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Course Name:Devops and Cloud Computing Course

Assignment Name: Ansible Assignment

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

Drive Link:

https://docs.google.com/document/d/1553by7GYOxdno4jWz_K3wSQRq-Gxun24CPmJIUZAJzg/edit?usp=sharing

1. Install and configure Ansible, Puppet, or Chef on a local or cloud environment. Write and execute basic configuration scripts.?

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Step 1: Install Ansible

Ansible was installed on the system using the following commands:

sudo apt update

sudo apt install ansible -y

ansible --version

```
hydra_02@DESKTOP-1FI938H:/mnt/e/PW Assignment/Ansible$ ansible --version
ansible [core 2.17.13]
  config file = None
  configured module search path = ['/home/hydra_02/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
  ansible python module location = /home/hydra_02/.local/pipx/venvs/ansible-core/lib/python3.10/site-packages/ansible
  ansible collection location = /home/hydra_02/.ansible/collections:/usr/share/ansible/collections
  executable location = /home/hydra_02/.local/bin/ansible
  python version = 3.10.12 (main, Nov  4 2025, 08:48:33) [GCC 11.4.0] (/home/hydra_02/.local/pipx/venvs/ansible-core/bin/python)
  jinja version = 3.1.6
  libyaml = True
```

Step 2: Create Ansible Playbook

A YAML playbook was created to install and start the Nginx service.

```
- name: Basic Ansible Playbook
```

```
hosts: localhost
```

```
become: yes
```

```
tasks:
```

```
  - name: Install nginx
```

```
    apt:
```

```
      name: nginx
```

```
      state: present
```

```
      update_cache: yes
```

```
  - name: Start nginx service
```

```
    service:
```

```
      name: nginx
```

```
      state: started
```

```
      enabled: yes
```

Step 3: Execute the Playbook

The playbook was executed using the following command:

ansible-playbook basic-playbook.yml

```
hydra_02@DESKTOP-1FI938H:/mnt/e/PW Assignment/Ansible$ ansible-playbook basic_playbook.yml
[WARNING]: No inventory was parsed, only implicit localhost is available
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'

PLAY [Basic Ansible Playbook] ****
TASK [Gathering Facts] ****
ok: [localhost] *

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

TASK [Start nginx service] ****
changed: [localhost]

PLAY RECAP ****
localhost : ok=3    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

Step 4: Verify Nginx Installation

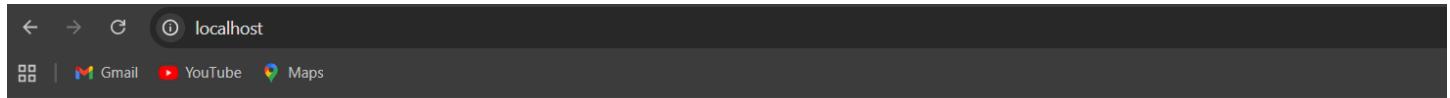
After execution, Nginx service status was verified:

systemctl status nginx

```
hydra_02@DESKTOP-1FI938H:/mnt/e/PW Assignment/Ansible$ systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
  Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)
  Active: active (running) since Sat 2025-12-13 21:56:29 IST; 5min ago
    Docs: man:nginx(8)
 Process: 200 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
 Process: 254 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
 Main PID: 261 (nginx)
   Tasks: 5 (limit: 6967)
   Memory: 15.2M
      CGroup: /system.slice/nginx.service
              ├─261 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
              ├─262 "nginx: worker process" ...
              ├─263 "nginx: worker process" ...
              ├─264 "nginx: worker process" ...
              └─265 "nginx: worker process" ...

Dec 13 21:56:29 DESKTOP-1FI938H systemd[1]: Starting A high performance web server and a reverse proxy server...
Dec 13 21:56:29 DESKTOP-1FI938H systemd[1]: Started A high performance web server and a reverse proxy server.
```

http://localhost



Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.