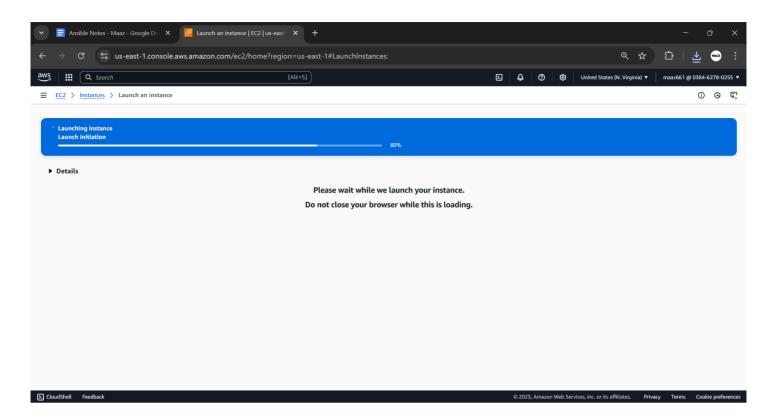
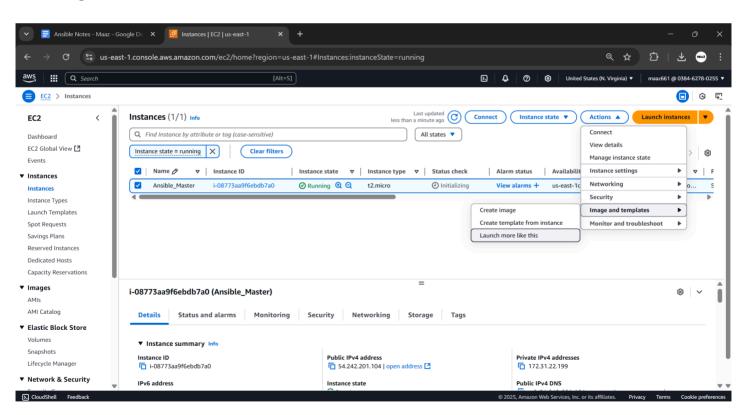
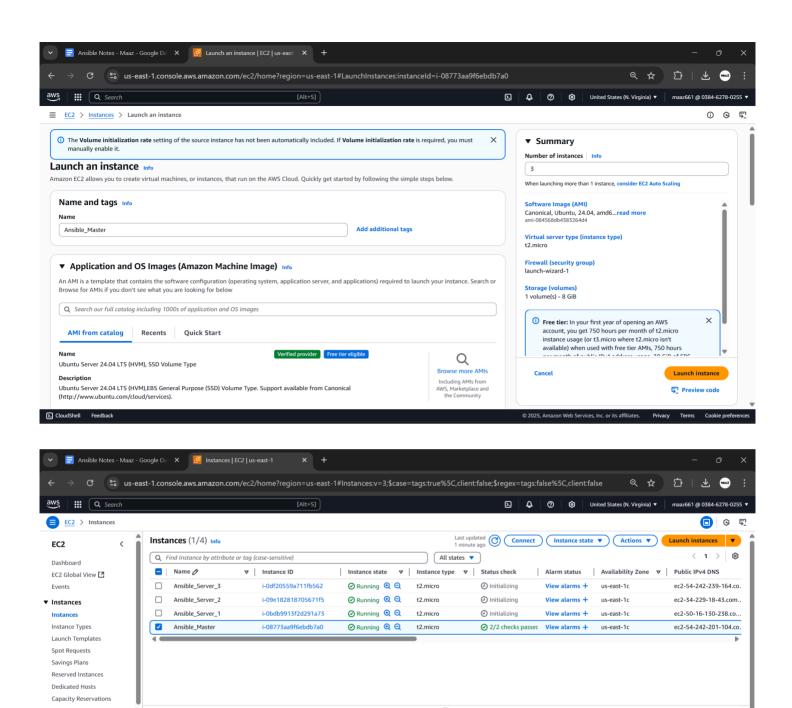
Ansible Server Setup on AWS



Launching Ansible Master and 3 Server nodes





i-08773aa9f6ebdb7a0 (Ansible_Master)

