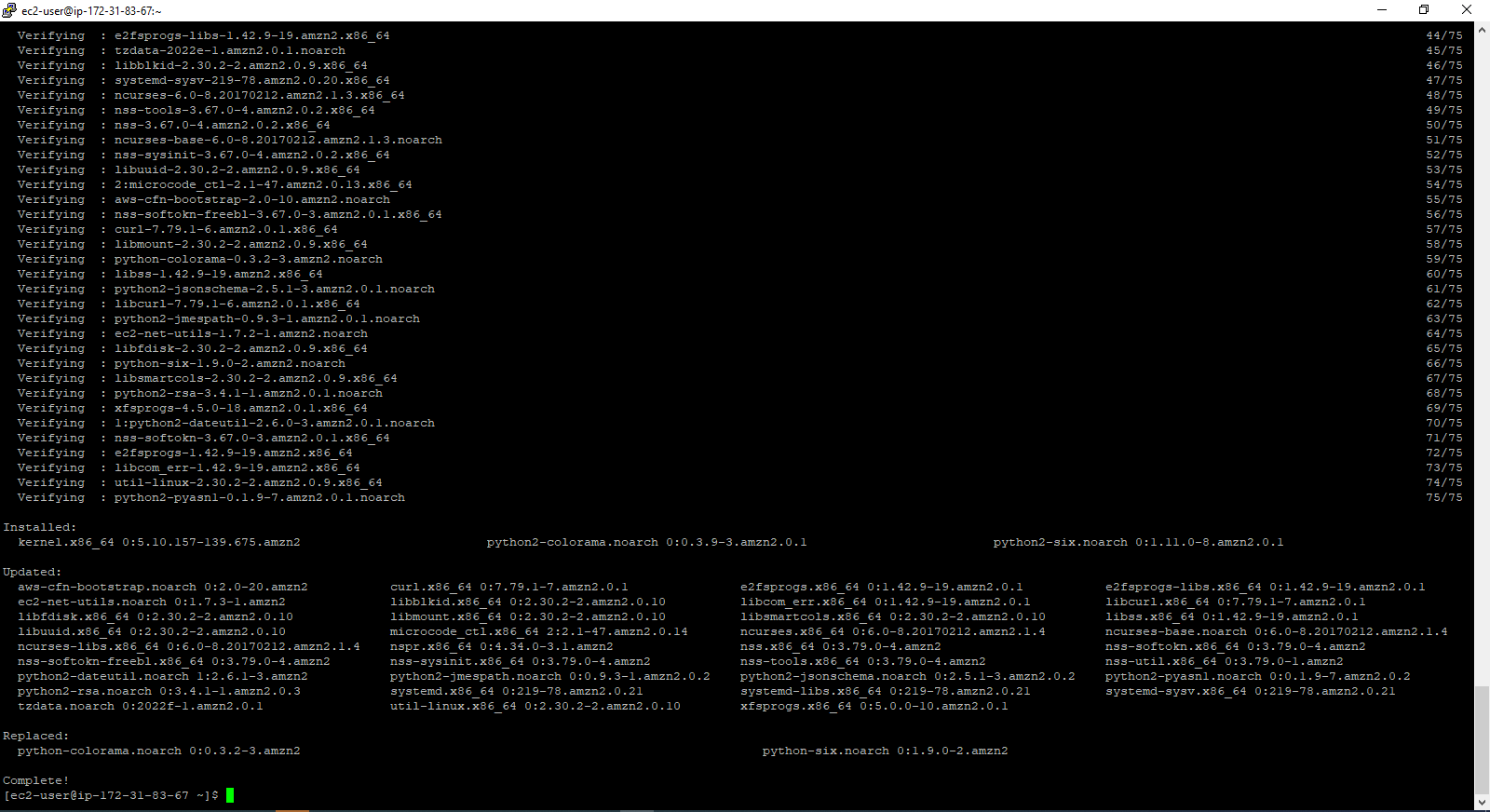
Connected the Ansible Server instance with putty using the key pair file:

