UPES

UNIVERSITY OF TOMORROW

Software Provisioning and Configuration Management

LAB FILE SUBMITTED BY:

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Roll no: R2142221387
BATCH: 1 Devops

Lab Exercise 01

Creating Static Host Inventory

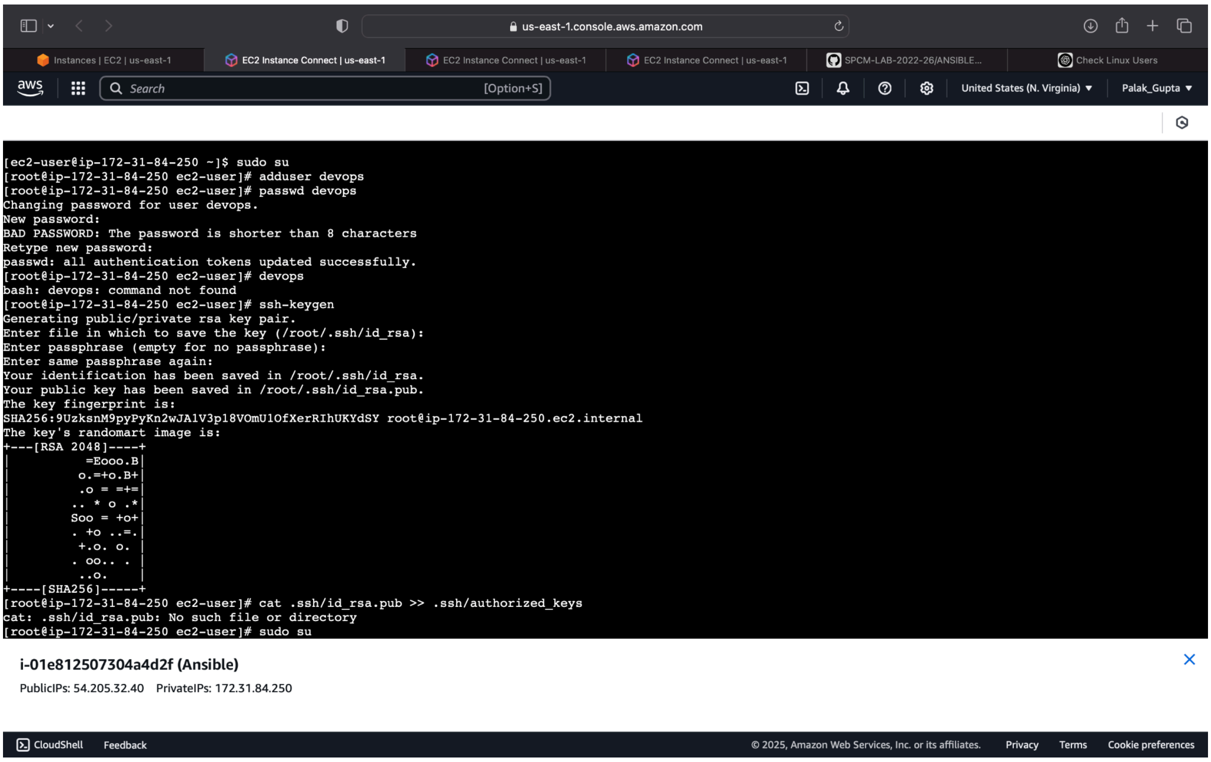
Objective: To create a static host inventory for managing and automating infrastructure tasks efficiently across multiple servers using Ansible

Tools required: Ubuntu OS

Prerequisites: You need to have Ansible installed to proceed with this demo

Steps to be followed:

1. Generate SSH key pair on the main node


us-east-1.console.aws.amazon.com
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
SPCM-LAB-2022-26/ANSIBLE...
Check Linux Users
aws
Search
[Option+S]
United States (N. Virginia)
Palak_Gupta
CloudShell
Feedback
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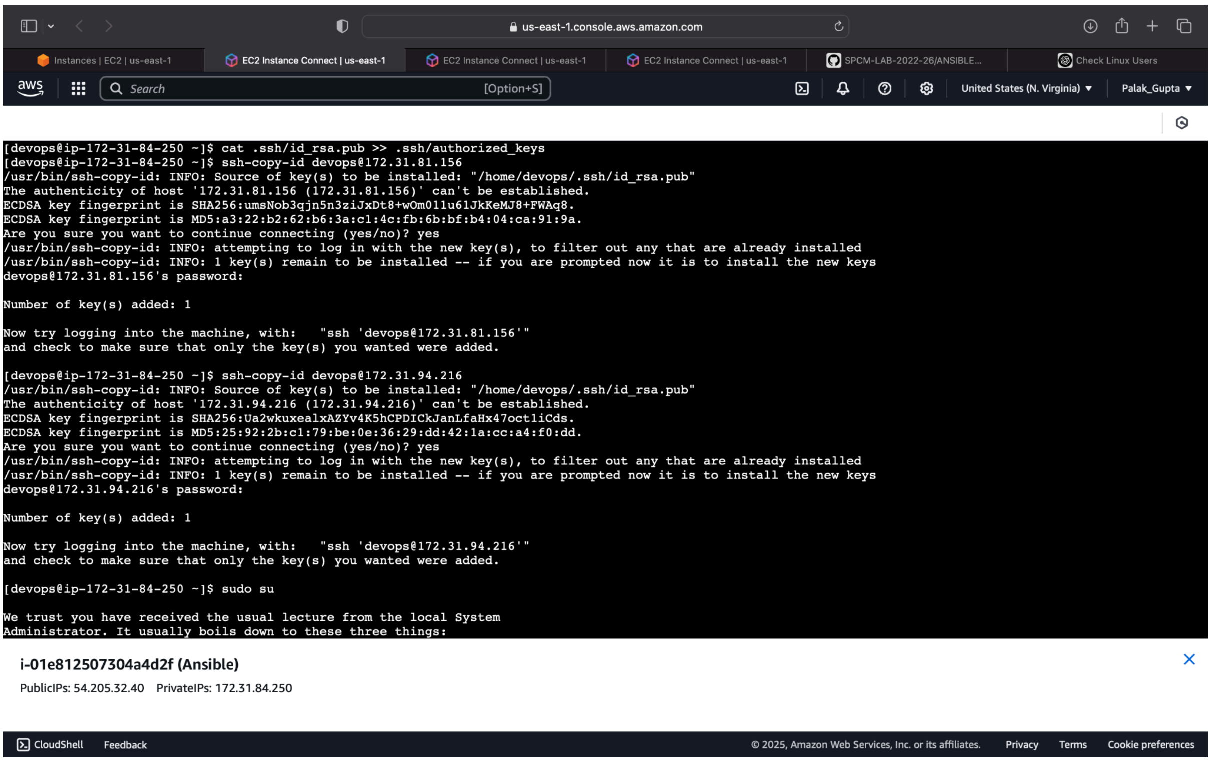
Privacy
Terms
Cookie preferences

```
[ec2-user@ip-172-31-84-250 ~]$ sudo su
[root@ip-172-31-84-250 ec2-user]# adduser devops
[root@ip-172-31-84-250 ec2-user]# passwd devops
Changing password for user devops.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@ip-172-31-84-250 ec2-user]# devops
bash: devops: command not found
[root@ip-172-31-84-250 ec2-user]# ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa.
Your public key has been saved in /root/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:9UzksnM9pyPyKn2wJA1V3p18VOmU1OfXerRIhUKYdSY root@ip-172-31-84-250.ec2.internal
The key's randomart image is:
+---[RSA 2048]----+
|          =Eooo.B|
|         o.=+o.B+|
|         .o = =+=|
|        .. * o .*|
|        Soo = +o+|
|        . +o ..=.|
|         +.o. o. |
|        . oo.. . |
|         ..o.    |
+----[SHA256]-----+
[root@ip-172-31-84-250 ec2-user]# cat .ssh/id_rsa.pub >> .ssh/authorized_keys
cat: .ssh/id_rsa.pub: No such file or directory
[root@ip-172-31-84-250 ec2-user]# sudo su
```

