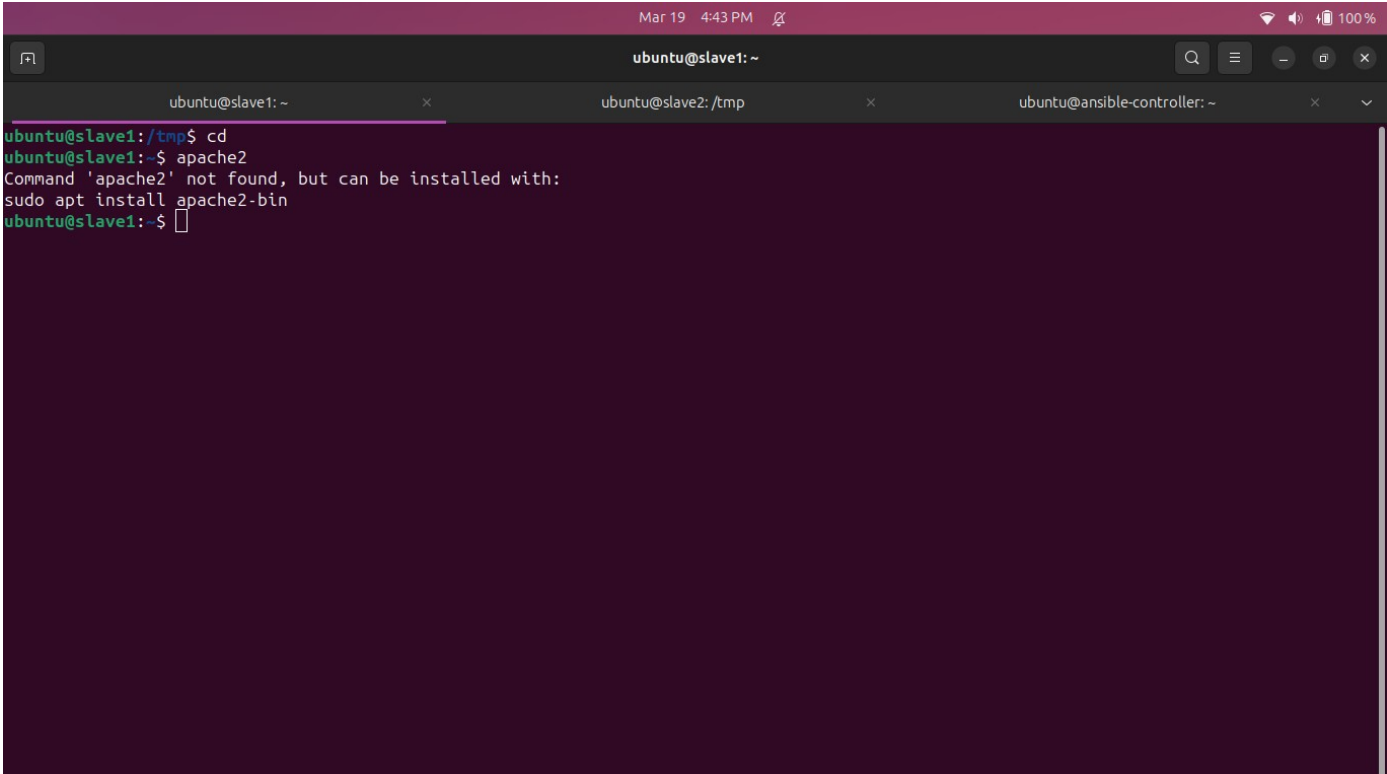


Module-6: Ansible Assignment - 3

You have been asked to:

- Create 2 Ansible Roles
- Install apache2 on slave1 using one role and nginx on slave2 using the other role

