

Lab Exercise 12

Create Run Ansible Playbooks

To create and run Ansible Playbook.

Playbook Structure

Traget4.yml

```
---
- hosts: upes
  user: ansible
  become: yes
  connection: ssh
  tasks:
    - name: Debian Family
      command: apt-get install apache2 -y
      when: ansible os family == "Debian"
    - name: RedHat Family
      command: yum install httpd -y
      when: ansible os family == "RedHat"
```

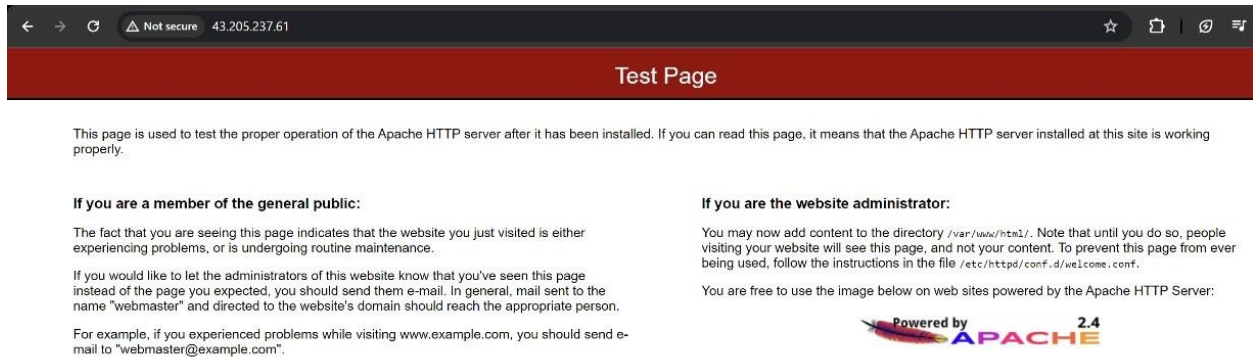
```
ssh: Could not resolve hostname service: Name or service not known
[root@ip-172-31-45-217 home]# service sshd restart
Redirecting to /bin/systemctl restart sshd.service
[root@ip-172-31-45-217 home]# history
  1  adduser ansible
  2  passwd ansible
  3  visudo
  4  vi /etc/ssh/sshd_config
  5  ssh service restart
  6  service sshd restart
  7  history
[root@ip-172-31-45-217 home]# which httpd
/usr/bin/which: no httpd in (/sbin:/bin:/usr/sbin:/usr/bin)
[root@ip-172-31-45-217 home]# which httpd
/sbin/httpd
[root@ip-172-31-45-217 home]#
```

```
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
   Active: inactive (dead)
     Docs: man:httpd.service(8)
[root@ip-172-31-45-217 home]# sudo systemctl start httpd
[root@ip-172-31-45-217 home]# sudo service httpd status
Redirecting to /bin/systemctl status httpd.service
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
   Active: active (running) since Wed 2024-04-17 06:48:12 UTC; 2s ago
     Docs: man:httpd.service(8)
  Main PID: 2685 (httpd)
    Status: "Processing requests..."
    CGroup: /system.slice/httpd.service
            └─2685 /usr/sbin/httpd -DFOREGROUND
              └─2686 /usr/sbin/httpd -DFOREGROUND
                └─2687 /usr/sbin/httpd -DFOREGROUND
                  └─2688 /usr/sbin/httpd -DFOREGROUND
                    └─2689 /usr/sbin/httpd -DFOREGROUND
                      └─2690 /usr/sbin/httpd -DFOREGROUND
```

```
Apr 17 06:48:12 ip-172-31-45-217.ap-south-1.compute.internal systemd[1]: Starting The Apache HTTP Server...
Apr 17 06:48:12 ip-172-31-45-217.ap-south-1.compute.internal systemd[1]: Started The Apache HTTP Server.
[root@ip-172-31-45-217 home]#
```

```
root@ip-172-31-45-217 home]# which httpd
usr/bin/which: no httpd in (/sbin:/bin:/usr/sbin:/usr/bin)
root@ip-172-31-45-217 home]# which httpd
/sbin/httpd
root@ip-172-31-45-217 home]# sudo service httpd status
Redirecting to /bin/systemctl status httpd.service
httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
   Active: inactive (dead)
     Docs: man:httpd.service(8)
root@ip-172-31-45-217 home]#
```

```
i 007ca44f790f72194 (Ansible node)
```



