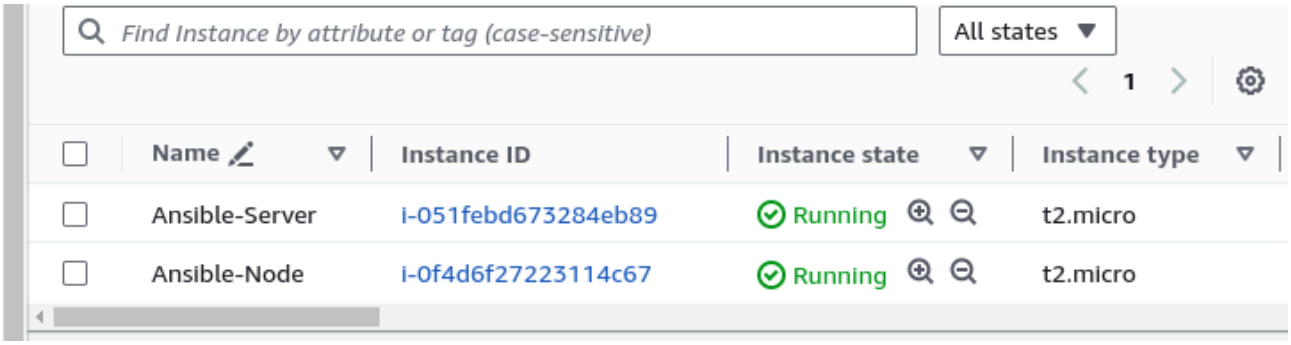
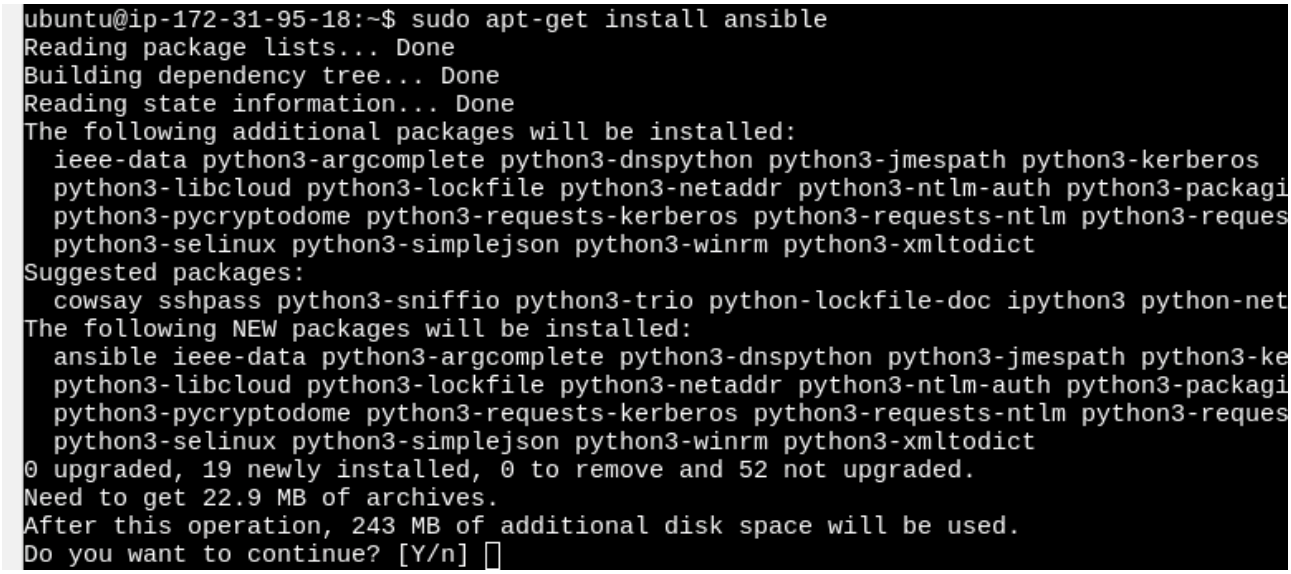
Experiment 11 : Configure Ansible Setup in Linux

Steps :

