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Course Name:Devops and Cloud Computing Course

Assignment Name: Ansible Assignment 2

Git Link:https://github.com/Hydra-Dev110/Ansible

Drive Link:
https://docs.google.com/document/d/18ayxm7VzaW316cG6XZGDAp_yFcpvYCGDGPMy2TqDSFo/edit?
usp=sharing

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1. Write Ansible playbooks to automate the setup and configuration of a web server (e.g., Apache or
Nginx)?
->

Inventory File
[web]
localhost ansible_connection=local

Ansible Playbook

File Name: apache.yml

- name: Install and configure Apache web server

  hosts: localhost

  become: yes

  tasks:

   - name: Install Apache

     apt:

       name: apache2

       state: present

       update_cache: yes

   - name: Start and enable Apache service

```yaml
    service:

      name: apache2

      state: started

      enabled: yes


  - name: Create index.html

    copy:

      dest: /var/www/html/index.html

      content: |

        <html>

        <head>

          <title>Ansible Web Server</title>

        </head>

        <body>

          <h1>Apache Web Server Configured Using Ansible</h1>

          <p>Ansible-2 Assignment</p>

        </body>

        </html>
```

Command to Execute the Playbook

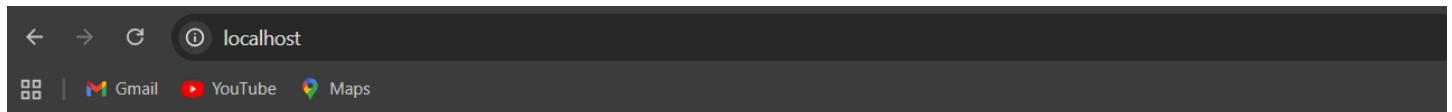**ansible-playbook -i inventory.ini apache.yml**

```
hydra_02@DESKTOP-1FI938H:/mnt/e/PW Assignment/Ansible$ ansible-playbook -i inventory.ini apache.yml

PLAY [Install and configure Apache web server] ***********************************************************

TASK [Gathering Facts] **********************************************************************************
[WARNING]: Platform linux on host localhost 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: [localhost]

TASK [Install Apache] ***********************************************************************************
changed: [localhost]

TASK [Start and enable Apache service] ****************************************************************
ok: [localhost]

TASK [Create index.html] ********************************************************************************
ok: [localhost]

PLAY RECAP **********************************************************************************************
localhost                  : ok=4    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

sudo systemctl status apache2

```
hydra_02@DESKTOP-1FI938H:/mnt/e/PW Assignment/Ansible$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
     Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
     Active: active (running) since Sun 2025-12-14 10:56:37 IST; 1min 28s ago
       Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 7359 (apache2)
      Tasks: 55 (limit: 6967)
     Memory: 11.1M
     CGroup: /system.slice/apache2.service
             ├─7359 /usr/sbin/apache2 -k start
             ├─7360 /usr/sbin/apache2 -k start
             └─7361 /usr/sbin/apache2 -k start

Dec 14 10:56:37 DESKTOP-1FI938H systemd[1]: Starting The Apache HTTP Server...
Dec 14 10:56:37 DESKTOP-1FI938H systemd[1]: Started The Apache HTTP Server.
```

https://localhost

← → C ⓘ localhost

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Apache Web Server Configured Using Ansible

Ansible-2 Assignment