

Module-6: Ansible Assignment - 3

You have been asked to:

Create 2 Ansible Roles

Install apache2 on slave1 using one role and Nginx on slave2 using the other role

The above should be implemented using different Ansible Roles

Answer:

Create two roles

1. Apache2
2. Nginx

```
$ sudo ansible-galaxy init apache2
- Role apache2 was created successfully

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

$ ls
apache2  nginx
```

Apache2 Role main.yaml file

```
aravi@kube-cntrl:/etc/ansible/roles/apache2/tasks$ cat main.yaml
---
- name: Update apt cache
  ansible.builtin.apt:
    update_cache: yes

- name: Install Apache2
  ansible.builtin.apt:
    name: apache2
    state: present

- name: Start Apache2 service
  ansible.builtin.systemd_service:
    name: apache2
    state: started
    enabled: true
```

Nginx Role main.yaml file

```
aravi@kube-cntrl:/etc/ansible/roles/nginx/tasks$ cat main.yaml
```

```

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

- name: Install Nginx
  ansible.builtin.apt:
    name: nginx
    state: present

- name: Start Nginx service
  ansible.builtin.systemd_service:
    name: nginx
    state: started
    enabled: true

```

Main playbook to call the roles

```

aravi@kube-cntrl:/etc/ansible$ cat executerroles.yaml
---
- name: install apache2 on Slave1
  hosts:
    - Slave1
  become: true
  roles:
    - apache2
- name: install nginx on Slave2
  hosts:
    - Slave2
  become: true
  roles:
    - nginx

```

Execute the roles using Ansible-playbook command

```

aravi@kube-cntrl:/etc/ansible$ ansible-playbook
executerroles.yaml

PLAY [install apache2 on Slave1] *****
TASK [Gathering Facts] *****
ok: [Slave1]

TASK [apache2 : Update apt cache]
*****
ok: [Slave1]

```

```

TASK [apache2 : Install Apache2]
*****
ok: [Slave1]

TASK [apache2 : Start Apache2 service]
*****
ok: [Slave1]

PLAY [install nginx on Slave2] *****
TASK [Gathering Facts] *****
ok: [Slave2]

TASK [nginx : Update apt cache] *****
ok: [Slave2]

TASK [nginx : Install Nginx] *****
ok: [Slave2]

TASK [nginx : Start Nginx service]
*****
changed: [Slave2]

PLAY RECAP *****
Slave1                : ok=4    changed=0    unreachable=0
failed=0      skipped=0    rescued=0    ignored=0
Slave2                : ok=4    changed=1    unreachable=0
failed=0      skipped=0    rescued=0    ignored=0

```

Installed the Apache2 and Nginx in Slave1 and Slave2 using Ansible Roles.