

Module-6: Ansible Assignment - 5

You have been asked to:

Create a new deployment of an Ansible cluster of 5 nodes

Label 2 nodes as test and the other 2 as a prod

Install Java on test nodes

Install mysql-server on prod nodes

Use Ansible roles for the above, group the hosts under test, and prod

Answer:

Modify the `/etc/ansible/hosts` file for segregating the groups

```
sudo vim /etc/ansible/hosts

[test]
Slave1 ansible_host=192.168.175.101 ansible_user=aravi
Slave1 ansible_host=192.168.175.102 ansible_user=aravi
[prod]
Slave1 ansible_host=192.168.175.103 ansible_user=aravi
Slave1 ansible_host=192.168.175.104 ansible_user=aravi
```

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

```
$ ssh-copy-id aravi@192.168.175.103
$ ssh-copy-id aravi@192.168.175.104
```

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

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

Create Ansible Roles test and prod

```
$ sudo ansible-galaxy init test
- Role test was created successfully

$ sudo ansible-galaxy init prod
- Role prod was created successfully

$ ls
test  prod
```

File: /etc/ansible/roles/test/tasks/main.yml

```
---
- name: Update apt cache
  ansible.builtin.apt:
    update_cache: yes

- name: Install Java
  ansible.builtin.apt:
    name: openjdk-11-jdk
    state: present
```

File: /etc/Ansible/roles/prod/tasks/main.yml

```
---
- name: Update apt cache
  ansible.builtin.apt:
    update_cache: yes

- name: Install MySQL Server
  ansible.builtin.apt:
    name: mysql-server
    state: present
```

File: /etc/ansible/executeroles.yml

```
---
- name: install Java on Test Nodes
  hosts:
    - test
  become: true
  roles:
    - test
- name: install MySQL on Prod Nodes
  hosts:
    - prod
  become: true
  roles:
    - prod
```