i-01e812507304a4d2f (Ansible)

PublicIPs: 54.205.32.40   PrivateIPs: 172.31.84.250

2. Copy the SSH key to the two other nodes



us-east-1.console.aws.amazon.com
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
SPCM-LAB-2022-26/ANSIBLE...
Check Linux Users
aws
Search
[Option+S]
United States (N. Virginia) ▾
Palak_Gupta ▾

```
[devops@ip-172-31-84-250 ~]$ cat .ssh/id_rsa.pub >> .ssh/authorized_keys
[devops@ip-172-31-84-250 ~]$ ssh-copy-id devops@172.31.81.156
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/devops/.ssh/id_rsa.pub"
The authenticity of host '172.31.81.156 (172.31.81.156)' can't be established.
ECDSA key fingerprint is SHA256:umsNob3qjn5n3ziJxDt8+wOm011u61JkKeMJ8+FWAq8.
ECDSA key fingerprint is MD5:a3:22:b2:62:b6:3a:c1:4c:fb:6b:bf:b4:04:ca:91:9a.
Are you sure you want to continue connecting (yes/no)? yes
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
devops@172.31.81.156's password:

Number of key(s) added: 1

Now try logging into the machine, with:   "ssh 'devops@172.31.81.156'"
and check to make sure that only the key(s) you wanted were added.

[devops@ip-172-31-84-250 ~]$ ssh-copy-id devops@172.31.94.216
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/devops/.ssh/id_rsa.pub"
The authenticity of host '172.31.94.216 (172.31.94.216)' can't be established.
ECDSA key fingerprint is SHA256:Ua2wkuxealxAZYv4K5hCPDICkJanLfaHx47oct1iCds.
ECDSA key fingerprint is MD5:25:92:2b:c1:79:be:0e:36:29:dd:42:1a:cc:a4:f0:dd.
Are you sure you want to continue connecting (yes/no)? yes
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
devops@172.31.94.216's password:

Number of key(s) added: 1

Now try logging into the machine, with:   "ssh 'devops@172.31.94.216'"
and check to make sure that only the key(s) you wanted were added.

[devops@ip-172-31-84-250 ~]$ sudo su

We trust you have received the usual lecture from the local System
Administrator. It usually boils down to these three things:
```

i-01e812507304a4d2f (Ansible)

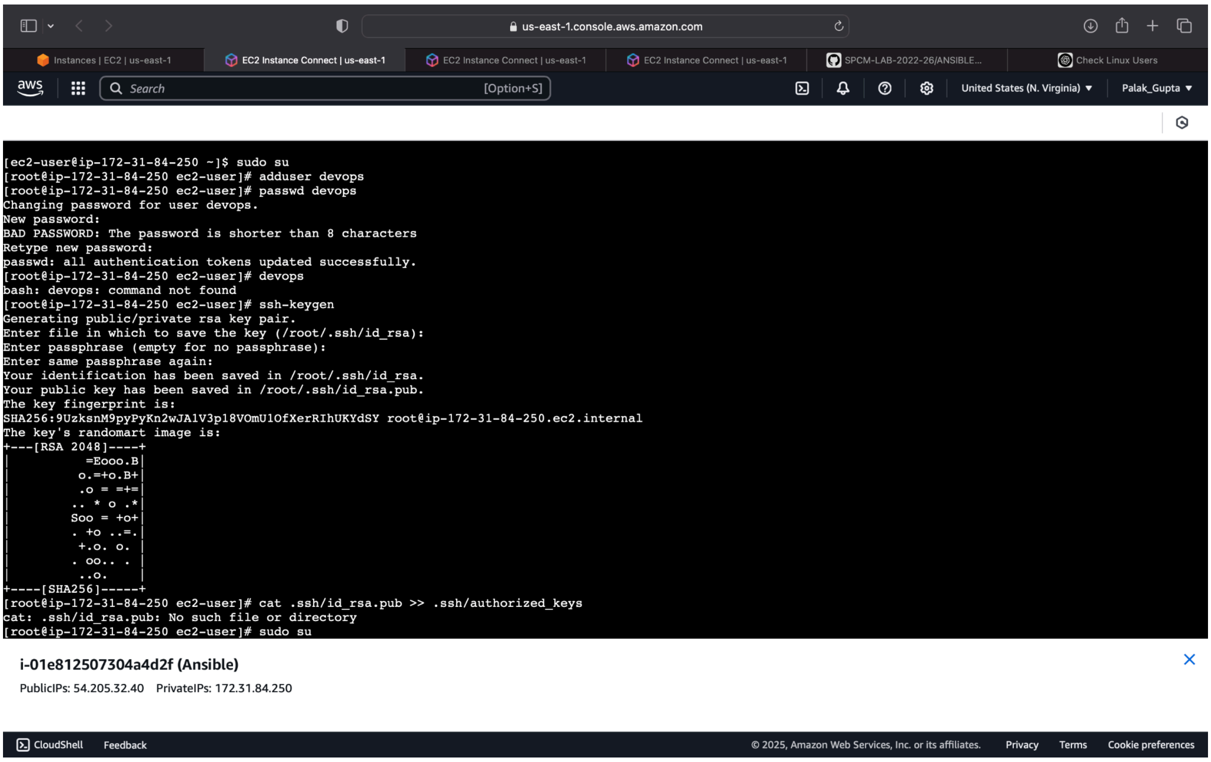
PublicIPs: 54.205.32.40 PrivateIPs: 172.31.84.250