Running the Playbook: ansible-playbook my_playbook.yml

```
[ec2-user@ip-172-31-36-190 ~]$ su - ansible
Password:
Last login: Wed Apr 17 06:03:20 UTC 2024 on pts/0
[ansible@ip-172-31-36-190 ~]$ vi playbook1.yml
[ansible@ip-172-31-36-190 ~]$ ansible-playbook playbook1.yml

PLAY [upes] *****

TASK [Gathering Facts] *****
[WARNING]: Platform linux on host 172.31.45.217 is using the discovered Python interpreter at /usr/bin/python, but future installat
interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more in
ok: [172.31.45.217]

TASK [Un-Install HTTPD] *****

[ec2-user@ip-172-31-45-217 ~]$ su - ansible
Password:
Last login: Wed Apr 17 06:56:52 UTC 2024 from ip-172-31-36-190.ap-south-1.compute.internal on pts/0
[ansible@ip-172-31-45-217 ~]$ cd ..
[ansible@ip-172-31-45-217 home]$ su - ansible
Password:
Last login: Wed Apr 17 06:58:32 UTC 2024 on pts/0
[ansible@ip-172-31-45-217 ~]$ which httpd
/usr/sbin/httpd
[ansible@ip-172-31-45-217 ~]$
```

```

[ansible@ip-172-31-36-190 ~]$ vi playbook1.yml
[ansible@ip-172-31-36-190 ~]$ ansible-playbook playbook1.yml

PLAY [upes] *****

TASK [Gathering Facts] *****
[WARNING]: Platform linux on host 172.31.45.217 is using the discovered Python interpreter at /usr/bin/python, but future installation of another
interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.45.217]

TASK [Un-Install HTTPD] *****
changed: [172.31.45.217]

PLAY RECAP *****
172.31.45.217 : ok=2 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

[ansible@ip-172-31-36-190 ~]$ █

Apr 17 06:49:30 ip-172-31-45-217.ap-south-1.compute.internal systemd[1]: Stopping The Apache HTTP Server...
Apr 17 06:49:40 ip-172-31-45-217.ap-south-1.compute.internal systemd[1]: Stopped The Apache HTTP Server.
[ansible@ip-172-31-45-217 home]$ sudo systemctl start httpd
[ansible@ip-172-31-45-217 home]$ sudo service httpd status
Redirecting to /bin/systemctl status httpd.service
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
   Active: active (running) since Wed 2024-04-17 07:02:21 UTC; 2s ago
     Docs: man:httpd.service(8)
  Main PID: 3782 (httpd)
    Status: "Processing requests..."
   CGroup: /system.slice/httpd.service
           └─3782 /usr/sbin/httpd -DFOREGROUND
           └─3783 /usr/sbin/httpd -DFOREGROUND
           └─3784 /usr/sbin/httpd -DFOREGROUND
           └─3785 /usr/sbin/httpd -DFOREGROUND
           └─3786 /usr/sbin/httpd -DFOREGROUND
           └─3787 /usr/sbin/httpd -DFOREGROUND

Apr 17 07:02:20 ip-172-31-45-217.ap-south-1.compute.internal systemd[1]: Starting The Apache HTTP Server...
Apr 17 07:02:21 ip-172-31-45-217.ap-south-1.compute.internal systemd[1]: Started The Apache HTTP Server.
[ansible@ip-172-31-45-217 home]$ █

```
