

PLAYBOOK TO INSTALL APACHE2 AND DEPLOY A STATIC APP ON AWS.

STEP 1: WRITE A PLAYBOOK TO INSTALL APACHE2 WEBSERVER.

apache.yml

- hosts: all

connection: ssh

become: true

tasks:

- name: Install apache2

ansible.builtin.apt:

name: apache2

state: present

- name: Start service apache2

ansible.builtin.service:

name: apache2

state: started

- name: Copy file with owner and permissions

ansible.builtin.copy:

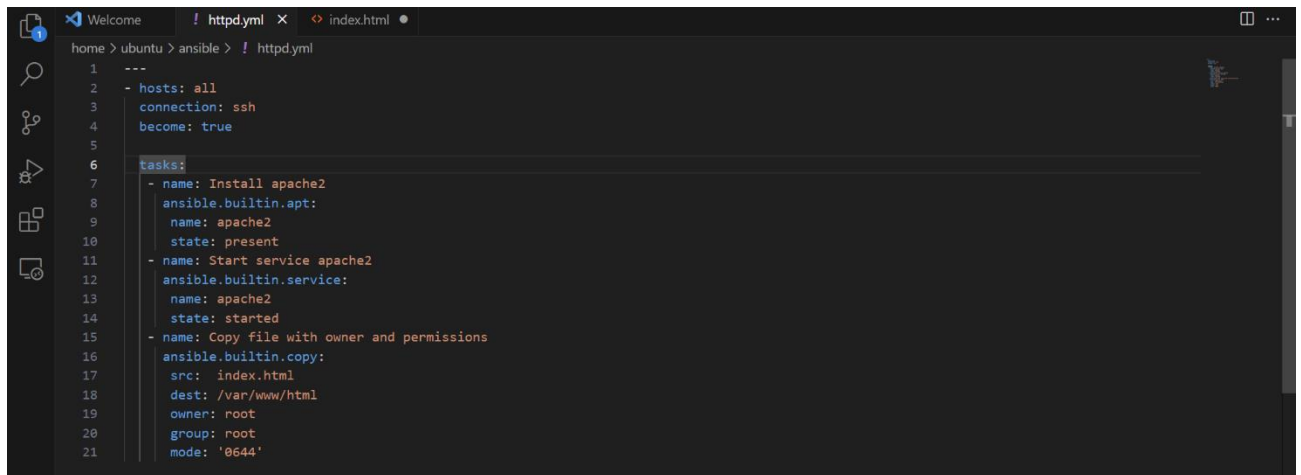
src: index.html

dest: /var/www/html

owner: root

group: root

mode: '0644'



```
1 ---
2 - hosts: all
3   connection: ssh
4   become: true
5
6   tasks:
7     - name: Install apache2
8       ansible.builtin.apt:
9         name: apache2
10        state: present
11    - name: Start service apache2
12      ansible.builtin.service:
13        name: apache2
14        state: started
15    - name: Copy file with owner and permissions
16      ansible.builtin.copy:
17        src: index.html
18        dest: /var/www/html
19        owner: root
20        group: root
21        mode: '0644'
```

STEP 2: CREAT A SIMPLE HTML PAGE

index.html

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>Welcome to Ansible</title>
```

