

EXP NO: 7	Create an Ansible playbook for a simple web application infrastructure
DATE:	

AIM: -

To Create an Ansible playbook for a simple web application infrastructure.

ALGORITHM / PROCEDURE: -

1. Create an Inventory File: Define your web servers in an Ansible inventory file with their IP addresses or hostnames.
2. Write the Playbook: Create a playbook in YAML format that installs Apache, deploys the web application, and starts the Apache service.
3. Install Apache: Use Ansible's apt module to install Apache on the web servers.
4. Deploy Web Application: Use the copy module to transfer your web application's files (e.g., index.html) to the server's web directory.
5. Ensure Apache is Running: Use the service module to ensure Apache is started and enabled on boot.

CODING: -

- name: Set up simple web application infrastructure

hosts: web_servers

become: true # Use sudo to execute tasks as a privileged user

tasks:

- name: Install Apache web server

apt:

name: apache2

state: present

update_cache: yes

- name: Copy web application files to the web server

copy:

src: /path/to/your/webapp/index.html # Local path to the web app

dest: /var/www/html/index.html # Destination on the server

- name: Ensure Apache service is running

service:

name: apache2

state: started

enabled: yes

OUTPUT: -

```
(.venv) Kris@MacBook-Air ansible % ansible-playbook install_nginx.yml
PLAY [all] *****
TASK [Gathering Facts] *****
ok: [35.88.141.34]
ok: [18.237.23.204]
ok: [54.186.118.180]
TASK [Install Updates] *****
ok: [54.186.118.180]
ok: [18.237.23.204]
ok: [35.88.141.34]
PLAY [all] *****
TASK [Gathering Facts] *****
ok: [35.88.141.34]
ok: [54.186.118.180]
ok: [18.237.23.204]
TASK [Install Nginx] *****
changed: [35.88.141.34]
changed: [54.186.118.180]
changed: [18.237.23.204]
TASK [Start Nginx] *****
changed: [35.88.141.34]
changed: [18.237.23.204]
changed: [54.186.118.180]
PLAY RECAP *****
18.237.23.204      : ok=5    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
35.88.141.34      : ok=5    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
54.186.118.180    : ok=5    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
(.venv) Kris@MacBook-Air ansible %
```

RESULT: -

Thus we successfully Created an Ansible playbook for a simple web application infrastructure.