Automating webserver Deployment and Configuration Using Ansible Playbooks and Roles

1)create ansible.cfg, inventory/hosts etc..

2)create the role

5)Add role task

6)Add handler

7)Create template

8)Create encrypted vault file

9)Run the Playbook

```
master@master-vm:~/ansible-webserver$ cd ~/ansible-webserver
master@master-vm:~/ansible-webserver$ mkdir -p inventory roles group_vars/all
master@master-vm:~/ansible-webserver$ nano ansible.cfg
master@master-vm:~/ansible-webserver$ nano inventory/hosts
master@master-vm:~/ansible-webserver$ ansible-galaxy init roles/webserver
- Role roles/webserver was created successfully
master@master-vm:~/ansible-webserver$ nano roles/webserver/tasks/main.yml
master@master-vm:~/ansible-webserver$ nano roles/webserver/handlers/main.yml
master@master-vm:~/ansible-webserver$ nano roles/webserver/templates/index.html.j2
master@master-vm:~/ansible-webserver$ nano group_vars/all/vault.yml
master@master-vm:~/ansible-webserver$ ansible-vault encrypt group_vars/all/vault.yml
New Vault password:
Confirm New Vault password:
Encryption successful
```

```
master@master-vm:~/ansible-webserver$ export EDITOR=nano
master@master-vm:~/ansible-webserver$ ansible-vault create group_vars/all/vault.yml
New Vault password:
Confirm New Vault password:
master@master-vm:~/ansible-webserver$ ansible-vault view group_vars/all/vault.yml --ask-vault-pass
Vault password:
env: staging
```

```
master@master-vm:~/ansible-webserver$ ansible-playbook site.yml --ask-pass --ask-vault-pass --ask-become-pass
SSH password:
BECOME password[defaults to SSH password]:
Vault password:

PLAY [Deploy webserver] *********************************************************************************************

TASK [Gathering Facts] **********************************************************************************************
ok: [worker2]
ok: [worker1]

TASK [webserver : Install Apache] ***********************************************************************************
ok: [worker2]
changed: [worker1]

TASK [webserver : Copy custom homepage] *****************************************************************************
ok: [worker2]
changed: [worker1]

TASK [webserver : Ensure Apache is started] *************************************************************************
ok: [worker1]
ok: [worker2]

TASK [Ping test] ****************************************************************************************************
ok: [worker1]
ok: [worker2]

TASK [Install curl] *************************************************************************************************
ok: [worker1]
ok: [worker2]

RUNNING HANDLER [webserver : Restart Apache] ************************************************************************
changed: [worker1]

PLAY RECAP **********************************************************************************************************
worker1                    : ok=7    changed=3    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
worker2                    : ok=6    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

master@master-vm:~/ansible-webserver$
```
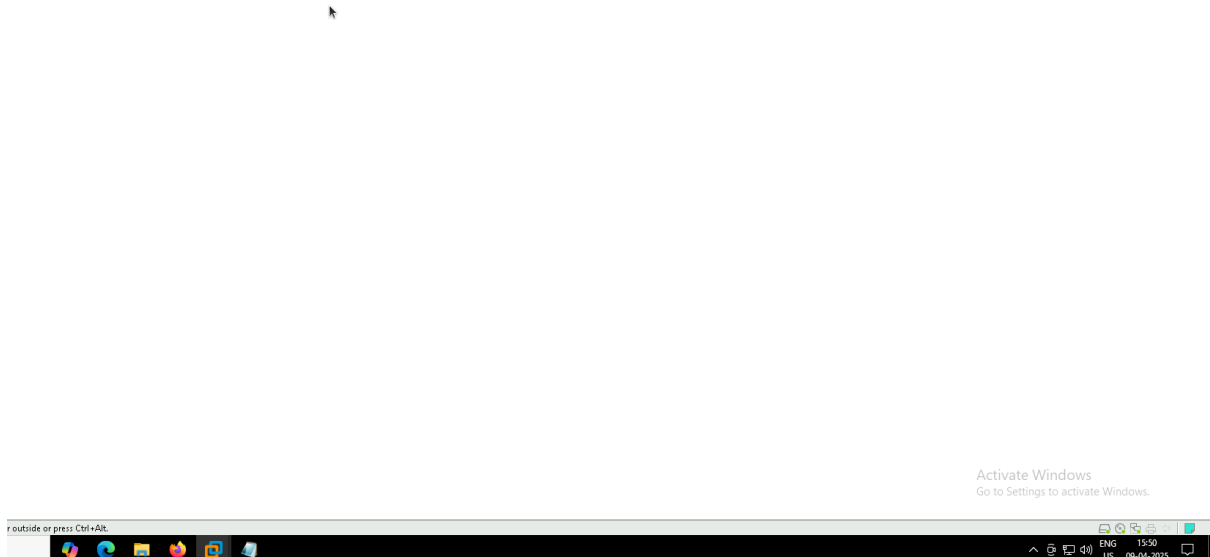
Output
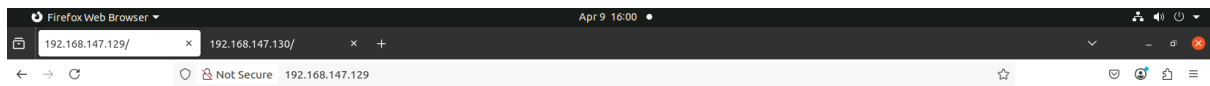
Welcome to worker1 in staging environment!

Welcome to worker2 in staging environment!