

## Module-6: Ansible Assignment - 1

You have been asked to:

- Setup Ansible cluster with 3 nodes
- On slave1 install java
- On slave 2 install mysql-server

Do the above tasks using Ansible playbooks

### **Answer:**

Install the Ansible in the master node.

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

Prep Master node

```
$ sudo ssh-keygen -t rsa
```

Now edit the Ansible hosts file and add the entries

```
$ cat /etc/ansible/hosts
Slave1 ansible_host=192.168.175.101
Slave2 ansible_host=192.168.175.102
```

Copy the SSH keys to Slave1 and Slave2 so that we can make SSH connections

```
$ ssh-copy-id aravi@192.168.175.101
$ ssh-copy-id aravi@192.168.175.102
```

Make sure the user as sudo privileges to install the packages on Slave nodes

```
$ cat /etc/sudoers
aravi    ALL=(ALL:ALL) NOPASSWD: ALL
```

Try to Ping the Nodes using the Ansible ping module

```
aravi@kube-cntrl:~$ ansible -m ping all
Slave1 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
Slave2 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
aravi@kube-cntrl:~$ cat /etc/ansible/hosts
Slave1 ansible_host=192.168.175.101
Slave2 ansible_host=192.168.175.102
```

Write the Playbook to accomplish the tasks

```
---
- name: Installing Java Package in Slave1
  hosts: Slave1
  become: yes
  tasks:
    - name: Update cache
      ansible.builtin.apt:
        update_cache: yes
    - name: Install Java Package
      apt: name=openjdk-11-jdk state=latest

- name: Installing MySQL Package in Slave2
  hosts: Slave2
  become: yes
  tasks:
    - name: Update cache
      ansible.builtin.apt:
        update_cache: yes
```

```
- name: Install MySQL Server Package
  apt: name=mysql-server state=latest
```

Now run the playbook

```
$ ansible-playbook installpackage.yaml
```

```
PLAY [Installing Java Package in Slave1] *****
```

```
TASK [Gathering Facts] *****
```

```
ok: [Slave1]
```

```
TASK [Update cache] *****
```

```
changed: [Slave1]
```

```
TASK [Install Java Package] *****
```

```
changed: [Slave1]
```

```
PLAY [Installing MySQL Package in Slave2] *****
```

```
TASK [Gathering Facts] *****
```

```
ok: [Slave2]
```

```
TASK [Update cache] *****
```

```
changed: [Slave2]
```

```
TASK [Install MySQL Server Package] *****
```

Completed tasks successfully.