▼ Instance summary Info

Instance ID
i-08773aa9f6ebdb7a0

IPv6 address

AMI Catalog

▼ Elastic Block Store

Volumes

Lifecycle Manager

▼ Network & Security

Details Status and alarms Monitoring Security Networking Storage Tags

Public IPv4 address
54.242.201.104 | open address

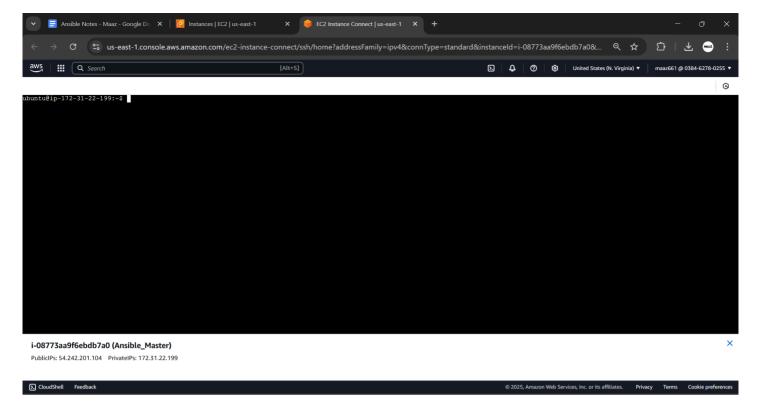
Instance state

Running

Private IPv4 addresses

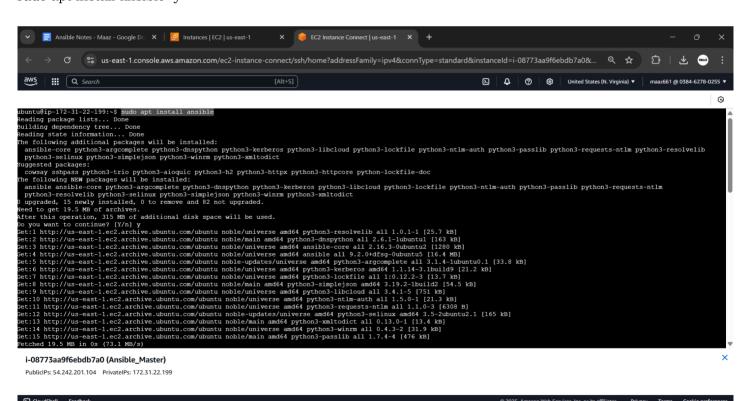
ec2-54-242-201-104.compute-1.amazonaws.com

Public IPv4 DNS



Commands

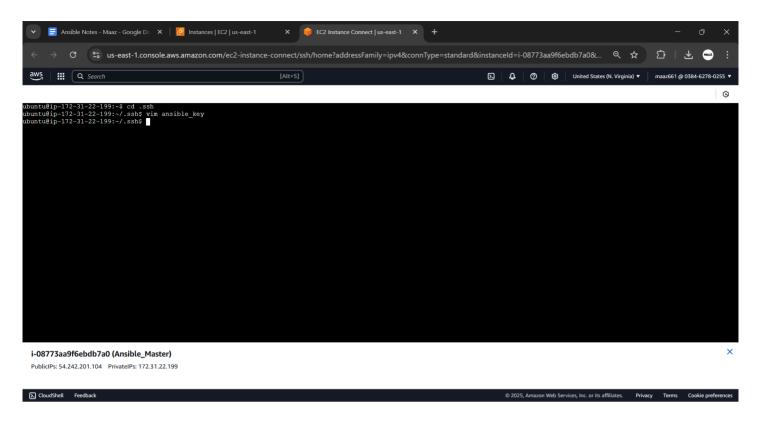
sudo apt update - y sudo apt install ansible -y



cd .ssh

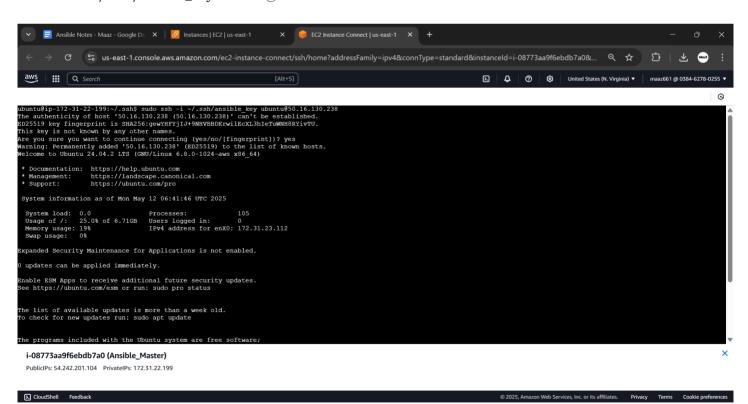
Creating file named Ansible_key and enter the Private key downloaded from AWS.