3. Update the inventory or host file with the host IP address
4. Establish connectivity between the hosts specified in the host file and the Ansible server

Step 1: Generate SSH key pair on the main node

1.1 Use the following command to generate the SSH key on the Ansible server:

ssh-keygen



us-east-1.console.aws.amazon.com
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
SPCM-LAB-2022-26/ANSIBLE...
Check Linux Users
Search
[Option+S]
United States (N. Virginia)
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```
[ec2-user@ip-172-31-84-250 ~]$ sudo su
[root@ip-172-31-84-250 ec2-user]# adduser devops
[root@ip-172-31-84-250 ec2-user]# passwd devops
Changing password for user devops.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[root@ip-172-31-84-250 ec2-user]# devops
bash: devops: command not found
[root@ip-172-31-84-250 ec2-user]# ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa.
Your public key has been saved in /root/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:9UzksnM9pyPyKn2wJA1V3p18VOmU1OfXerRIhUKYdSY root@ip-172-31-84-250.ec2.internal
The key's randomart image is:
+---[RSA 2048]----+
|          =Eooo.B|
|         o.=+o.B+|
|          .o = =+=|
|        .. * o .*|
|        Soo = +o+|
|         . +o ..=.|
|          +.o. o. |
|         . oo.. . |
|          ..o.    |
+----[SHA256]-----+
[root@ip-172-31-84-250 ec2-user]# cat .ssh/id_rsa.pub >> .ssh/authorized_keys
cat: .ssh/id_rsa.pub: No such file or directory
[root@ip-172-31-84-250 ec2-user]# sudo su
```

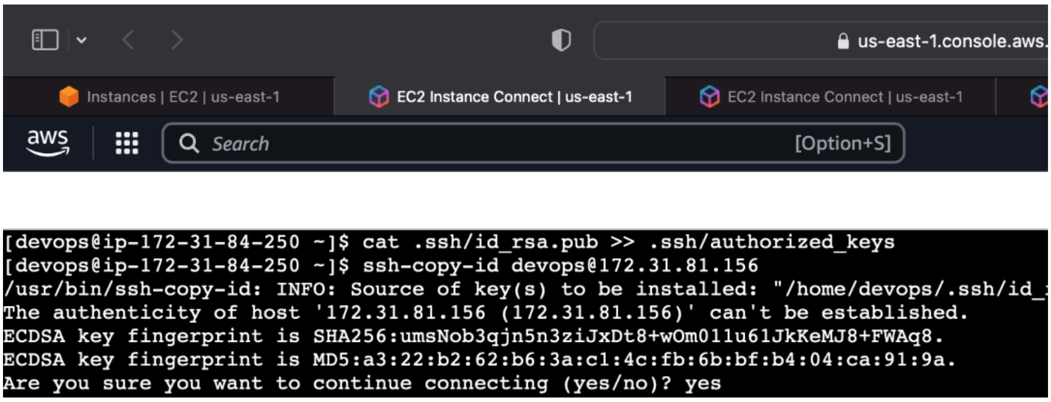
i-01e812507304a4d2f (Ansible)

PublicIPs: 54.205.32.40 PrivateIPs: 172.31.84.250

Step 2: Copy the SSH key to the other two nodes

2.1 Use the following command to copy the public key to a file named **authorized_keys** in localhost:

cat .ssh/id_rsa.pub >> .ssh/authorized_keys



us-east-1.console.aws.
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
Search
[Option+S]

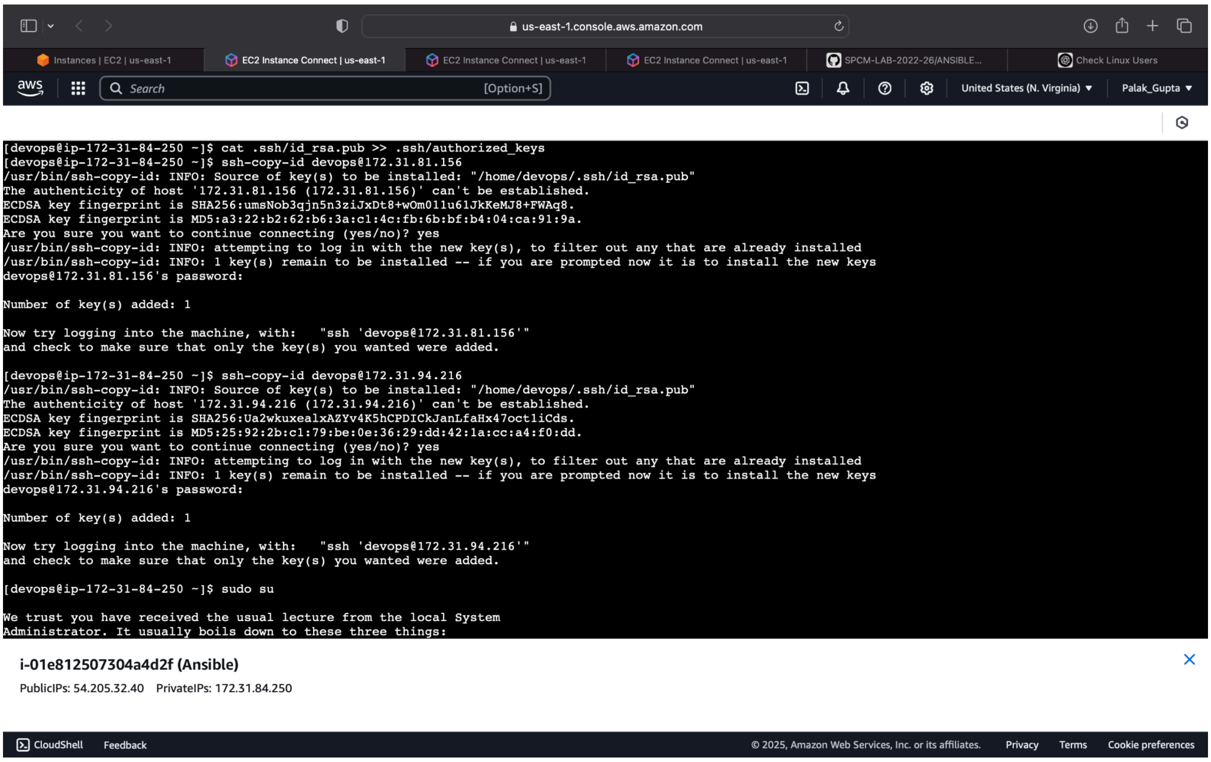
```
[devops@ip-172-31-84-250 ~]$ cat .ssh/id_rsa.pub >> .ssh/authorized_keys
[devops@ip-172-31-84-250 ~]$ ssh-copy-id devops@172.31.81.156
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/devops/.ssh/id_
The authenticity of host '172.31.81.156 (172.31.81.156)' can't be established.
ECDSA key fingerprint is SHA256:umsNob3qjn5n3ziJxDt8+wOm011u61JkKeMJ8+FWAq8.
ECDSA key fingerprint is MD5:a3:22:b2:62:b6:3a:c1:4c:fb:6b:bf:b4:04:ca:91:9a.
Are you sure you want to continue connecting (yes/no)? yes
```

2.2 Run the following command to go to the **.ssh** directory of the Ansible server:

cd .ssh

2.3 Run the following command to copy the public key to another node that will connect to the Ansible server:

ssh-copy-id username@ip -p 22



us-east-1.console.aws.amazon.com
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
SPCM-LAB-2022-26/ANSIBLE...
Check Linux Users
aws
Search
[Option+S]
United States (N. Virginia) ▾
Palak_Gupta ▾

