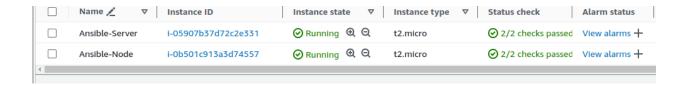
Experiment 11

Configure Ansible Setup In Linux

Steps

1. Create two amazon Linux t2.micro instance - Ansible Server & Node



Install Ansible on Ansible server

```
Amazon Linux 2023
                   https://aws.amazon.com/linux/amazon-linux-2023
 ec2-user@ip-172-31-5-62 ~]$ sudo yum update -y
Last metadata expiration check: 0:05:55 ago on Fri Apr 26 09:27:12 2024.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-5-62 ~]$ sudo yum install ansible -y
Last metadata expiration check: 0:06:11 ago on Fri Apr 26 09:27:12 2024.
Dependencies resolved.
 Package
                                               Architecture
Installing:
 ansible
                                               noarch
Installing dependencies:
                         : git-core-2.40.1-1.amzn2023.0.1.x86_6
  Verifying
 3/4
  Verifying
                         : sshpass-1.09-6.amzn2023.0.1.x86_64
 4/4
Installed:
  ansible-8.3.0-1.amzn2023.0.1.noarch
                                                                     ansib
Complete!
```

```
[ec2-user@ip-172-31-5-62 ~ ]$ ansible --version
ansible [core 2.15.3]
config file = None
configured module search path = ['/home/ec2-user/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
ansible python module location = /usr/lib/python3.9/site-packages/ansible
ansible collection location = /home/ec2-user/.ansible/collections:/usr/share/ansible/collections
executable location = /usr/bin/ansible
python version = 3.9.16 (main, Sep 8 2023, 00:00:00) [GCC 11.4.1 20230605 (Red Hat 11.4.1-2)] (/usr/bin/python3.9)
jinja version = 3.1.2
libyaml = True
[ec2-user@ip-172-31-5-62 ~]$
```

3. Add Private IP of node to the ansible server's inventory file

```
[upcs]
172.31.5.83
```

Create super user in both the machines

```
[root@ip-172-31-11-127 ansible]# passwd ansible
Changing password for user ansible.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[root@ip-172-31-11-127 ansible]# [
```

```
[root@ip-172-31-5-83 ansible]# passwd ansiblenode
Changing password for user ansiblenode.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[root@ip-172-31-5-83 ansible]# [
```

5. Give sudo user permissions to both users

```
## user MACHINE=COMMANDS
##
## The COMMANDS section may have other options added to it
##
## Allow root to run any commands anywhere
root ALL=(ALL) ALL
ansible ALL=(ALL) NOPASSWD: ALL
## Allows members of the 'sys' group to run networking, so
## service management apps and more.
# %sys ALL = NETWORKING, SOFTWARE, SERVICES, STORAGE, DELEC
```

```
## The COMMANDS section may have other options added to it
##
## Allow root to run any commands anywhere
root ALL=(ALL) ALL
ansiblenode ALL=(ALL) NOPASSWD: ALL

## Allows members of the 'sys' group to run networking, so
## service management apps and more.
# %sys ALL = NETWORKING, SOFTWARE, SERVICES, STORAGE, DELE
```

6. Edit the sshd_config file in the node server

```
[root@ip-172-31-5-83 ec2-user]# visudo
[root@ip-172-31-5-83 ec2-user]# nano /etc/ssh/sshd_config
[root@ip-172-31-5-83 ec2-user]# []
```

```
# Authentication:

#LoginGraceTime 2m

PermitRootLogin yes

#StrictModes yes
```

```
# Don't read the user's ~/.rhos
#IgnoreRhosts yes

# To disable tunneled clear tex
PasswordAuthentication yes
#PermitEmptyPasswords no
#PasswordAuthentication no
```

```
[root@ip-172-31-5-83 ec2-user]# visudo
[root@ip-172-31-5-83 ec2-user]# nano /etc/ssh/sshd_config
[root@ip-172-31-5-83 ec2-user]# service sshd restart
Redirecting to /bin/systemctl restart sshd.service
[root@ip-172-31-5-83 ec2-user]# [
```

7. Generate key pair in the ansible server and copy the key to node server

```
-bash: ssn-key: command not found
[ansible@ip-172-31-11-127 ~]$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/ansible/.ssh/id_rsa):
/home/ansible/.ssh/id_rsa already exists.
Overwrite (y/n)? y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/ansible/.ssh/id_rsa.
Your public key has been saved in /home/ansible/.ssh/id_rsa.pub.
The key fingerprint is:
The key fingerprint is:
SHA256:WciCBF7n9Wn5bE6bw5SX67C7unB6gD
The key's randomart image is:
+---[RSA 2048]----+
   ..0 . .
     + + * E
      0000..
         S . B 0
           00+0.
     [SHA256]----
```

8. Connect to node server from ansible server