***Ansible Practical***

Requirement:

1. One Main (Master) machine and 2 remote machines
2. Ansible package

Steps:

1. Create 3 Linux machines in aws (One Main machine and 2 remote machines)
2. Install Ansible package in Main machine
3. Create user and convert normal user in to Superuser in main machine
4. Create user and convert normal user in to Superuser in 2 Remote machines
5. Establish connectivity with the help of ssh password-less authentication on remote server machines and the ansible master machine
6. Create one inventory in Ansible master about remote server and we will validate them

**Step:1**

**Create3 AMI Linux instance**

1. Master
2. Remote server-1
3. Remote server-2

**Step:2**

**Master Configuration:**

1. Install ansible package

#yum install ansible

Copy and paste the link below and run to install

#sudo amazon-install-extras install ansible -y

**Step:3**

1. Create useraccount and add password (eg:sda)

#visudo

Insert and type **# sda ALL= (ALL) pass: nopassword**

#vi /etc/ssh/sshd\_config

Add ‘#’ password authentication: no

And save

#systemctl restart sshd

#ssh-keygen

Press enter 3 times

**Step:4**

**Remote server -1 & 2 configurations**

#useradd abc

#passwd abc

Type password

#visudo

In insert mode

Type **# abc ALL= (ALL) pass: nopassword**

And save the file

#vi /etc/ssh/sshd\_config

Add ‘#’ password authentication: no

#systemctl restart sshd

#ssh-keygen

Press Enter 3 times

#ifconfig

For private ip-address

**Step:5**

**Establish connectivity with the help of ssh password-less authentication on remote server machines and the ansible master machine**

**Master machine configuration**

#ssh-copy-id ‘user@ip-address’ (Remote server-1)

#exit

# ssh-copy-id ‘user@ip-address’ (Remote server-2)

#exit

**Step:5**

**Create one inventory in Ansible master**

#vi /etc/ansible/hosts

Press i to insert

[test]

172.31.10.233 ansible\_user= abc 🡪 Remoteserver-1 user

172.31.10.34 ansible\_user= abc 🡪 Remoteserver-2 user

Save and exit

#ansible test -m ping 🡪 (To check)

#cat>1.txt

“This is a sample file”

Ctrl+D to save

#vi 1.txt

Insert and modify the content or add content

#ansible test -m copy -d “src=/root/1.txt dest=/tmp/1.txt”

**Check in Remote server machines:**

#cd /tmp

#ls -l

Some useful ad-hac commands

#ansible all –list -hosts

#ansible <group name> --list -hosts

#ansible 0 –list -hosts

#ansible 1 –list -hosts

#ansible 1:5 –list -hosts

#ansible <group name-1>[1:5] <group name-2>[1:5] –list -hosts

All The Best

***Create Playbook***

**(Create for webserver)**

Login to Master Server

#sudo su –

#vi webserver.yml

#press i for insert mode

- hosts: test

become: yes

tasks:

- package: “name=httpd state=latest”

- copy: “src=/root\index.html dest=/var/www/html”

- service: “name=httpd state=started”

Save and exit

#cat /etc/ansible/Hosts 🡪 to check

#cat>index.html

Type text and save the file

#ansible-playbook -I /etc/ansible/Hosts webserver.yml

**Check in remote servers:**

#yum list httpd

#systemctl status httpd

#cd /var/www/html

#ls -l for index.html