 Text

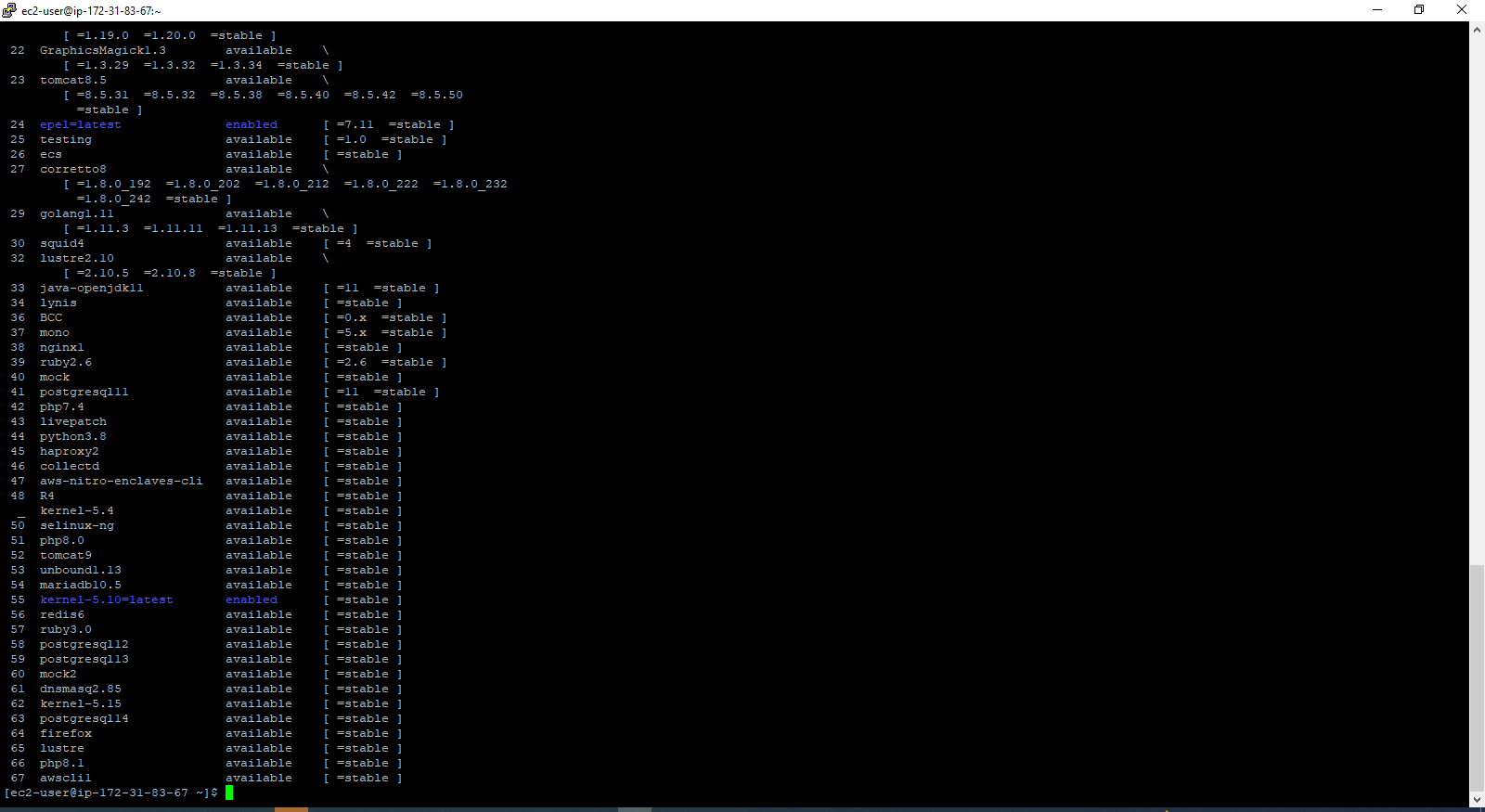
Description automatically generated

Ansible Installation in VM (AnsibleServer instance):

