9. Configuration Management using Ansible

Installing Ansible on AWS:

It involves following steps

- 1. Install Ansible on Master/Control node
- 2. Configure SSH access to Ansible Client/Slave
- 3. Setting up ansible Host and Test connection
- 1. Install Ansible on Master/Control node

Set Up in AWS Account:

- Lunch 2 instances of **Ubuntu** t2.micro type and allow all traffic.
- Rename instances one as Master and One as Client

Using Powershell

Connect to EC2 instances using following command

ssh -i "<path of pem key>" <user_name>@<Private_dns>

On Master Node:

Install ansible using following commands

Ref: https://docs.ansible.com/ansible/latest/installation_guide/installation_distros.html

```
$ sudo apt update
```

- \$ sudo apt install software-properties-common
- \$ sudo add-apt-repository -yes -update ppa:ansible/ansible
- \$ sudo apt install ansible

On Client Node

Install Python using following commands

- \$ sudo apt update
- \$ sudo apt install python3
- 2. Configure SSH access to Ansible Client/Slave

Keyless Access from Master to Slave/ Control node to Host nodes:

Generate ssh key on Master node:

```
$ Ssh-keygen
```

\$ cat id_rsa.pub

Copy Publick key(the output of above command) of Master node into authorized_keys file on client node

① Authorized_keys file is available in .ssh folder

To Test: on master node run the following command Sudo ssh <username>@<private ip of client node>

3. Setting up ansible Host and Test connection

On Master Node:

Sudo vi /etc/ansible/hosts

Add the following lines at the end

```
[<groupname>]
```

<client_name> ansible_ssh_host=<private_ip> ansible_ssh_user=<username>
ansible_ssh_pass=<password>

Ex:

```
[httpd_servers]
Client1 ansible_ssh_host=10.5.34.29 ansible_ssh_user=ubuntu
```

Client2 ansible_ssh_host=10.5.34.178 ansible_ssh_user=ubuntu Check Master is communicating with Slave or not with the following command Ansible -m ping all/groupname/hostname