```
<style>
```

```
body {
```

```
  background-color: #f4f4f4;
```

```
  display: flex;
```

```
  justify-content: center;
```

```
  align-items: center;
```

```
  height: 100vh;
```

```
  margin: 0;
```

```
  font-family: Arial, sans-serif;
```

```
}
```

```
h1 {
```

```
  color: #007acc;
```

```
  font-size: 3rem;
```

```
  text-shadow: 2px 2px #ffa500;
```

```

    }

</style>

</head>

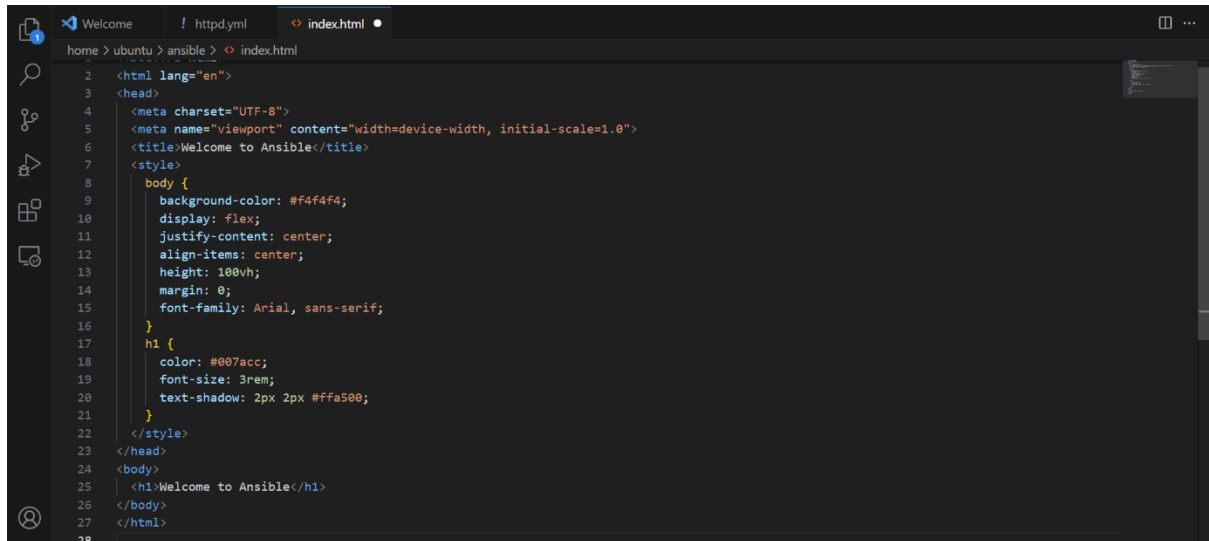
<body>

    <h1>Welcome to Ansible</h1>

</body>

</html>

```



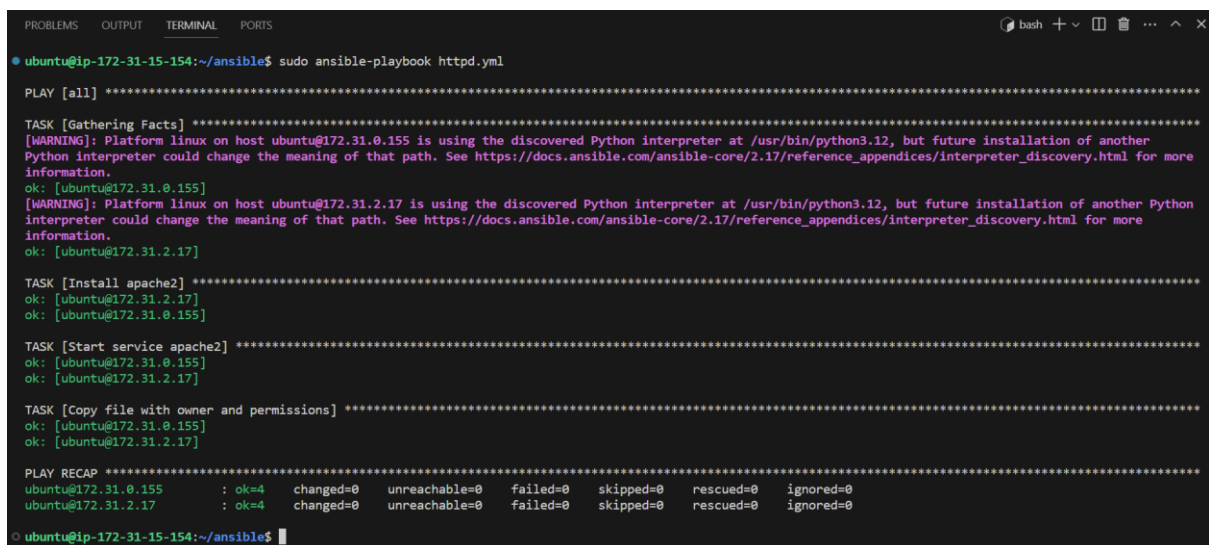
```

1 <html lang="en">
2 <head>
3   <meta charset="UTF-8">
4   <meta name="viewport" content="width=device-width, initial-scale=1.0">
5   <title>Welcome to Ansible</title>
6   <style>
7     body {
8       background-color: #f4f4f4;
9       display: flex;
10      justify-content: center;
11      align-items: center;
12      height: 100vh;
13      margin: 0;
14      font-family: Arial, sans-serif;
15    }
16    h1 {
17      color: #007acc;
18      font-size: 3rem;
19      text-shadow: 2px 2px #ffa500;
20    }
21  </style>
22 </head>
23 <body>
24   <h1>Welcome to Ansible</h1>
25 </body>
26 </html>
27
28

```

STEP 3: EXECUTE PLAYBOOK

ansible-playbook name-of-playbook