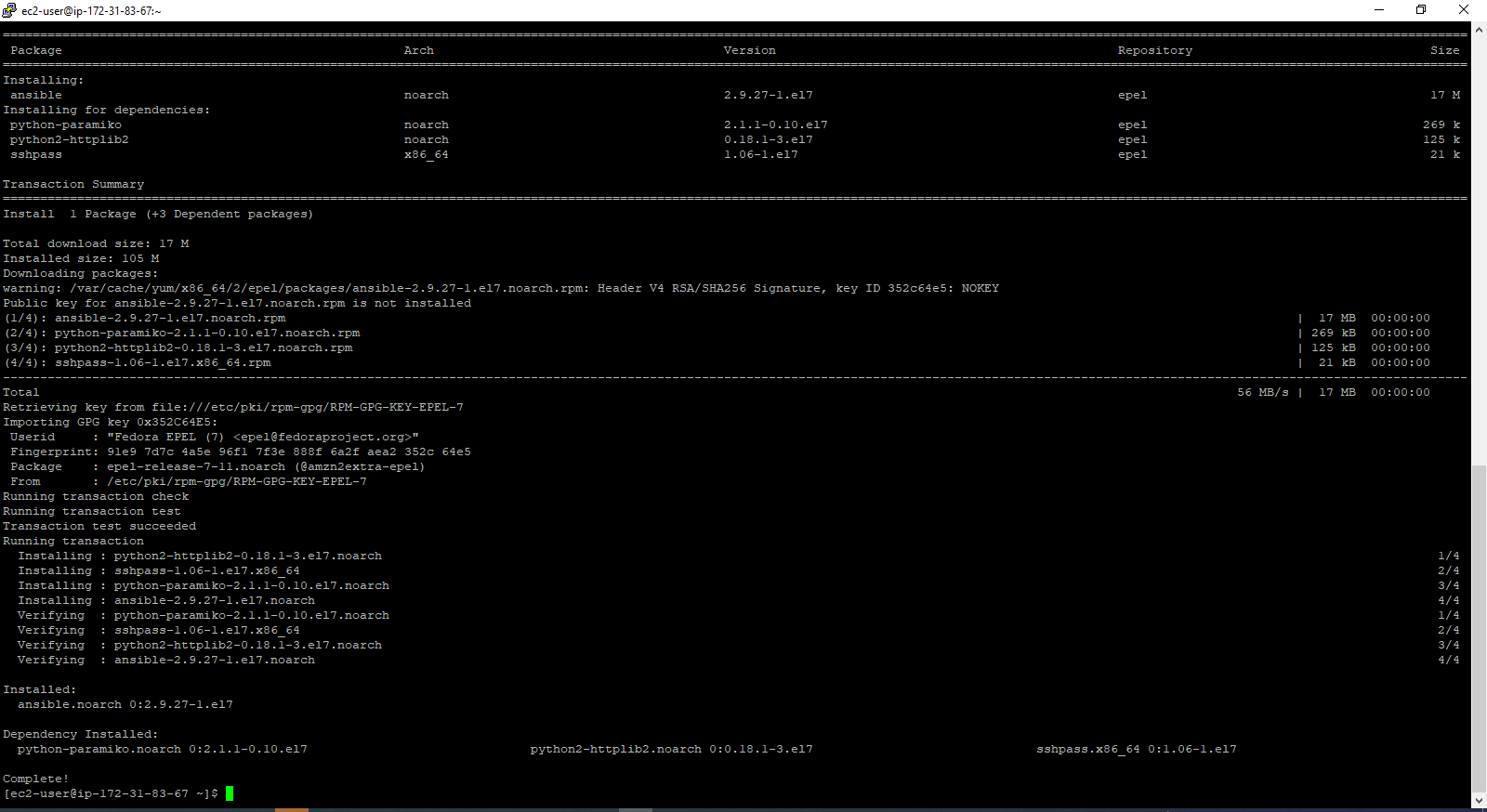
sudo yum update



sudo amazon-linux-extras install epel



sudo yum install ansible -y



ansible –version [checking ansible version]

