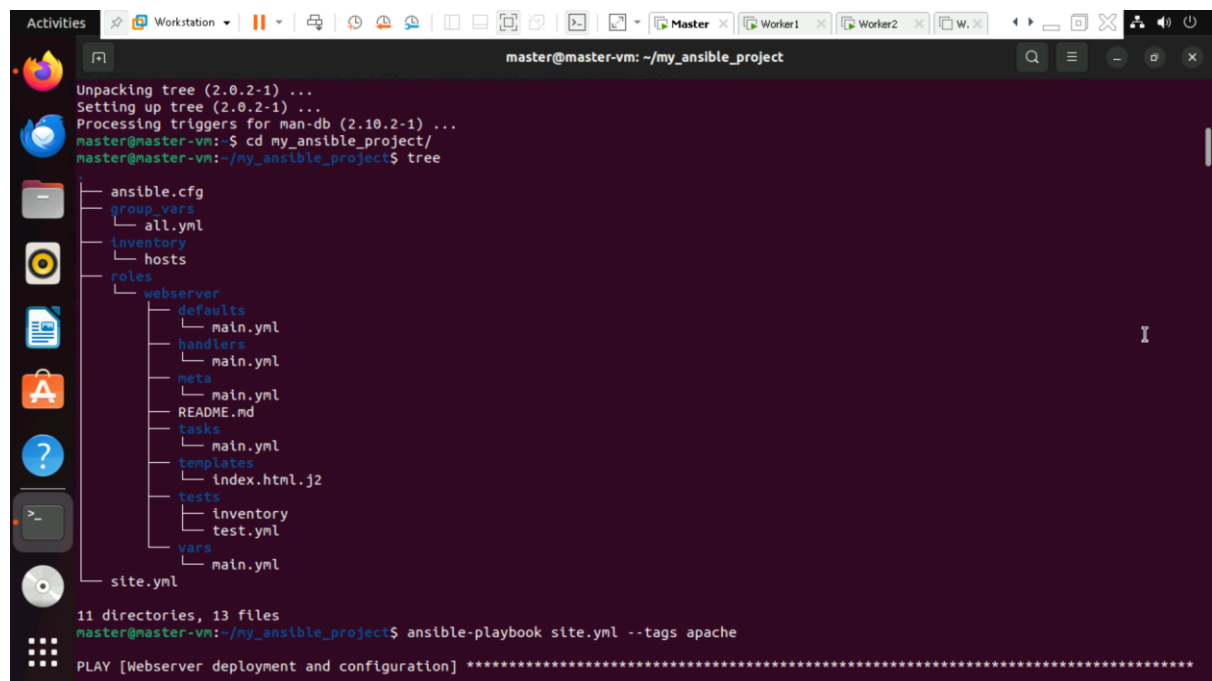# Q4 ANSIBLE ABDUL SAMIM

Directory structure-

```
master@master-vm:~$ mkdir my_ansible_project
cd my_ansible_project
master@master-vm:~/my_ansible_project$ touch ansible.cfg
nano ansible.cfg
master@master-vm:~/my_ansible_project$ mkdir -p inventory
touch inventory/hosts
nano inventory/hosts
master@master-vm:~/my_ansible_project$ touch site.yml
nano site.yml
master@master-vm:~/my_ansible_project$ ansible-galaxy init roles/webserver
- Role roles/webserver was created successfully
master@master-vm:~/my_ansible_project$ nano roles/webserver/tasks/main.yml
master@master-vm:~/my_ansible_project$ nano roles/webserver/handlers/main.yml
master@master-vm:~/my_ansible_project$ mkdir -p roles/webserver/templates
nano roles/webserver/templates/index.html.j2
master@master-vm:~/my_ansible_project$ mkdir -p roles/webserver/defaults
touch roles/webserver/defaults/main.yml
master@master-vm:~/my_ansible_project$ mkdir -p group_vars
touch group_vars/all.yml
nano group_vars/all.yml
```

```
Activities        Workstation ▾   II ▾        ⊙ ⊕ ⊙   □ □ ⊡ ⊡   ⊡ ▾  Master ×  Worker1 ×  Worker2 ×  w. ×   ◄ ►  _ ⊡ ⊠ ⚡ ◀) ⏻
⊞                         master@master-vm: ~/my_ansible_project                         Q  ≡   _  ⊡  ✕
Unpacking tree (2.0.2-1) ...
Setting up tree (2.0.2-1) ...
Processing triggers for man-db (2.10.2-1) ...
master@master-vm:~$ cd my_ansible_project/
master@master-vm:~/my_ansible_project$ tree
.
├── ansible.cfg
├── group_vars
│   └── all.yml
├── inventory
│   └── hosts
├── roles
│   └── webserver
│       ├── defaults
│       │   └── main.yml
│       ├── handlers
│       │   └── main.yml
│       ├── meta
│       │   └── main.yml
│       ├── README.md
│       ├── tasks
│       │   └── main.yml
│       ├── templates
│       │   └── index.html.j2
│       ├── tests
│       │   ├── inventory
│       │   └── test.yml
│       └── vars
│           └── main.yml
└── site.yml

11 directories, 13 files
master@master-vm:~/my_ansible_project$ ansible-playbook site.yml --tags apache

PLAY [Webserver deployment and configuration] ************************************************************************
```

Site.yml playbook

```
⊞                         master@master-vm: ~/my_ansible_project
  GNU nano 6.2                                    site.yml
---
- name: Webserver deployment and configuration
  hosts: webservers
  become: yes
  vars:
    env: stag
  roles:
    - webserver
```

Q4 ANSIBLE ABDUL SAMIM

Main.yml ansible roles

Host file (inventory)

Apply playbook

Q4 ANSIBLE ABDUL SAMIM

Check if apache is working in all the nodes

```
master@master-vm:~/my_ansible_project$ curl http://192.168.153.128
curl http://192.168.153.131
curl http://192.168.153.133
<html>
<head></head>
<body>
    <h1>Welcome to master in stag environment!</h1>
</body>
</html>
<html>
<head></head>
<body>
    <h1>Welcome to worker1 in stag environment!</h1>
</body>
</html>
<html>
<head></head>
<body>
    <h1>Welcome to worker2 in stag environment!</h1>
</body>
</html>
```