vim ansible kev

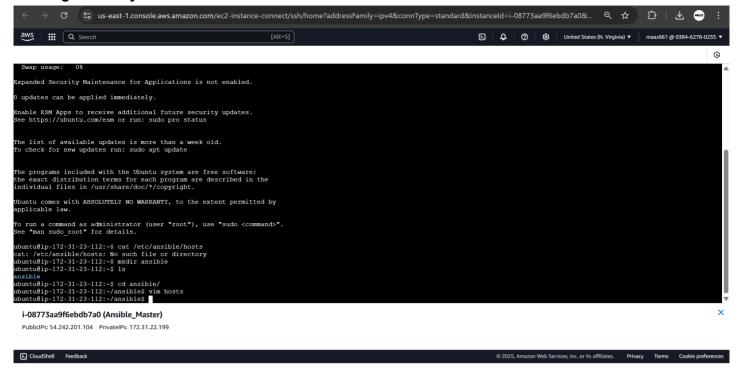


Connecting server 1

sudo ssh -i ~/.ssh/ansible_key ubuntu@50.16.130.238



Creating Inventory File

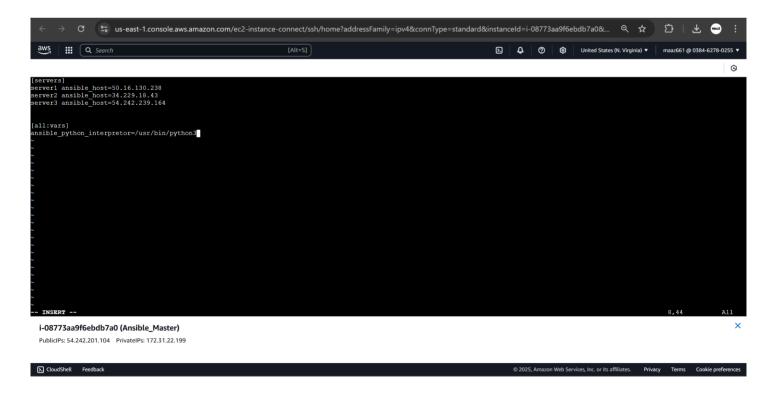


[servers]

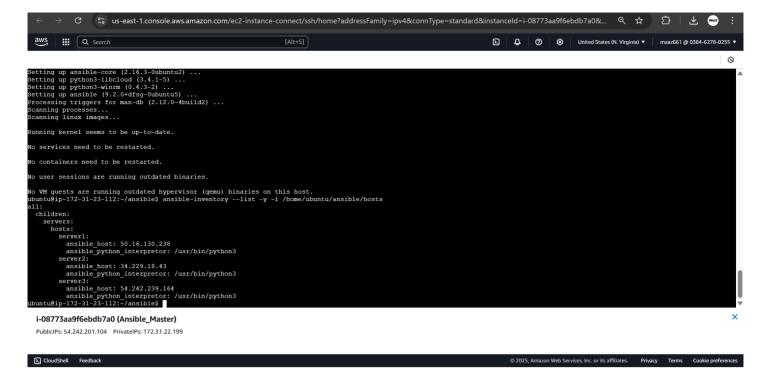
server1 ansible_host=3.83.113.23 server2 ansible_host=52.90.36.160 server3 ansible_host=18.204.203.37

[all:vars]

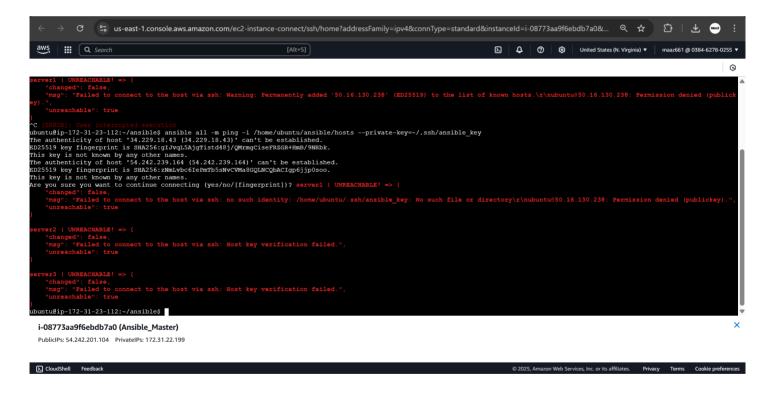
ansible_python_interpretor=/usr/bin/python3