```

PLAY [all] *****

TASK [Gathering Facts] *****
[WARNING]: Platform linux on host ubuntu@172.31.0.155 is using the discovered Python interpreter at /usr/bin/python3.12, 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: [ubuntu@172.31.0.155]
[WARNING]: Platform linux on host ubuntu@172.31.2.17 is using the discovered Python interpreter at /usr/bin/python3.12, 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: [ubuntu@172.31.2.17]

TASK [Install apache2] *****
ok: [ubuntu@172.31.2.17]
ok: [ubuntu@172.31.0.155]

TASK [Start service apache2] *****
ok: [ubuntu@172.31.0.155]
ok: [ubuntu@172.31.2.17]

TASK [Copy file with owner and permissions] *****
ok: [ubuntu@172.31.0.155]
ok: [ubuntu@172.31.2.17]

PLAY RECAP *****
ubuntu@172.31.0.155 : ok=4  changed=0  unreachable=0  failed=0  skipped=0  rescued=0  ignored=0
ubuntu@172.31.2.17 : ok=4  changed=0  unreachable=0  failed=0  skipped=0  rescued=0  ignored=0

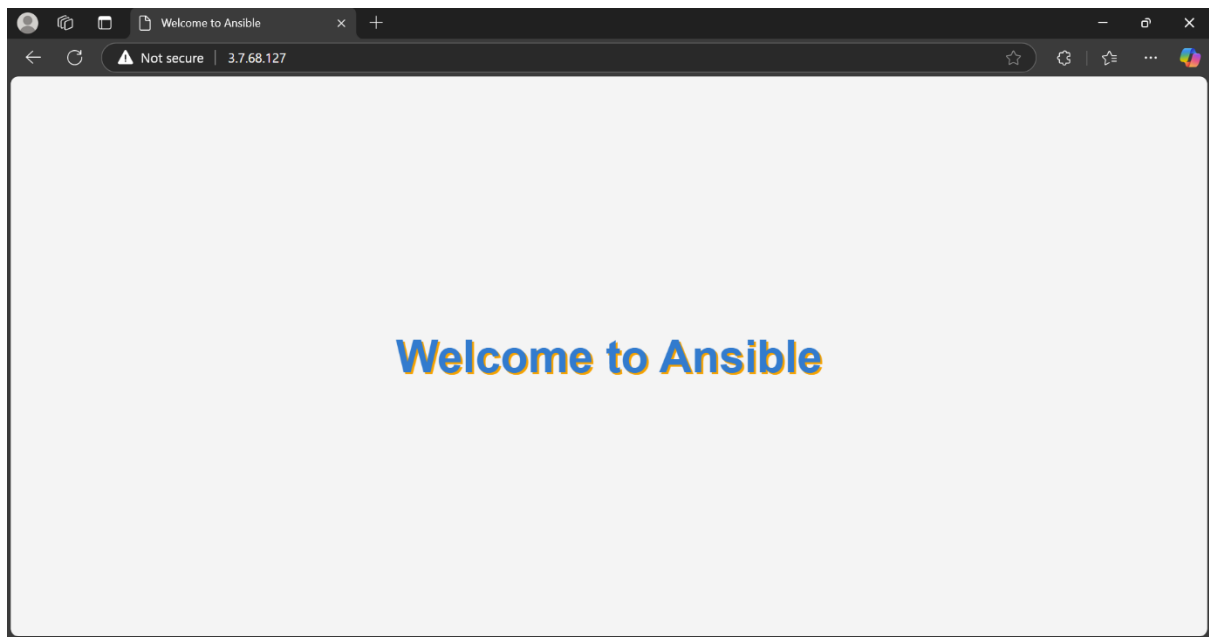
```

- In my case The state of task is ok Because I execute the playbook before. Ansible is Idempotent in nature. So it's always checks the state of the system is in desired or not. If not it execute the playbook.

STEP 4: ACCESS THE APPLICATION.

- Copy the public_ip of any managed nodes (instance) paste in browser along with port 80.

Note: Make sure that the port 80 should be allowed in Security groups.



Ref doc: <https://docs.ansible.com/ansible/latest/collections/ansible/builtin/index.html>