```
[devops@ip-172-31-84-250 ~]$ cat .ssh/id_rsa.pub >> .ssh/authorized_keys
[devops@ip-172-31-84-250 ~]$ ssh-copy-id devops@172.31.81.156
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/devops/.ssh/id_rsa.pub"
The authenticity of host '172.31.81.156 (172.31.81.156)' can't be established.
ECDSA key fingerprint is SHA256:umsNob3qjn5n3ziJxDt8+wOm011u61JkKeMJ8+FWAq8.
ECDSA key fingerprint is MD5:a3:22:b2:62:b6:3a:c1:4c:fb:6b:bf:b4:04:ca:91:9a.
Are you sure you want to continue connecting (yes/no)? yes
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
devops@172.31.81.156's password:

Number of key(s) added: 1

Now try logging into the machine, with:   "ssh 'devops@172.31.81.156'"
and check to make sure that only the key(s) you wanted were added.

[devops@ip-172-31-84-250 ~]$ ssh-copy-id devops@172.31.94.216
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/devops/.ssh/id_rsa.pub"
The authenticity of host '172.31.94.216 (172.31.94.216)' can't be established.
ECDSA key fingerprint is SHA256:Ua2wkuxealxAZYv4K5hCPDICkJanLfaHx47oct1iCds.
ECDSA key fingerprint is MD5:25:92:2b:c1:79:be:0e:36:29:dd:42:1a:cc:a4:f0:dd.
Are you sure you want to continue connecting (yes/no)? yes
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
devops@172.31.94.216's password:

Number of key(s) added: 1

Now try logging into the machine, with:   "ssh 'devops@172.31.94.216'"
and check to make sure that only the key(s) you wanted were added.

