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Lab Exercise 12– Create Run Ansible Playbooks

Objective:

To create and run Ansible Playbook.

1. **Playbook Structure:**
2.

```
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
[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/l
[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
edirecting 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 003ca44f799f72194 (Ansible node)
```

Test Page
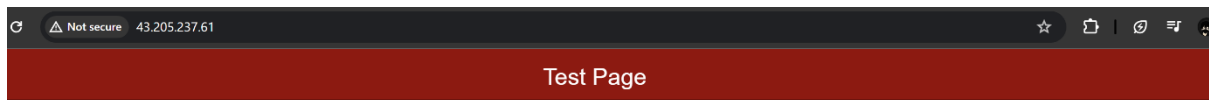
This page is used to test the proper operation of the Apache HTTP server after it has been installed. If you can read this page, it means that the Apache HTTP server installed at this site is working properly.

If you are a member of the general public:

The fact that you are seeing this page indicates that the website you just visited is either experiencing problems, or is undergoing routine maintenance.

If you would like to let the administrators of this website know that you've seen this page instead of the page you expected, you should send them e-mail. In general, mail sent to the name "webmaster" and directed to the website's domain should reach the appropriate person.

For example, if you experienced problems while visiting www.example.com, you should send e-mail to "webmaster@example.com".

If you are the website administrator:

You may now add content to the directory /var/www/html/. Note that until you do so, people visiting your website will see this page, and not your content. To prevent this page from ever being used, follow the instructions in the file /etc/httpd/conf.d/welcome.conf.

You are free to use the image below on web sites powered by the Apache HTTP Server:

Powered by APACHE 2.4

3. 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]$
```