# **School of Computer Science**

#### UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

## **DEHRADUN, UTTARAKHAND**



# System Monitoring and Configuration Management

Lab File

(2024)

for

6<sup>th</sup> Semester

## Submitted To:

Dr. Hitesh Kumar Sharma

# Submitted By:

Eksha Malhotra
B. Tech. CSE DevOp
[6<sup>h</sup> Semester]
Sap id- 500091532
Batch 1
R2142210300

### **LAB EXERCISE 12**

## **<u>Aim-</u>**Create Run Ansible Playbooks

#### **Steps**

- 1. Repeat the steps in Experiment 11 to create the initial setup
- 2. Test adhoc commands

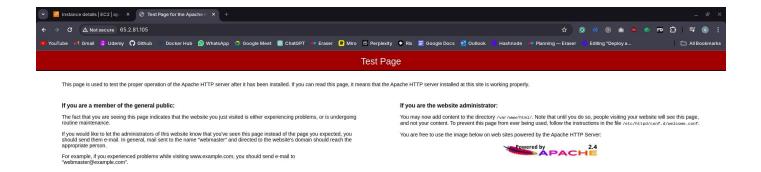
3. Install Apache server on node server using adhoc command

```
ansible@ip-172-31-5-83:~ Q = - בי ×

[ansible@ip-172-31-5-83 ~]$ which httpd
/usr/sbin/httpd
[ansible@ip-172-31-5-83 ~]$ [
```

#### 4. Start the httpd service using ansible

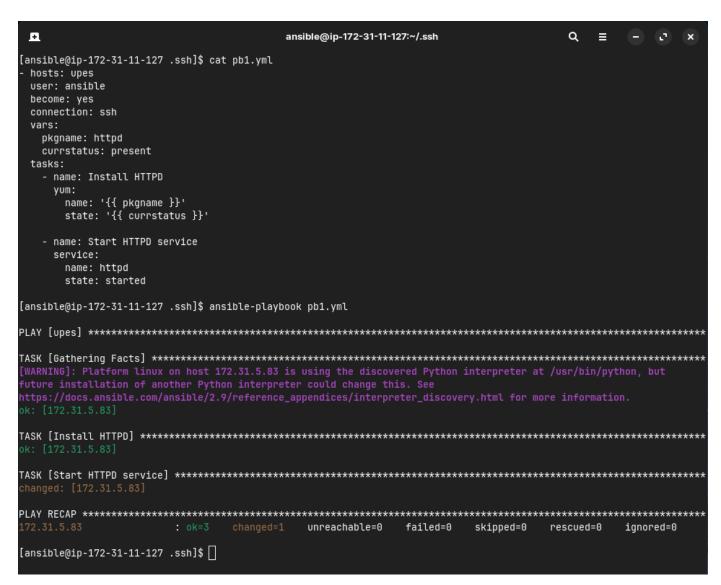
```
[ansible@ip-172-31-11-127 .ssh]$ ansible upes -a "sudo systemctl start httpd"
[WARNING]: Consider using 'become', 'become_method', and 'become_user' rather than running sudo
[WARNING]: Platform linux on host 172.31.5.83 is using the discovered Python interpreter at /usr/bin/python, but
future installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
172.31.5.83 | CHANGED | rc=0 >>
[ansible@ip-172-31-11-127 .ssh]$ [
```

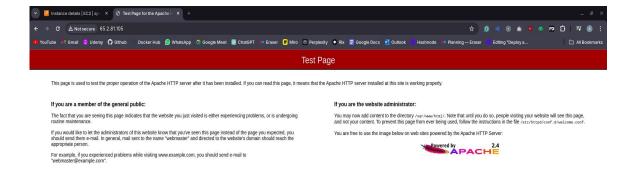


#### 5. Remove ansbile and then reinstall using ansible playbook

```
[ansible@ip-172-31-11-127 .ssh]$ ansible upes -a "sudo yum remove httpd -y"
[WARNING]: Consider using 'become', 'become_method', and 'become_user' rather than running sudo
[WARNING]: Platform linux on host 172.31.5.83 is using the discovered Python interpreter at /usr/bin/python, but
future installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
172.31.5.83 | CHANGED | rc=0 >>
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
---> Package httpd.x86_64 0:2.4.58-1.amzn2 will be erased
--> Processing Dependency: httpd-mmn = 20120211x8664 for package: mod_http2-1.15.19-1.amzn2.0.1.x86_64
--> Package mod_http2.x86_64 0:1.15.19-1.amzn2.0.1 will be erased
--> Finished Dependency Resolution

Dependencies Resolved
```





#### 6. Testing other playbooks

```
[ansible@ip-172-31-11-127 .ssh]$ nano pb2.yml
[ansible@ip-172-31-11-127 .ssh]$ cat pb2.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"
[ansible@ip-172-31-11-127 .ssh]$ ansible-playbook pb2.yml
[WARNING]: Consider using the yum module rather than running 'yum'. If you need to use command because yum is
insufficient you can add 'warn: false' to this command task or set 'command_warnings=False' in ansible.cfg to get rid
failed=0
                              unreachable=0
                                                       rescued=0
                                                               ignored=0
[ansible@ip-172-31-11-127 .ssh]$ [
```