[devops@ip-172-31-84-250 ~]$ sudo su

We trust you have received the usual lecture from the local System
Administrator. It usually boils down to these three things:
```

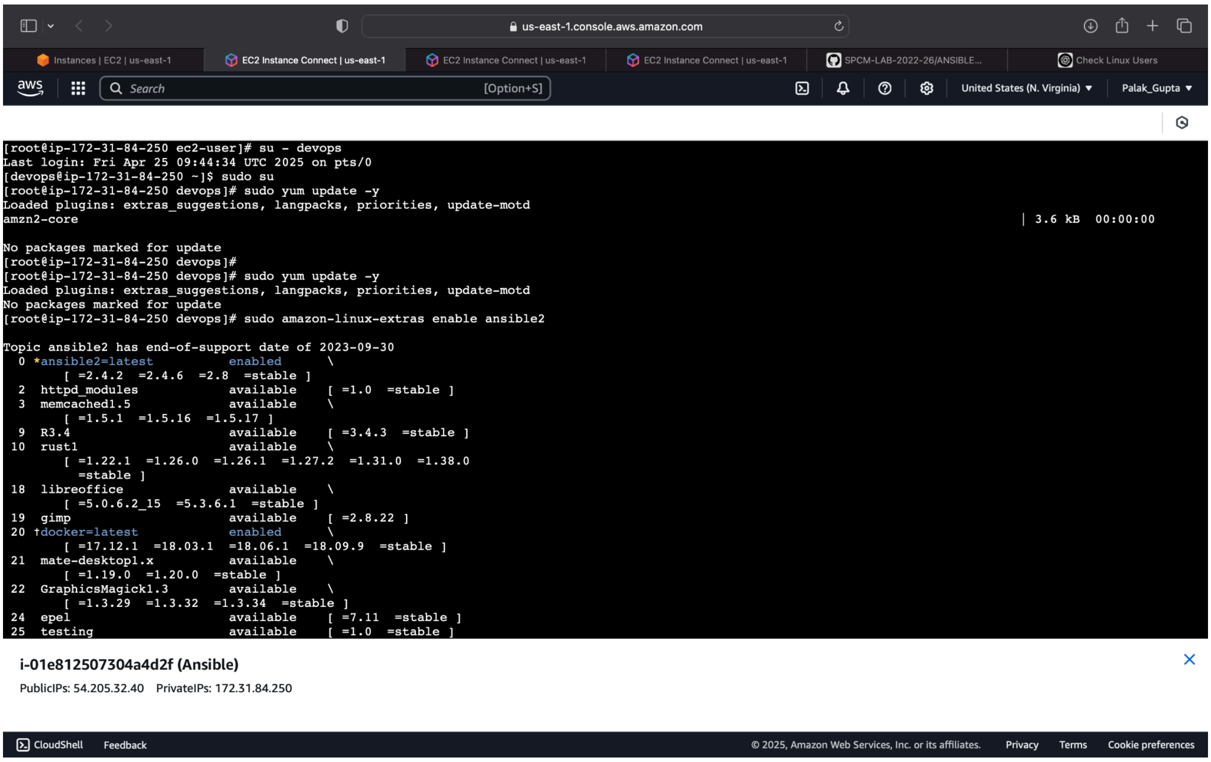
i-01e812507304a4d2f (Ansible)

PublicIPs: 54.205.32.40   PrivateIPs: 172.31.84.250

Note: You must use a **username@ip** with your node and IP username, which are provided in the lab credential.

2.4 Execute the following command to exit the **.ssh** directory of the Ansible server:

cd



us-east-1.console.aws.amazon.com
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
SPCM-LAB-2022-26/ANSIBLE...
Check Linux Users
Search
[Option+S]
United States (N. Virginia) ▾
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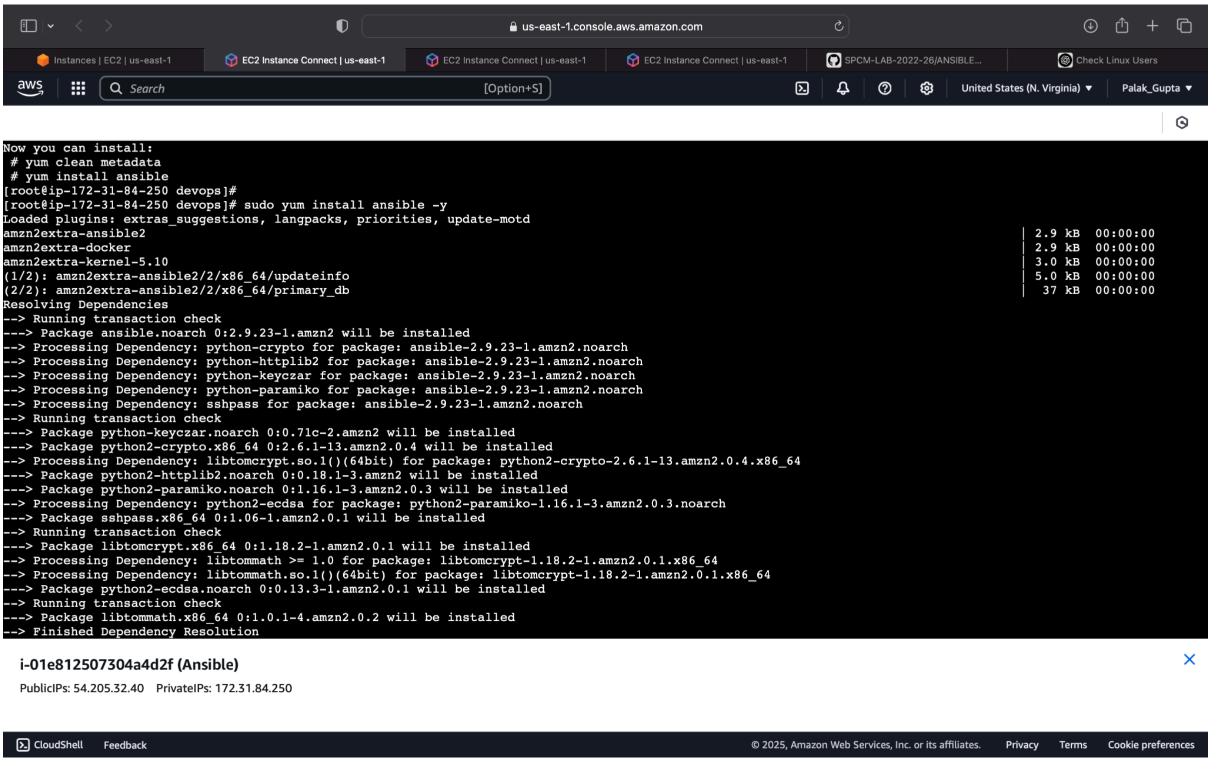
```
[root@ip-172-31-84-250 ec2-user]# su - devops
Last login: Fri Apr 25 09:44:34 UTC 2025 on pts/0
[devops@ip-172-31-84-250 ~]$ sudo su
[root@ip-172-31-84-250 devops]# sudo yum update -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core                                                                                          | 3.6 kB  00:00:00

No packages marked for update
[root@ip-172-31-84-250 devops]#
[root@ip-172-31-84-250 devops]# sudo yum update -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
No packages marked for update
[root@ip-172-31-84-250 devops]# sudo amazon-linux-extras enable ansible2

