Ansible Deployment

Ansible Configuration File

```
gowri@master-vm:~$ cat ansible.cfg
[defaults]
inventory = ./inventory/hosts
roles_path = ./roles
```

Hosts File

```
gowri@master-vm:~$ cat inventory/hosts
[web_servers]
192.168.153.131
192.168.153.128


[env]
staging
```

Webservers Directory

```
gowri@master-vm:~/roles/web_servers$ ls
handlers   tasks   template
```

Tasks -> main.yml

```
  GNU nano 6.2                              ./tasks/main.yml
- name: install apache2 package (Ubuntu)
  tags: apache,apache2,ubuntu
  apt:
    name:
      - apache2
      - libapache2-mod-php
    state: latest
  when: ansible_distribution == "Ubuntu"


- name: copy html file for site
  tags: apache,apache,apache2,httpd
  copy:
    src: index.html.j2
    dest: /var/www/html/index.html
  when: env == 'staging'

- name: Start and enable Apache
  service:
    name: apache2
    state: started
    enabled: yes
  tags: apache
```

Handlers -> main.yml

```
GNU nano 6.2                                    ./handlers/main.yml
- name: restart Apache 2 Package
  tags: apache,apache2,ubuntu
  apt:
    name:
      - apache2
      - libapache2-mod-php
    state: restarted
  when: apache2.changed
```

Templates -> index.html.j2

```
GNU nano 6.2                                    ./template/index.html.j2
<html>
<body>
<h1>Welcome to {{inventory_hostname }} in {{ env }}</h1>
</body>
</html>
```

Site.yml

```
GNU nano 6.2                                    site.yml *
---
- hosts: web_servers
  become: true
  tasks:
    - name: Ping webservers
      ping:
    - name: Install curl
      apt:
        name: curl
        state: present
  roles:
    - web_servers
```

Playbook run

```
TASK [Gathering Facts] **********************************************************************
[WARNING]: Platform linux on host 192.168.153.131 is using the discovered Python interpreter at /usr/bin/python3.10, but
future installation of another Python interpreter could change the meaning of that path. See
https://docs.ansible.com/ansible-core/2.17/reference_appendices/interpreter_discovery.html for more information.
ok: [192.168.153.131]
[WARNING]: Platform linux on host 192.168.153.133 is using the discovered Python interpreter at /usr/bin/python3.10, but
future installation of another Python interpreter could change the meaning of that path. See
https://docs.ansible.com/ansible-core/2.17/reference_appendices/interpreter_discovery.html for more information.
ok: [192.168.153.133]

TASK [web_servers : install apache2 package (Ubuntu)] **************************************
ok: [192.168.153.133]
ok: [192.168.153.131]

TASK [web_servers : copy html file for site] **********************************************
ok: [192.168.153.133]
ok: [192.168.153.131]

TASK [web_servers : Start and enable Apache] **********************************************
ok: [192.168.153.133]
ok: [192.168.153.131]

TASK [Ping webservers] ********************************************************************
ok: [192.168.153.133]
ok: [192.168.153.131]

TASK [Install curl] **********************************************************************
ok: [192.168.153.133]
ok: [192.168.153.131]

PLAY RECAP *******************************************************************************
192.168.153.131            : ok=6    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
192.168.153.133            : ok=6    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```