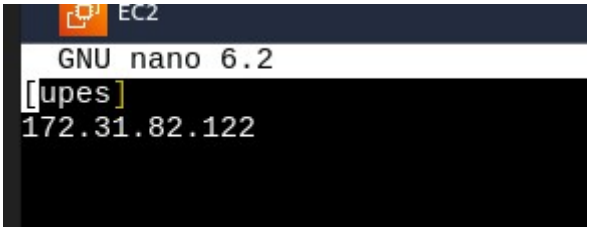
1. Create two Linux based t2.micro instances – Ansible Server and Ansible Node



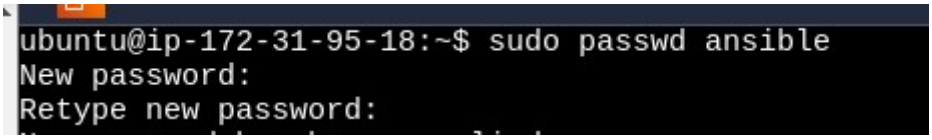
2. Install Ansible on Ansible Server.



3. Add private IP of node to ansible server's inventory file. (create playbook.yaml file is host file is not found).



4. Create super users in both machines



```
ubuntu@ip-172-31-82-122:~$ sudo adduser ansiblenode
Adding user `ansiblenode' ...
Adding new group `ansiblenode' (1001) ...
Adding new user `ansiblenode' (1001) with group `ansiblenode' .
Creating home directory `/home/ansiblenode' ...
```

5. Give Root Privileges to both users.

```
# User privilege specification
root    ALL=(ALL:ALL) ALL
ansible ALL=(ALL) NOPASSWD: ALL

# Members of the admin group may gain root privile
%admin ALL=(ALL) ALL

# Allow members of group sudo to execute any comma
%sudo   ALL=(ALL:ALL) ALL
```

```
# Cmnd alias specification

# User privilege specification
root    ALL=(ALL:ALL) ALL
ansiblenode ALL=(ALL) NOPASSWD: ALL

# Members of the admin group may gain root privileges
```

6. Edit the ssh_config file in the node server

```
ssh/ ssl/
ubuntu@ip-172-31-82-122:~$ nano /etc/ssh/sshd_config
ubuntu@ip-172-31-82-122:~$
```

```
#SyslogFacility AUTH
#LogLevel INFO

# Authentication:

#LoginGraceTime 2m
PermitRootLogin yes
#StrictModes yes
#MaxAuthTries 6
```

```
#IgnoreRhosts yes

# To disable tunneled clear text passw
PasswordAuthentication yes
#PermitEmptyPasswords no

# Change to yes to enable challenge-res
# some PAM modules and threads)
```

```
ubuntu@ip-172-31-82-122:~$ service sshd restart
==== AUTHENTICATING FOR org.freedesktop.systemd1.manage-units ===
Authentication is required to restart 'ssh.service'.
Authenticating as: Ubuntu (ubuntu)
Password:
```

7. Generate Key pair in Ansible Server and Copy the key to nodeserver

```
ubuntu@ip-172-31-95-18:~$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/ubuntu/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/ubuntu/.ssh/id_rsa
Your public key has been saved in /home/ubuntu/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:3e0Jwh9rYXpkjXw0OYagpvmoUBk1xDL/C7c3W5QG2d4 ubuntu@ip-172-31-95-18
The key's randomart image is:
+---[RSA 3072]----+
|     o+   .      |
|    o... . + . . |
|    .+  o o o *  |
|     o.+ o = O o |
|    o o.S + / E  |
|   .  .oo  X B . |
|  .   .o.o. * o  |
|   . .  o o+     |
|    .    ..o     |
+----[SHA256]-----+
ubuntu@ip-172-31-95-18:~$ ssh-copy-id ansiblenode@172.31.82.122
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/ubuntu/.ssh/id_rsa.pub"
The authenticity of host '172.31.82.122 (172.31.82.122)' can't be established.
ED25519 key fingerprint is SHA256:otufJHa38aK0fwbKK5352bADpus+AKx0vV7+NE4e+xg.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are alr
eady installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to inst
all the new keys
```

8. Connect to node from ansible server

```
ubuntu@ip-172-31-95-18:~$ ssh 'ansiblenode@172.31.82.122'
Linux ip-172-31-82-122 6.5.0-1014-aws #14~22.04.1-Ubuntu SMP Thu Fe
_64 x86_64 GNU/Linux
ansiblenode@172.31.82.122:
```