sudo apt install ansible-core ansible-inventory --list -y -i /home/ubuntu/ansible/hosts



ansible all -m ping -i /home/ubuntu/ansible/hosts



Resolving errors

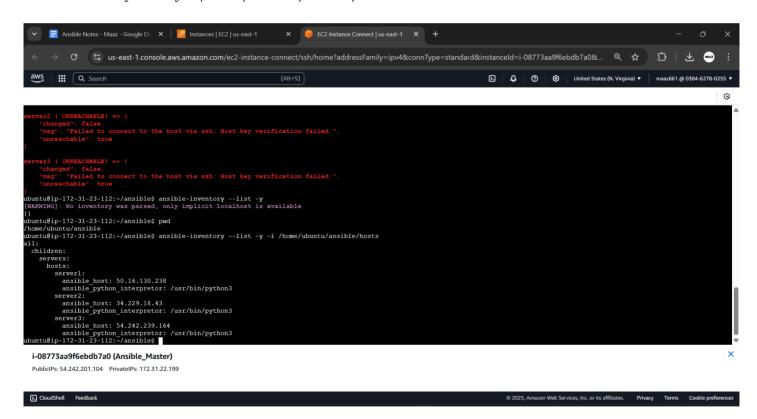
C:\Users\maaz\Downloads\Ansible-key.pem
C:\Users\maaz\Downloads\Ansible-key.pem ubuntu@50.16.130.238:~/.ssh/ansible_key

C:\Users\maaz>ssh -i C:\Users\maaz\Downloads\Ansible-key.pem ubuntu@50.16.130.238

```
C: (Users\mazz\scr -i C:\Users\mazz\scr -i C:\Users
```

Giving file permissions

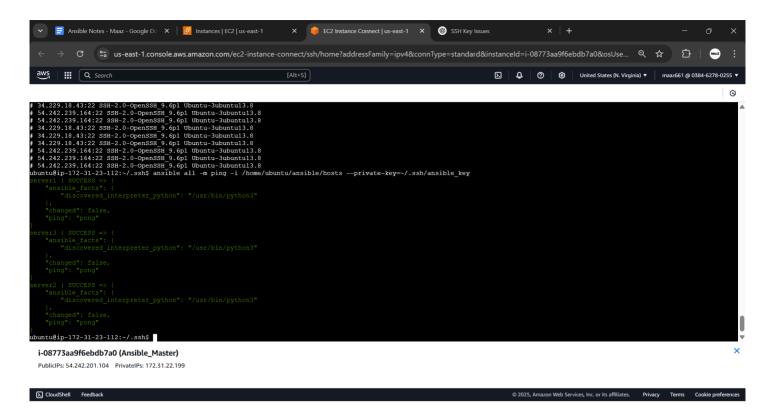
chmod 700 ~/.ssh chmod 600 ~/.ssh/ansible_key ansible all -m ping -i /home/ubuntu/ansible/hosts --private-key=~/.ssh/ansible_key ansible-inventory --list -y -i /home/ubuntu/ansible/hosts



Command used when server 2 and 3 were unable to connect

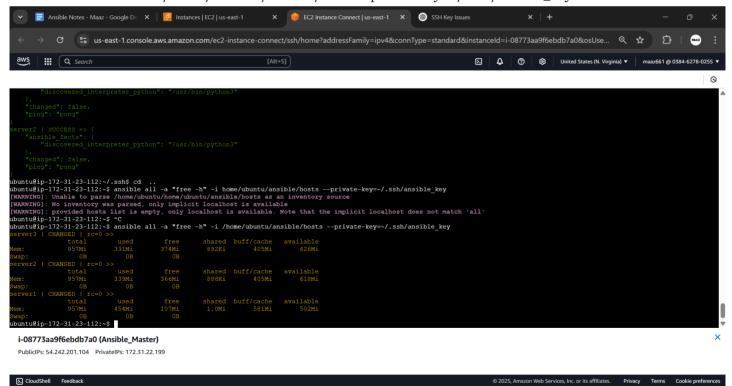
ssh-keyscan -H 34.229.18.43 54.242.239.164 >> ~/.ssh/known_hosts

ansible all -m ping -i /home/ubuntu/ansible/hosts --private-key=~/.ssh/ansible_key