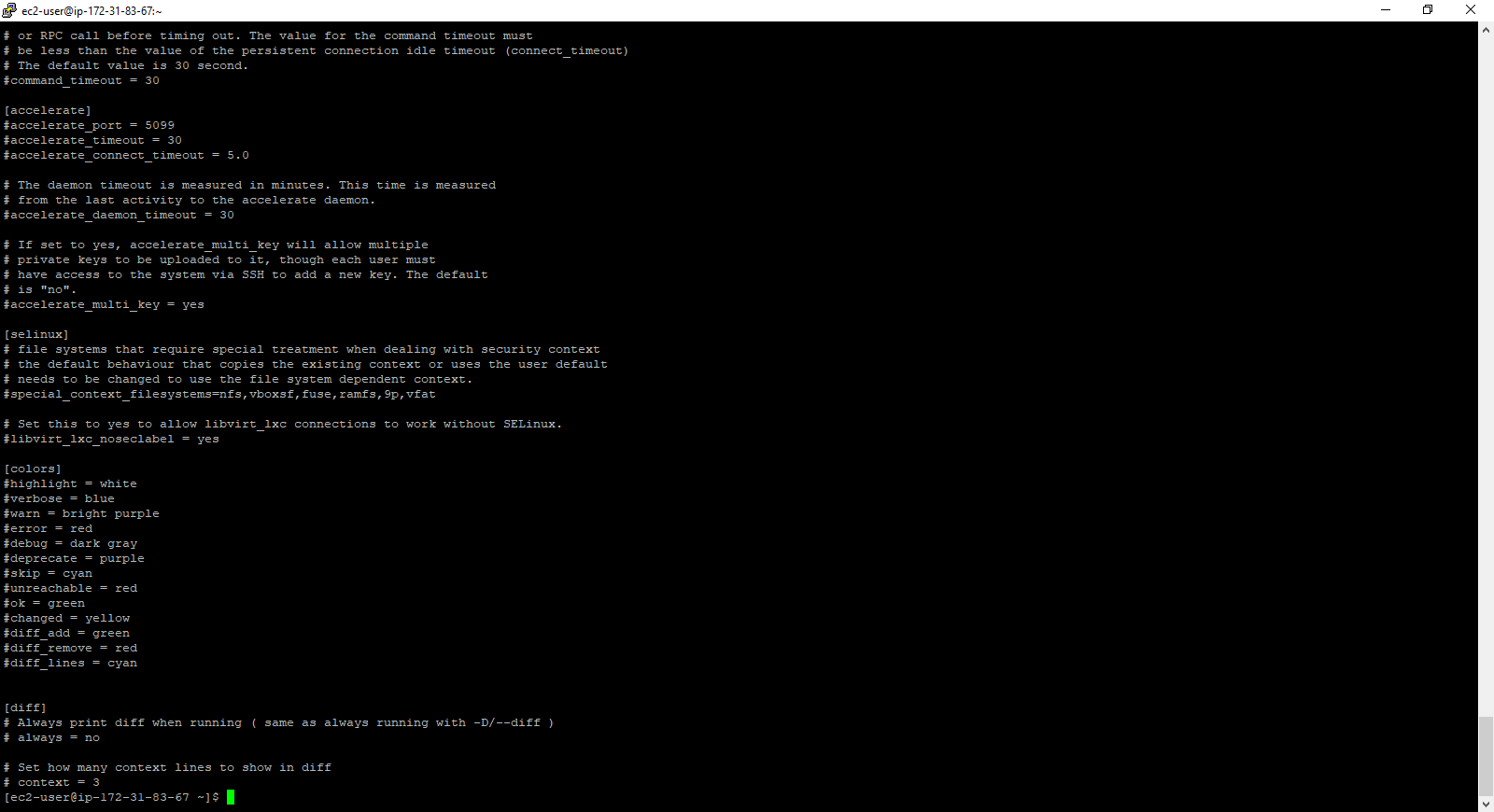
Text

Description automatically generated

Config path file copied - /etc/ansible/ansible.cfg

Viewing the ansible.cfg file:

cat /etc/ansible/ansible.cfg



Installing python:

sudo yum install python -y

A screenshot of a computer

Description automatically generated

Installing openssl:

sudo yum install openssl -y

A screenshot of a computer

Description automatically generated

|  |
| --- |
| **Making SSL connection between Ansible Server and the Node [Node instance should be running].** |
| **In Ansible Server:** |

cd .ssh

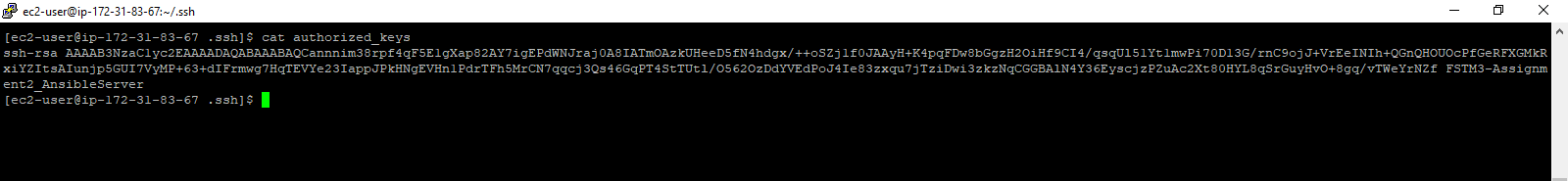
ls

The authorised keys will be displayed.

Text

Description automatically generated

cat authorized\_keys [It will show the contents of authorized\_keys files]



ssh-keygen [to generate the public and the private key files for the ansible server machine]

Text

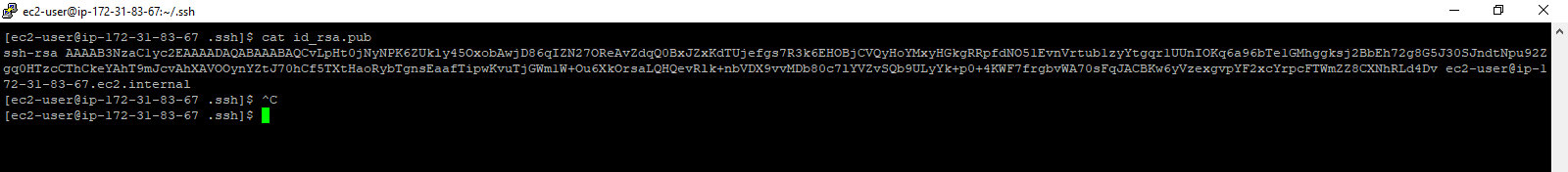
Description automatically generated

ls [id\_rsa.pub file (public key file is generated)]

Text

Description automatically generated

cat id\_rsa.pub [It will show the content of the public key file generated]



Copy the content of the public key file of ansible server and paste in a new file of Notepad.

Graphical user interface, text, application

Description automatically generated

Connect the AnsibleNode1 in browser:

A screenshot of a computer

Description automatically generated

Run the below commands in AnsibleNode1:

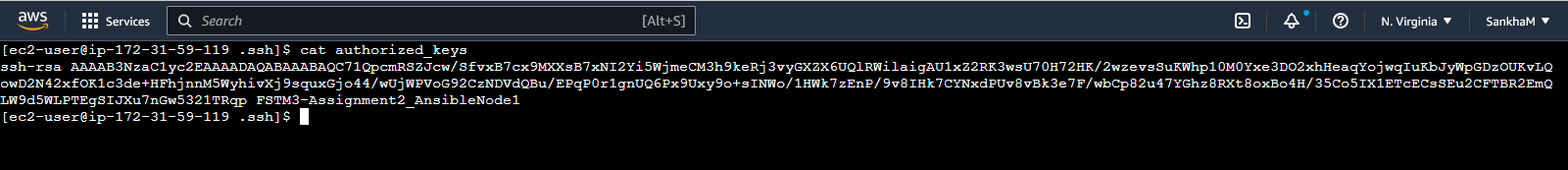
cd .ssh

ls [You will see authorized\_keys]