Topic ansible2 has end-of-support date of 2023-09-30
  0 *ansible2=latest          enabled      \
        [ =2.4.2  =2.4.6  =2.8  =stable ]
  2  httpd_modules            available    [ =1.0  =stable ]
  3  memcached1.5             available    \
        [ =1.5.1  =1.5.16  =1.5.17 ]
  9  R3.4                     available    [ =3.4.3  =stable ]
 10  rust1                    available    \
        [ =1.22.1  =1.26.0  =1.26.1  =1.27.2  =1.31.0  =1.38.0
          =stable ]
 18  libreoffice              available    \
        [ =5.0.6.2_15  =5.3.6.1  =stable ]
 19  gimp                     available    [ =2.8.22 ]
 20 †docker=latest            enabled      \
        [ =17.12.1  =18.03.1  =18.06.1  =18.09.9  =stable ]
 21  mate-desktop1.x          available    \
        [ =1.19.0  =1.20.0  =stable ]
 22  GraphicsMagick1.3        available    \
        [ =1.3.29  =1.3.32  =1.3.34  =stable ]
 24  epel                     available    [ =7.11  =stable ]
 25  testing                  available    [ =1.0  =stable ]
```

i-01e812507304a4d2f (Ansible)

PublicIPs: 54.205.32.40   PrivateIPs: 172.31.84.250



us-east-1.console.aws.amazon.com
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
SPCM-LAB-2022-26/ANSIBLE...
Check Linux Users
Search
[Option+S]
United States (N. Virginia) ▾
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CloudShell
Feedback
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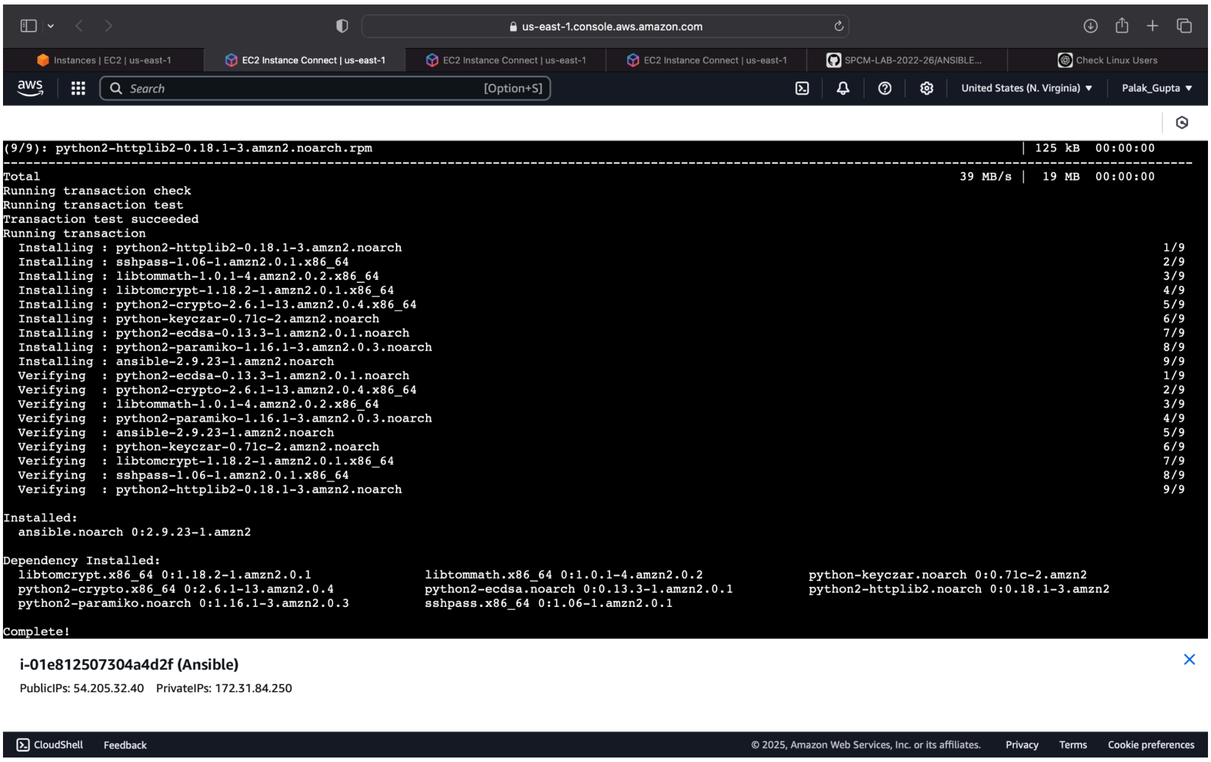
```
Now you can install:
 # yum clean metadata
 # yum install ansible
[root@ip-172-31-84-250 devops]#
[root@ip-172-31-84-250 devops]# sudo yum install ansible -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2extra-ansible2                                                                                 | 2.9 kB  00:00:00
amzn2extra-docker                                                                                   | 2.9 kB  00:00:00
amzn2extra-kernel-5.10                                                                              | 3.0 kB  00:00:00
(1/2): amzn2extra-ansible2/2/x86_64/updateinfo                                                      | 5.0 kB  00:00:00
(2/2): amzn2extra-ansible2/2/x86_64/primary_db                                                      |  37 kB  00:00:00
Resolving Dependencies
--> Running transaction check
---> Package ansible.noarch 0:2.9.23-1.amzn2 will be installed
--> Processing Dependency: python-crypto for package: ansible-2.9.23-1.amzn2.noarch
--> Processing Dependency: python-httplib2 for package: ansible-2.9.23-1.amzn2.noarch
--> Processing Dependency: python-keyczar for package: ansible-2.9.23-1.amzn2.noarch
--> Processing Dependency: python-paramiko for package: ansible-2.9.23-1.amzn2.noarch
--> Processing Dependency: sshpass for package: ansible-2.9.23-1.amzn2.noarch
--> Running transaction check
---> Package python-keyczar.noarch 0:0.71c-2.amzn2 will be installed
---> Package python2-crypto.x86_64 0:2.6.1-13.amzn2.0.4 will be installed
--> Processing Dependency: libtomcrypt.so.1()(64bit) for package: python2-crypto-2.6.1-13.amzn2.0.4.x86_64
---> Package python2-httplib2.noarch 0:0.18.1-3.amzn2 will be installed
---> Package python2-paramiko.noarch 0:1.16.1-3.amzn2.0.3 will be installed
--> Processing Dependency: python2-ecdsa for package: python2-paramiko-1.16.1-3.amzn2.0.3.noarch
---> Package sshpass.x86_64 0:1.06-1.amzn2.0.1 will be installed
--> Running transaction check
---> Package libtomcrypt.x86_64 0:1.18.2-1.amzn2.0.1 will be installed
--> Processing Dependency: libtommath >= 1.0 for package: libtomcrypt-1.18.2-1.amzn2.0.1.x86_64
--> Processing Dependency: libtommath.so.1()(64bit) for package: libtomcrypt-1.18.2-1.amzn2.0.1.x86_64
---> Package python2-ecdsa.noarch 0:0.13.3-1.amzn2.0.1 will be installed
--> Running transaction check
---> Package libtommath.x86_64 0:1.0.1-4.amzn2.0.2 will be installed
--> Finished Dependency Resolution
```

i-01e812507304a4d2f (Ansible)

PublicIPs: 54.205.32.40   PrivateIPs: 172.31.84.250



us-east-1.console.aws.amazon.com
Instances | EC2 | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
SPCM-LAB-2022-26/ANSIBLE...
Check Linux Users
aws
Search
[Option+S]
United States (N. Virginia) ▼
Palak_Gupta ▼

```
(9/9): python2-httplib2-0.18.1-3.amzn2.noarch.rpm                                                             | 125 kB  00:00:00
-------------------------------------------------------------------------------------------------------------------------------------
Total                                                                                                39 MB/s |  19 MB  00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : python2-httplib2-0.18.1-3.amzn2.noarch                                                                           1/9
  Installing : sshpass-1.06-1.amzn2.0.1.x86_64                                                                                  2/9
  Installing : libtommath-1.0.1-4.amzn2.0.2.x86_64                                                                              3/9
  Installing : libtomcrypt-1.18.2-1.amzn2.0.1.x86_64                                                                            4/9
  Installing : python2-crypto-2.6.1-13.amzn2.0.4.x86_64                                                                         5/9
  Installing : python-keyczar-0.71c-2.amzn2.noarch                                                                              6/9
  Installing : python2-ecdsa-0.13.3-1.amzn2.0.1.noarch                                                                          7/9
  Installing : python2-paramiko-1.16.1-3.amzn2.0.3.noarch                                                                       8/9
  Installing : ansible-2.9.23-1.amzn2.noarch                                                                                    9/9
  Verifying  : python2-ecdsa-0.13.3-1.amzn2.0.1.noarch                                                                          1/9
  Verifying  : python2-crypto-2.6.1-13.amzn2.0.4.x86_64                                                                         2/9
  Verifying  : libtommath-1.0.1-4.amzn2.0.2.x86_64                                                                              3/9
  Verifying  : python2-paramiko-1.16.1-3.amzn2.0.3.noarch                                                                       4/9
  Verifying  : ansible-2.9.23-1.amzn2.noarch                                                                                    5/9
  Verifying  : python-keyczar-0.71c-2.amzn2.noarch                                                                              6/9
  Verifying  : libtomcrypt-1.18.2-1.amzn2.0.1.x86_64                                                                            7/9
  Verifying  : sshpass-1.06-1.amzn2.0.1.x86_64                                                                                  8/9
  Verifying  : python2-httplib2-0.18.1-3.amzn2.noarch                                                                           9/9