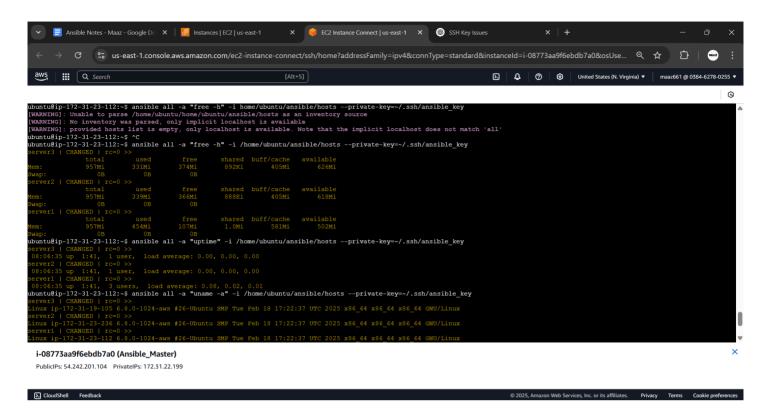
Memory Usage

ansible all -a "free -h" -i /home/ubuntu/ansible/hosts --private-key=~/.ssh/ansible_key



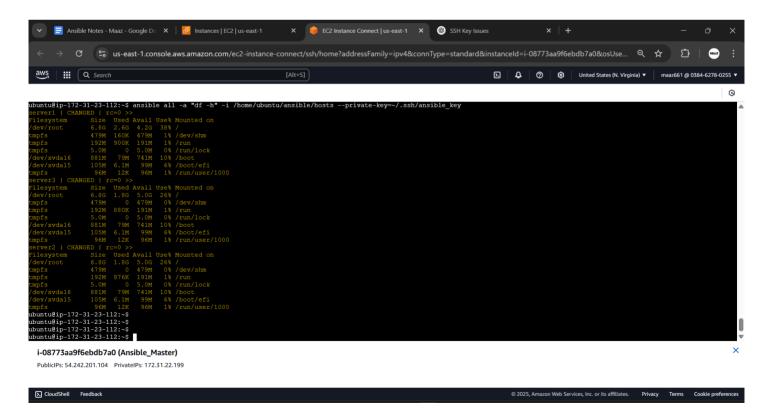
System Uptime & system Information

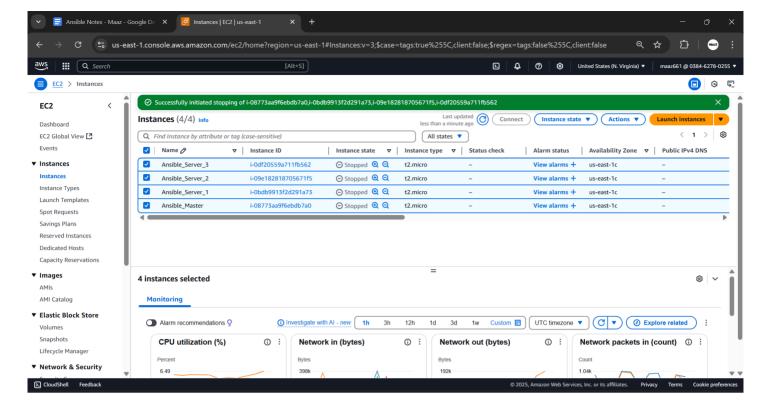
ansible all -a "uptime" -i /home/ubuntu/ansible/hosts --private-key=~/.ssh/ansible_key ansible all -a "uname - a" -i /home/ubuntu/ansible/hosts --private-key=~/.ssh/ansible_key



Disk usage

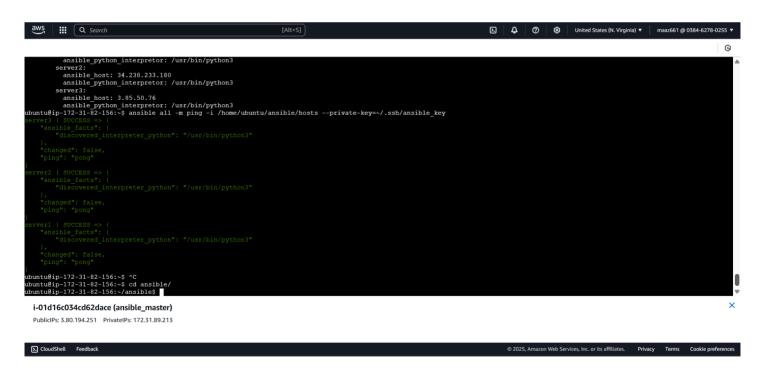
ansible all -a "df -h" -i /home/ubuntu/ansible/hosts --private-key=~/.ssh/ansible_key

