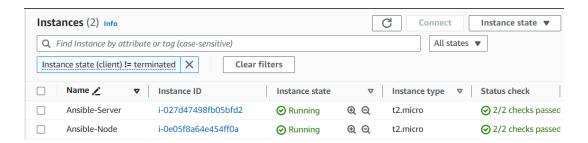
EXPERIMENT – 11

Name: - Shashwat. Dnyaneshwar Kamdi
Batch – 2 [DevOps Non-Hons]
SAP ID- 500092140
Subject – System Provisioning and Configuration Management Lab

Aim: Configure Ansible Setup in Linux.

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



2. Install ansible on Ansible Server

```
root@ip-172-31-32-128 ec2-user]# wget https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm
 -2024-04-26 09:15:14-- https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm
Resolving dl.fedoraproject.org (dl.fedoraproject.org)... 38.145.60.24, 38.145.60.22, 38.145.60.23
Connecting to dl.fedoraproject.org (dl.fedoraproject.org)|38.145.60.24|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 15608 (15K) [application/x-rpm]
Saving to: 'epel-release-latest-7.noarch.rpm'
2024-04-26 09:15:15 (58.6 KB/s) - `epel-release-latest-7.noarch.rpm' saved [15608/15608]
[root@ip-172-31-32-128 ec2-user]# yum install epel-release-latest-7.noarch.rpm
Loaded plugins: extras suggestions, langpacks, priorities, update-motd
Examining epel-release-latest-7.noarch.rpm: epel-release-7-14.noarch
Marking epel-release-latest-7.noarch.rpm to be installed
Resolving Dependencies
 -> Running transaction check
 --> Package epel-release.noarch 0:7-14 will be installed
 -> Finished Dependency Resolution
mzn2-core/2/x86 64
Dependencies Resolved
[root@ip-172-31-32-128 ec2-user]# ls
[root@ip-172-31-32-128 ec2-user]# ansible --version
ansible 2.9.27
 config file = /etc/ansible/ansible.cfg
configured module search path = [u'/root/.ansible/plugins/modules', u'/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python2.7/site-packages/ansible
 executable location = /bin/ansible

python version = 2.7.18 (default, Dec 18 2023, 22:08:43) [GCC 7.3.1 20180712 (Red Hat 7.3.1-17)]
```

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

```
# Ex 1: Ungrouped hosts, specify before any group headers.
[upes]
172.31.32.73
# green.example.com
## blue.example.com
## 192.168.100.1
## 192.168.100.10
```

4. Create super user in both the machines

```
[root@ip-172-31-32-128 ec2-user]# adduser Ansible
[root@ip-172-31-32-128 ec2-user]# passwd Ansible
Changing password for user Ansible.
New password:
BAD PASSWORD: The password contains the user name in some form
Retype new password:
passwd: all authentication tokens updated successfully.
[root@ip-172-31-32-128 ec2-user]#
```

```
[root@ip-172-31-32-73 ec2-user]# adduser Ansible
[root@ip-172-31-32-73 ec2-user]# passwd Ansible
Changing password for user Ansible.
New password:
BAD PASSWORD: The password contains the user name in some form
Retype new password:
Sorry, passwords do not match.
New password:
BAD PASSWORD: The password contains the user name in some form
Retype new password:
passwd: all authentication tokens updated successfully.
[root@ip-172-31-32-73 ec2-user]#

i-0e05f8a64e454ff0a (Ansible-Node)
PublicIPs: 65.0.169.25 PrivateIPs: 172.31.32.73
```

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, softwar
## service management apps and more.
# %sys ALL = NETWORKING, SOFTWARE, SERVICES, STORAGE, DELEGATIN
```

```
## 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, sof
## service management apps and more.
# %sys ALL = NETWORKING, SOFTWARE, SERVICES, STORAGE, DELEG.
```

6. Edit the sshd_config file in the node server

```
root@ip-172-31-5-83:/home/ec2-user

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

#LoginGraceTime 2m
PermitRootLogin yes
#StrictModes yes

# Don't read the user's ~/.rhosts and ~/.shosts files
#IgnoreRhosts yes

# To disable tunneled clear text passwords, change to no here!
PasswordAuthentication yes
#PermitEmptyPasswords no
#PasswordAuthentication no
```

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

8. Connect to node server from ansible server