Above should be implemented using different Ansible Roles



```
Mar 19 4:43 PM
ubuntu@slave1: ~
ubuntu@slave1: /tmp$ cd
ubuntu@slave1: ~$ apache2
Command 'apache2' not found, but can be installed with:
sudo apt install apache2-bin
ubuntu@slave1: ~$
```

```
Mar 19 4:44 PM
ubuntu@slave2: ~
ubuntu@slave1: ~
ubuntu@slave2: ~
ubuntu@ansible-controller: ~

ubuntu@slave2:~$ nginx
Command 'nginx' not found, but can be installed with:
sudo apt install nginx-core      # version 1.18.0-6ubuntu14.4, or
sudo apt install nginx-extras   # version 1.18.0-6ubuntu14.4
sudo apt install nginx-light    # version 1.18.0-6ubuntu14.4
ubuntu@slave2:~$
```

```
Mar 19 4:47 PM
root@ansible-controller: /home/ubuntu/roles
ubuntu@slave1: ~
ubuntu@slave2: ~
root@ansible-controller: /home/ubuntu/roles

ubuntu@ansible-controller:~/roles$ sudo su
root@ansible-controller:/home/ubuntu/roles# mkdir apache2
root@ansible-controller:/home/ubuntu/roles# ls
apache2
root@ansible-controller:/home/ubuntu/roles#
```

```
Mar 19 4:51 PM
root@ansible-controller: /home/ubuntu

main.yaml
root@ansible-controller: /home/ubuntu/roles/apache2/tasks# tree
.
└── main.yaml

0 directories, 1 file
root@ansible-controller: /home/ubuntu/roles/apache2/tasks# cd ..
root@ansible-controller: /home/ubuntu/roles/apache2# cd ..
root@ansible-controller: /home/ubuntu/roles# tree
.
└── apache2
    └── tasks
        └── main.yaml

2 directories, 1 file
root@ansible-controller: /home/ubuntu/roles# cd ..
root@ansible-controller: /home/ubuntu# tree
.
├── ansible.cfg
├── file.yaml
├── hosts
├── myinv
├── roles
│   └── apache2
│       └── tasks
│           └── main.yaml
└── script.yaml

3 directories, 6 files
root@ansible-controller: /home/ubuntu#
```

```
Mar 19 5:12 PM
root@ansible-controller: /home/ubuntu

root@ansible-controller: /home/ubuntu# tree
.
├── ansible.cfg
├── apache2.yaml
├── file.yaml
├── hosts
├── myinv
├── roles
│   └── apache2
│       └── tasks
│           ├── install-apache2.yaml
│           └── main.yaml
└── script.yaml

3 directories, 8 files
root@ansible-controller: /home/ubuntu#
```

```
Mar 19 5:13 PM 100%
root@ansible-controller: /home/ubuntu/roles/apache2/tasks

- name: update the package
  apt:
    update_cache: yes
- name: install apache2
  apt:
    name: apache2
    state: present
- name: start service
  systemd:
    name: apache2
    state: restarted

"install-apache2.yaml" 11L, 196B 11,4 All
```

```
Mar 19 5:14 PM 100%
root@ansible-controller: /home/ubuntu/roles/apache2/tasks

- name: include the tasks
  include_tasks: install-apache2.yaml

"main.yaml" 2L, 65B 2,38 All
```

```
Mar 19 5:14 PM 100%
root@ansible-controller: /home/ubuntu
ubuntu@slave1: ~
ubuntu@slave2: ~
root@ansible-controller: /home/ubuntu

- name: Install apache2
  hosts: slave1
  become: yes
  roles:
    - apache2

"apache2.yaml" 5L, 77B 5,13 All
```

```
Mar 19 5:15 PM 100%
root@ansible-controller: /home/ubuntu
ubuntu@slave1: ~
ubuntu@slave2: ~
root@ansible-controller: /home/ubuntu

[slave1]
54.90.229.23
[slave2]
3.85.14.96

[slave1:vars]
ansible_user=ubuntu
ansible_ssh_private_key_file=/home/ubuntu/.ssh/id_rsa

[slave2:vars]
ansible_user=ubuntu
ansible_ssh_private_key_file=/home/ubuntu/.ssh/id_rsa

"myinv" 14L, 223B 4,10 All
```

```
Mar 19 5:17 PM 100%
root@ansible-controller: /home/ubuntu
ubuntu@slave1: ~
ubuntu@slave2: ~
root@ansible-controller: /home/ubuntu

root@ansible-controller: /home/ubuntu# ansible-p
ansible-playbook ansible-pull
root@ansible-controller: /home/ubuntu# ansible-playbook -i myinv apache2.yaml

PLAY [Install apache2] *****

TASK [Gathering Facts] *****
The authenticity of host '54.90.229.23 (54.90.229.23)' can't be established.
ED25519 key fingerprint is SHA256:u/jenjskncDD//DCv5IlfTir03yaEag3QxQNVNwLUXk.