A screenshot of a computer

Description automatically generated

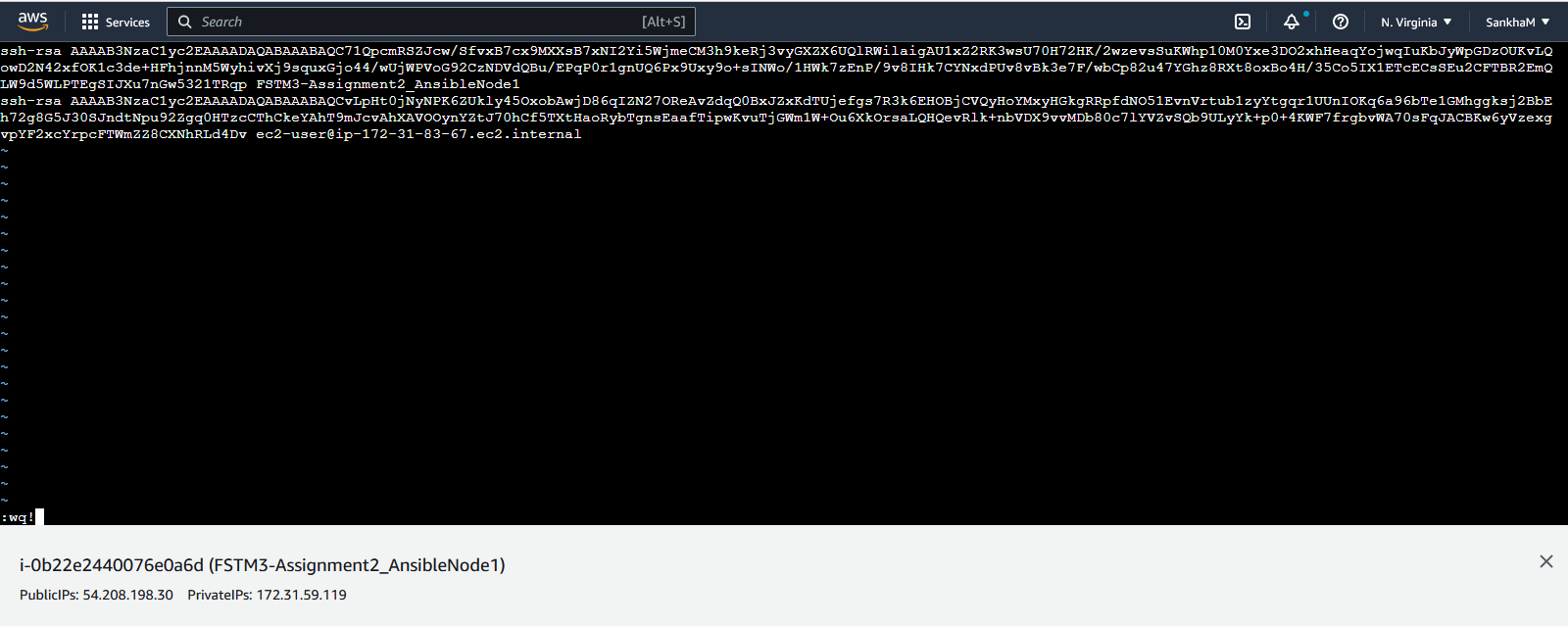
cat authorized\_keys [It will show the contents of authorized\_keys file for the ansible node]



In the AnsibleNode1, open the authorized\_keys file in vi editor:

vi authorized\_keys

Add the copied public key of the ansible server and paste it in the end of the file. Save it with :wq!



In the Ansible Server, run the below commands:

|  |
| --- |
| cd /etc |
| ls -ll |grep ansible |
| cd ansible |
| ls -ll |

Graphical user interface, text

Description automatically generated

Check that the ansible.cfg and hosts.cfg file is available. You can view the content with cat command as well.

Check if the server is reachable to the ansible node:

ssh ec2-user@54.208.198.30 [public ip of Ansible node running].