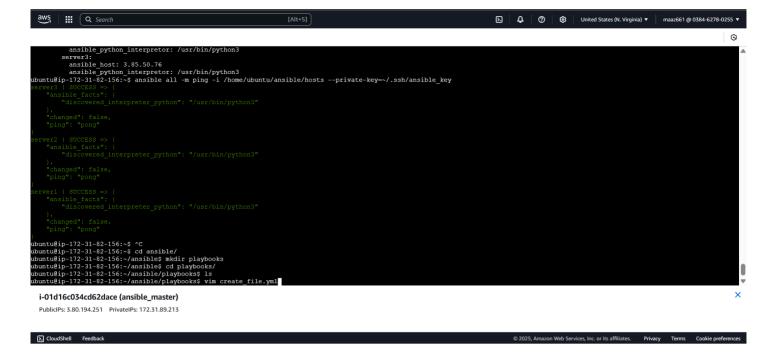




Making Playbooks

ansible-inventory --list -y -i /home/ubuntu/ansible/hosts ansible all -m ping -i /home/ubuntu/ansible/hosts --private-key=~/.ssh/ansible_key





YML file to create a file named "maaz.txt" on all 3 servers

- name: This playbook will create a file

hosts: all become: true

tasks:

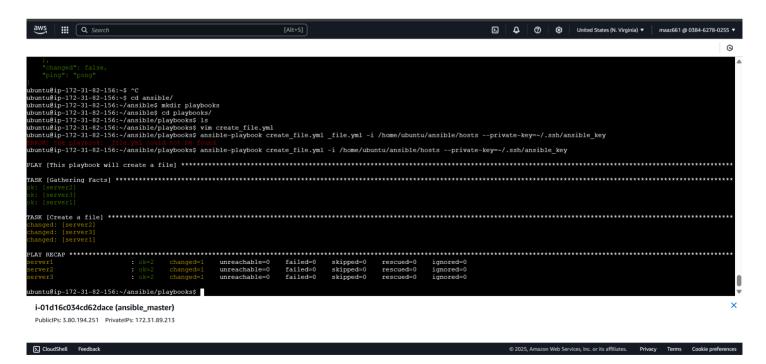
- name: Create a file

file:

path: /home/ubuntu/maaz.txt

state: touch

ansible-playbook create_file.yml -i /home/ubuntu/ansible/hosts --private-key=~/.ssh/ansible_key



Master server:

```
ubuntu@ip-172-31-82-156:~/ansible/playbooks$ ansible-playbook create_file.yml -i /home/ubuntu/ansible/hosts --private-key=~/.ssh/ansible_key

PLAY [This playbook will create a file]

TASK [Gathering Facts]

ok: [server2]

ok: [server3]

ok: [server4]

TASK [Create a file]

changed: [server2]

changed: [server2]

changed: [server3]

changed: [server3]

changed: [server1]

PLAY RECAP

server1 : ok=2 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

server2 : ok=2 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

server3 : ok=2 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

server3 : ok=2 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

server3 : ok=2 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

server3 : ok=2 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

server3 : ok=2 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
```

Testing to see whether file named "maaz.txt" is created or not on server 1,2 & 3

Server 1:

```
ubuntu@ip-172-31-82-156:~$ ls
ansible maaz.txt
ubuntu@ip-172-31-82-156:~$

i-04cb1b6ebb05a37e3 (ansible_server_1)

PublicIPs: 44.212.74.91 PrivateIPs: 172.31.82.156
```

Server 2:

```
i-08a8f3e1a269903a0 (ansible_server_2)

PublicIPs: 34.238.233.180 PrivateIPs: 172.31.83.69
```

Server 3:

```
ubuntu@ip-172-31-85-66:~$ ls
maaz.txt
ubuntu@ip-172-31-85-66:~$
```

i-0a84ed80be587463a (ansible_server_3)

PublicIPs: 3.85.50.76 PrivateIPs: 172.31.85.66