This host key is known by the following other names/addresses:
  ~/.ssh/known_hosts:1: [hashed name]
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
ok: [54.90.229.23]

TASK [apache2 : include the tasks] *****
included: /home/ubuntu/roles/apache2/tasks/install-apache2.yaml for 54.90.229.23

TASK [apache2 : update the package] *****
changed: [54.90.229.23]

TASK [apache2 : install apache2] *****
changed: [54.90.229.23]

TASK [apache2 : start service] *****
changed: [54.90.229.23]

PLAY RECAP *****
54.90.229.23      : ok=5    changed=3    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

root@ansible-controller: /home/ubuntu#
```

```
Mar 19 5:23 PM 100%
ubuntu@slave1: /var/run/apache2
ubuntu@slave2: ~
root@ansible-controller: /home/ubuntu

ubuntu@slave1: /var/run/apache2$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2024-03-19 11:50:45 UTC; 3min 5s ago
     Docs: https://httpd.apache.org/docs/2.4/
  Process: 4110 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
 Main PID: 4115 (apache2)
    Tasks: 55 (limit: 1121)
   Memory: 4.8M
      CPU: 37ms
   CGroup: /system.slice/apache2.service
           └─4115 /usr/sbin/apache2 -k start
             └─4116 /usr/sbin/apache2 -k start
               └─4117 /usr/sbin/apache2 -k start

Mar 19 11:50:45 slave1 systemd[1]: Starting The Apache HTTP Server...
Mar 19 11:50:45 slave1 systemd[1]: Started The Apache HTTP Server.
ubuntu@slave1: /var/run/apache2$
```

```
Mar 19 5:25 PM
ubuntu@slave2: ~
ubuntu@slave1: /var/run/apache2
ubuntu@slave2: ~
root@ansible-controller: /home/ubuntu

ubuntu@slave2:~$ nginx
Command 'nginx' not found, but can be installed with:
sudo apt install nginx-core # version 1.18.0-6ubuntu14.4, or
sudo apt install nginx-extras # version 1.18.0-6ubuntu14.4
sudo apt install nginx-light # version 1.18.0-6ubuntu14.4
ubuntu@slave2:~$
```

```
Mar 19 5:38 PM
root@ansible-controller: /home/ubuntu
ubuntu@slave1: /var/run/apache2
ubuntu@slave2: ~
root@ansible-controller: /home/ubuntu

root@ansible-controller: /home/ubuntu# tree
├── ansible.cfg
├── apache2.yaml
├── file.yaml
├── hosts
├── myinv
├── nginx-install.yaml
├── roles
│   ├── apache2
│   │   └── tasks
│   │       ├── install-apache2.yaml
│   │       └── main.yaml
│   └── nginx
│       └── tasks
│           ├── main.yaml
│           └── nginx-install.yaml
└── script.yaml

5 directories, 11 files
root@ansible-controller: /home/ubuntu#
```



```
Mar 19 5:42 PM 95%
root@ansible-controller: /home/ubuntu
ubuntu@slave1: /var/run/apache2 x ubuntu@slave2: ~ x root@ansible-controller: /home/ubuntu x
- name: install nginx
  hosts: slave2
  become: yes
  roles:
  - nginx

"nginx-install.yaml" 5L, 73B 5,6 All
```

```
Mar 19 5:39 PM 96%
root@ansible-controller: /home/ubuntu
ubuntu@slave1: /var/run/apache2 x ubuntu@slave2: ~ x root@ansible-controller: /home/ubuntu x
root@ansible-controller: /home/ubuntu# ansible-playbook -i myinv nginx-install.yaml
PLAY [install nginx] *****
TASK [Gathering Facts] *****
The authenticity of host '3.85.14.96 (3.85.14.96)' can't be established.
ED25519 key fingerprint is SHA256:Ff7tnHw9UmfJmfi4D04ch2mZ8A8M+e0/+IwMZsjPovs.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
ok: [3.85.14.96]

TASK [nginx : include the tasks] *****
included: /home/ubuntu/roles/nginx/tasks/nginx-install.yaml for 3.85.14.96

TASK [nginx : update the package] *****
changed: [3.85.14.96]

TASK [nginx : install nginx] *****
changed: [3.85.14.96]

TASK [nginx : start service] *****
changed: [3.85.14.96]

PLAY RECAP *****
3.85.14.96 : ok=5 changed=3 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

root@ansible-controller: /home/ubuntu#
```

```
ubuntu@slave2:~$
```

2:~\$