Text

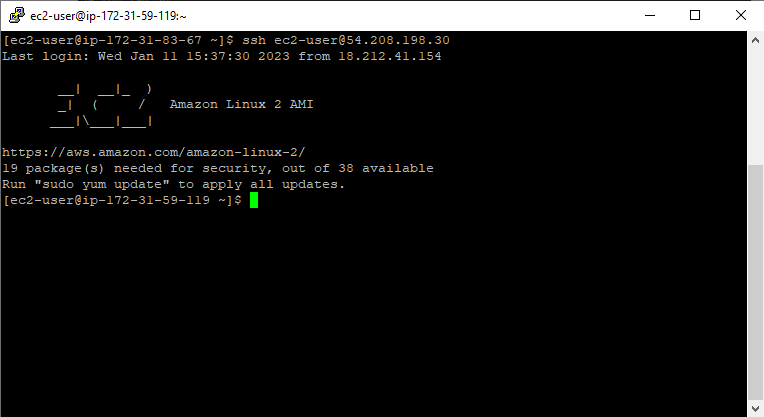
Description automatically generated

vi hosts [open the host file under the ansible folder and add the public iP of the ansible node]

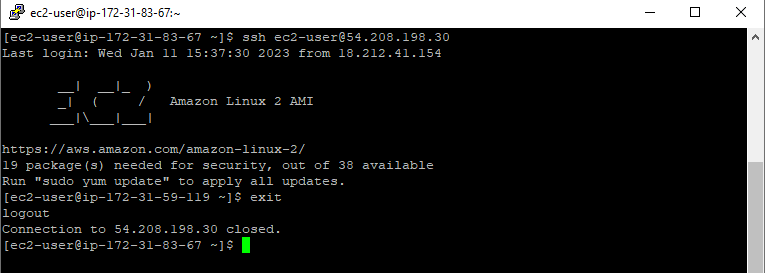
Text

Description automatically generated

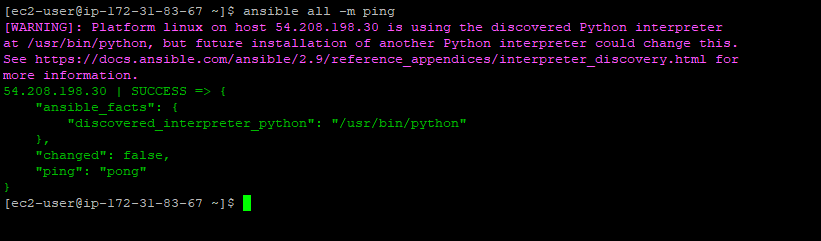
|  |
| --- |
| Open a new session of ansible server and run: |
| ssh ec2-user@54.208.198.30 [ip address of the ansible node] |



exit [to come out of node connection]



ansible all -m ping [ to check the Ansible server connects to ansible node]



**Installing packages in all ansible nodes parallely**

ansible all -m yum -b -a "name=git" [Installing git package in all ansible nodes]

Text

Description automatically generated

ansible all -m yum -b -a "name=httpd state=present" [Installing httpd package in all ansible nodes]

Text

Description automatically generated

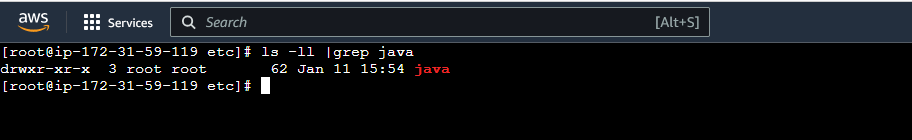
ansible all -b -a "yum install java -y" [Installing java package in all ansible nodes]

Text

Description automatically generated

Connect to AnsibleNode instance and check that the installed packages are available:

Ls -ll |grep java [java folder will be available]



**Uninstalling package from all the Ansible nodes (from Ansible Server)**

ansible all -b -a "yum remove httpd -y" [Uninstalling httpd package from all ansible nodes]

Text

Description automatically generated

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*