Installed:
  ansible.noarch 0:2.9.23-1.amzn2

Dependency Installed:
  libtomcrypt.x86_64 0:1.18.2-1.amzn2.0.1            libtommath.x86_64 0:1.0.1-4.amzn2.0.2            python-keyczar.noarch 0:0.71c-2.amzn2
  python2-crypto.x86_64 0:2.6.1-13.amzn2.0.4         python2-ecdsa.noarch 0:0.13.3-1.amzn2.0.1        python2-httplib2.noarch 0:0.18.1-3.amzn2
  python2-paramiko.noarch 0:1.16.1-3.amzn2.0.3       sshpass.x86_64 0:1.06-1.amzn2.0.1

Complete!
```

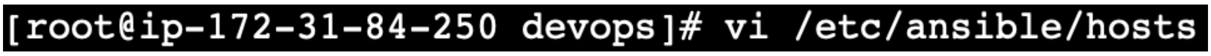
i-01e812507304a4d2f (Ansible)

PublicIPs: 54.205.32.40 PrivateIPs: 172.31.84.250

Step 3: Update the inventory or host file with the host IP address

3.1 Use the following command to open the Ansible inventory file and add the host localhost to it:

sudo vi /etc/ansible/hosts



```
[root@ip-172-31-84-250 devops]# vi /etc/ansible/hosts
```

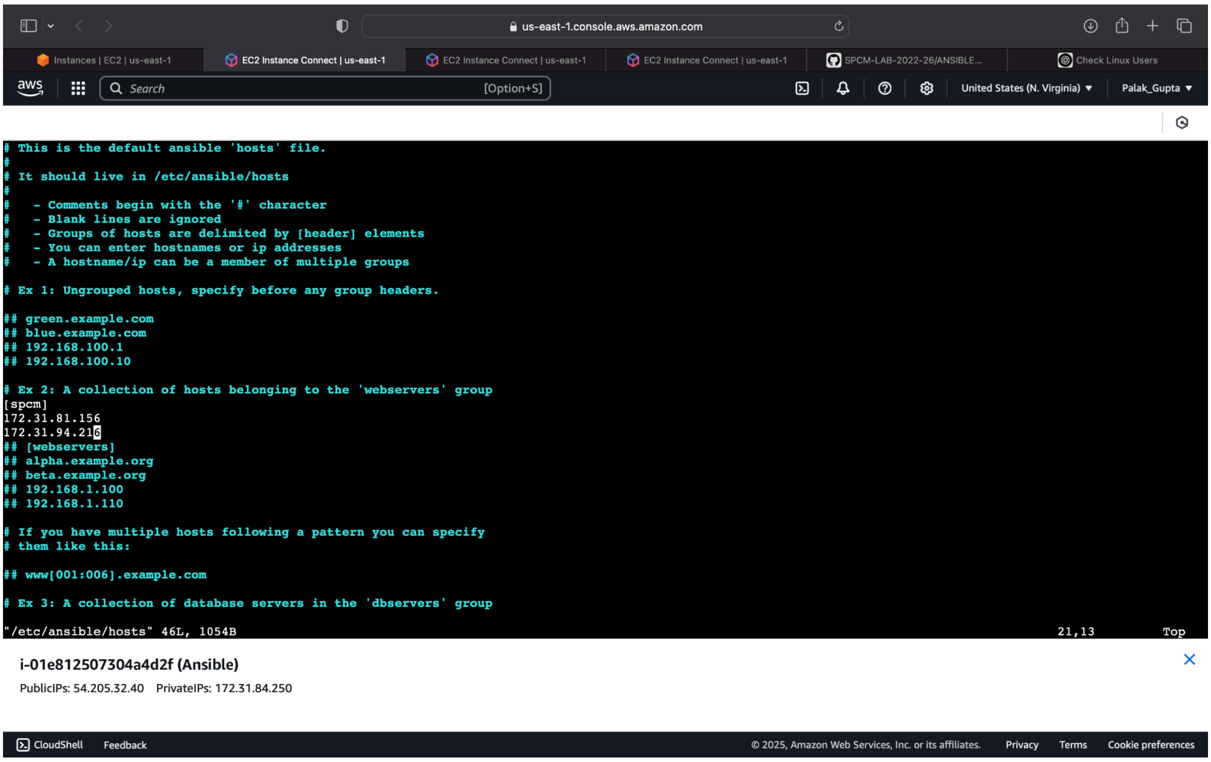
3.2 When the file opens, add the three lines of code below to the end of the file:

[dbbservers]

localhost:22

172.31.5.76:22

Note: Press **esc**, then write **:wq** and press **enter** to save the file.



Instances | EC2 | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
EC2 Instance Connect | us-east-1
SPCM-LAB-2022-26/ANSIBLE...
Check Linux Users
us-east-1.console.aws.amazon.com
aws
Search
[Option+S]
United States (N. Virginia) ▼
Palak_Gupta ▼

```
# This is the default ansible 'hosts' file.
#
# It should live in /etc/ansible/hosts
#
#   - Comments begin with the '#' character
#   - Blank lines are ignored
#   - Groups of hosts are delimited by [header] elements
#   - You can enter hostnames or ip addresses
#   - A hostname/ip can be a member of multiple groups

# Ex 1: Ungrouped hosts, specify before any group headers.

## green.example.com
## blue.example.com
## 192.168.100.1
## 192.168.100.10

# Ex 2: A collection of hosts belonging to the 'webservers' group
[spcm]
172.31.81.156
172.31.94.216
## [webservers]
## alpha.example.org
## beta.example.org
## 192.168.1.100
## 192.168.1.110

