

## Module 5: Ansible Assignment – 3

1. Create 2 Ansible roles
2. Install Apache2 on slave1 using one role and NGINX on slave2 using the other role
3. Above should be implemented using different Ansible roles

- Two ansible roles are created naming apacheinstall and nginxinstall

```
ubuntu@ansible-master:~$ ansible-galaxy init apacheinstall
- Role apacheinstall was created successfully
ubuntu@ansible-master:~$ ansible-galaxy init nginxinstall
- Role nginxinstall was created successfully
ubuntu@ansible-master:~$
```

i-00341eca9bde22ae5 (Ansible Master)

PublicIPs: 3.84.152.187 PrivateIPs: 172.31.37.202

- In apacheinstall role navigated to tasks folder and edited main.yml file with the script to install apache2 server

```
ubuntu@ansible-master:~$ cd apacheinstall
ubuntu@ansible-master:~/apacheinstall$ ls
README.md  defaults  files  handlers  meta  tasks  templates  tests  vars
ubuntu@ansible-master:~/apacheinstall$ cd tasks
ubuntu@ansible-master:~/apacheinstall/tasks$ ls
main.yml
ubuntu@ansible-master:~/apacheinstall/tasks$ vi main.yml
ubuntu@ansible-master:~/apacheinstall/tasks$
```

```
---
# tasks file for apacheinstall
- name: install apache server
  apt:
    name: apache2
    state: present
- name: start apache2 service
  service:
    name: apache2
    state: started
```

- In ansible master home/ubuntu/ a manifest file role\_playbook1.yml is created with host and role details

```
ubuntu@ansible-master:~$ cat role_playbook1.yml
---
- hosts: slave1
  become: yes
  roles:
    - apacheinstall
ubuntu@ansible-master:~$
```

- Manifest file role\_playbook.yml syntax is validated and playbook is executed to successfully install apache2 server in slave1 machine.

```
ubuntu@ansible-master:~$ ansible-playbook role_playbook1.yml --syntax-check
playbook: role_playbook1.yml
ubuntu@ansible-master:~$ ansible-playbook role_playbook1.yml

PLAY [slave1] *****

TASK [Gathering Facts] *****
ok: [slave1]

TASK [apacheinstall : install apache server] *****
ok: [slave1]

TASK [apacheinstall : start apache2 service] *****
ok: [slave1]

PLAY RECAP *****
slave1 : ok=3 changed=0 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
```

- In nginxinstall role navigated to tasks folder and edited main.yml file with the script to install nginx server

```
ubuntu@ansible-master:~$ ls
add_text.sh  assignment1.yml  nginxinstall  playbook1.yml  run_custom_script.yml
apacheinstall assignment1.ymls  playbook.yaml  role_playbook1.yml  sqlinstallation.yml
ubuntu@ansible-master:~$ cd nginxinstall
ubuntu@ansible-master:~/nginxinstall$ ls
README.md  defaults  files  handlers  meta  tasks  templates  tests  vars
ubuntu@ansible-master:~/nginxinstall$ cd tasks
ubuntu@ansible-master:~/nginxinstall/tasks$ ls
main.yml
ubuntu@ansible-master:~/nginxinstall/tasks$ vi main.yml
```

```
---
# tasks file for nginxinstall
- name: install nginx
  apt:
    name: nginx
    state: present
- name: start nginx service
  service:
    name: nginx
    state: started
```

- In ansible master home/ubuntu/ a manifest file role\_playbook2.yml is created with host and role details

```
---
- hosts: slave2
  become: yes
  roles:
    - nginxinstall
~
~
```

- Manifest file role\_playbook.yml syntax is validated and playbook is executed to successfully install nginx server in slave2 machine

```
ubuntu@ansible-master:~$ vi role_playbook2.yml
ubuntu@ansible-master:~$ ansible-playbook role_playbook2.yml --syntax-check

playbook: role_playbook2.yml
ubuntu@ansible-master:~$ ansible-playbook role_playbook2.yml

PLAY [slave2] *****
TASK [Gathering Facts] *****
ok: [slave2]
TASK [nginxinstall : install nginx] *****
changed: [slave2]
TASK [nginxinstall : start nginx service] *****
ok: [slave2]
PLAY RECAP *****
slave2                : ok=3    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

ubuntu@ansible-master:~$ █
```