

LAB 5: Installing Ansible Server

Step 1: Launch three Amazon-Linux-2 machines

Step 2: Download and install epel repository

```
wget http://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm
yum install epel-release-7.noarch.rpm -y
sudo yum update -y
```

Step 3: Install ansible along with git, python, python-devel, python-pip, openssl

```
sudo yum install git python python-devel python-pip openssl ansible -y
sudo amazon-linux-extras install ansible2 -y
```

Step 4: Go inside ansible.cfg which is under /etc/ansible directory to enable or uncomment the below lines

```
sudo vi /etc/ansible/ansible.cfg
(Press i)
inventory = /etc/ansible/hosts (uncomment)
sudo_user = root (uncomment)
(Press esc)
:wq!
```

Step 5: Ansible inventory

```
vi /etc/ansible/hosts
(Press i)
[groupname]
machine name OR machine IP
(Press esc)
:wq!
```

Step 6: Test environment setup

```
adduser ansible (in all machines)
passwd ansible (in all machines)
visudo
(Press i)
ansible ALL=(ALL) NOPASSWD:ALL
(Press esc)
:wq!
```

Step 7: To establish ssh connection among all hosts (do it in all machines)

```
vi /etc/ssh/sshd_config
```

(Press i)
PermitRootLogin yes (uncomment line, set to yes)
PasswordAuthentication yes (uncomment line, set to yes)
PermitRootLogin no (comment)
PasswordAuthentication no (comment)
(Press esc)
:wq!
su ansible -
whoami
sudo yum update
ssh <node-private-ip> (It prompts for password)

Step 8: Password less authentication (on Ansible Server)

ssh key-gen (can see .ssh/both keys in same directory)

Step 9: Copy the ssh keys to all the nodes (be in a master, be in a .ssh folder, will ask password for the last time)

ssh-copy-id ansible@<node-private-ip>

Step 10: Test ssh connection

ssh <node-private-ip>