# If you have multiple hosts following a pattern you can specify
# them like this:

## www[001:006].example.com

# Ex 3: A collection of database servers in the 'dbservers' group

"/etc/ansible/hosts" 46L, 1054B                                                                  21,13         Top
```

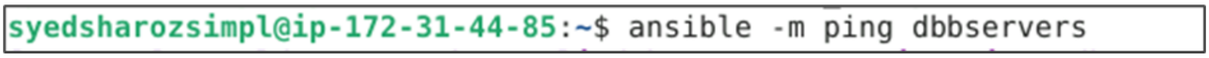
i-01e812507304a4d2f (Ansible)

PublicIPs: 54.205.32.40   PrivateIPs: 172.31.84.250

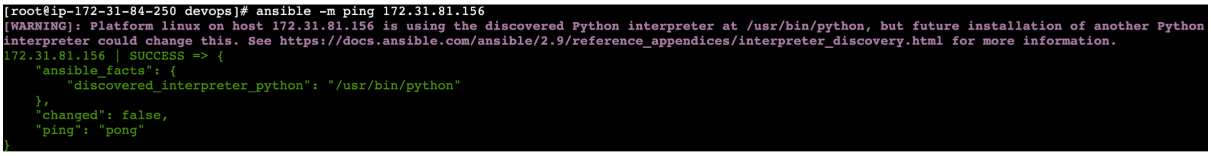
Step 4: Establish connectivity between the hosts specified in the host file and the Ansible server

4.1 Run the following command to copy the public key to another node that will connect to the Ansible server:

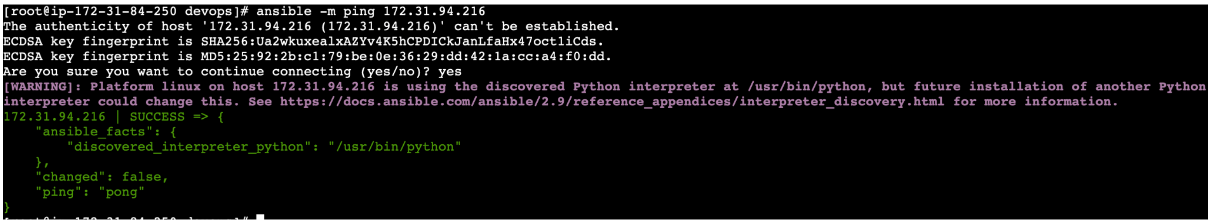
ansible -m ping dbbservers



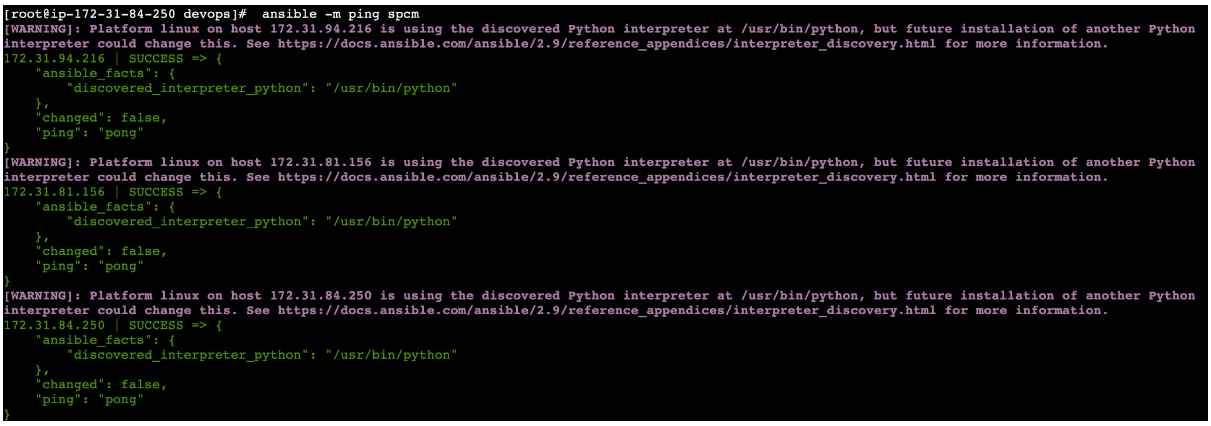
```
syedsharozsimpl@ip-172-31-44-85:~$ ansible -m ping dbbservers
```



```
[root@ip-172-31-84-250 devops]# ansible -m ping 172.31.81.156
[WARNING]: Platform linux on host 172.31.81.156 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python
interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
172.31.81.156 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python"
    },
    "changed": false,
    "ping": "pong"
}
```



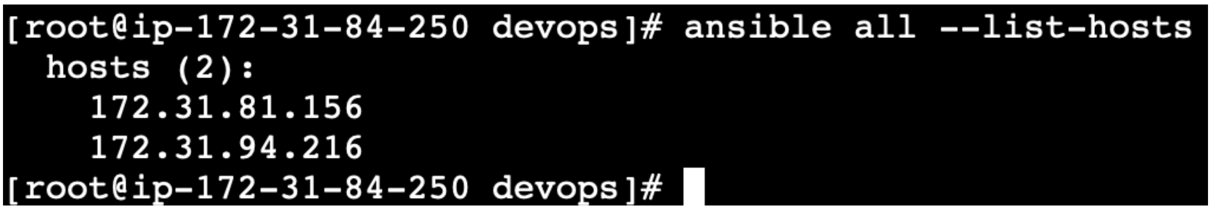
```
[root@ip-172-31-84-250 devops]# ansible -m ping 172.31.94.216
The authenticity of host '172.31.94.216 (172.31.94.216)' can't be established.
ECDSA key fingerprint is SHA256:Ua2wkuxealxAZYv4K5hCPDICkJanLfaHx47oct1iCds.
ECDSA key fingerprint is MD5:25:92:2b:c1:79:be:0e:36:29:dd:42:1a:cc:a4:f0:dd.
Are you sure you want to continue connecting (yes/no)? yes
[WARNING]: Platform linux on host 172.31.94.216 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python
interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
172.31.94.216 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python"
    },
    "changed": false,
    "ping": "pong"
}
```



```
[root@ip-172-31-84-250 devops]#  ansible -m ping spcm
[WARNING]: Platform linux on host 172.31.94.216 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python
interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
172.31.94.216 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python"
    },
    "changed": false,
    "ping": "pong"
}
[WARNING]: Platform linux on host 172.31.81.156 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python
interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
172.31.81.156 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python"
    },
    "changed": false,
    "ping": "pong"
}
[WARNING]: Platform linux on host 172.31.84.250 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python
interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
172.31.84.250 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python"
    },
    "changed": false,
    "ping": "pong"
}
```

4.2 Use the following command to check the number of hosts in the host file:

ansible all --list-hosts



```
[root@ip-172-31-84-250 devops]# ansible all --list-hosts
  hosts (2):
    172.31.81.156
    172.31.94.216
[root@ip-172-31-84-250 devops]#
```

By following these steps, you have successfully created a static host inventory for managing and automating infrastructure tasks efficiently across multiple servers using Ansible.