School of Computer Science

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

DEHRADUN, UTTARAKHAND



System Monitoring and Configuration Management

Lab File

(2024)

for

6th Semester

Submitted To:

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Submitted By:

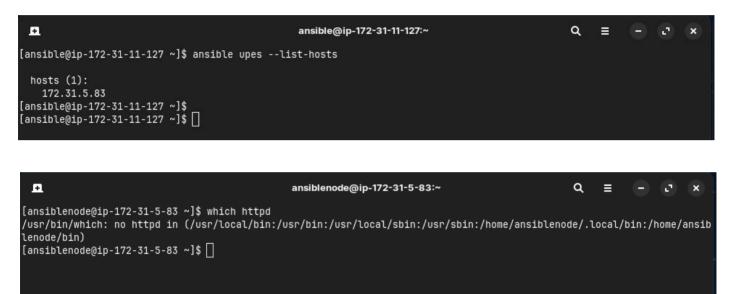
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LAB EXERCISE 12

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

Steps

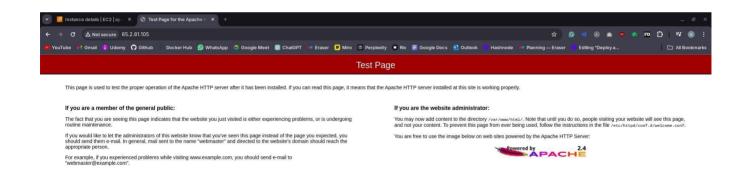
- 1. Repeat the steps in Experiment 11 to create the initial setup
- 2. Test adhoc commands



3. Install Apache server on node server using adhoc command

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]\$ [

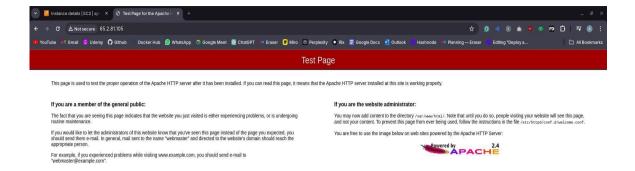


5. Remove ansbile and then reinstall using ansible playbook

```
[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
```

```
π
                    ansible@ip-172-31-11-127:~/.ssh
                                          Q
[ansible@ip-172-31-11-127 .ssh]$ cat pb1.yml
hosts: upes
user: ansible
become: yes
connection: ssh
vars:
 pkgname: httpd
 currstatus: present
tasks:
 - name: Install HTTPD
  yum:
   name: '{{ pkgname }}'
   state: '{{ currstatus }}'
 - name: Start HTTPD service
  service:
   name: httpd
   state: started
[ansible@ip-172-31-11-127 .ssh]$ ansible-playbook pb1.yml
unreachable=0
                             failed=0
                                   skipped=0
                                        rescued=0
                                              ignored=0
[ansible@ip-172-31-11-127 .ssh]$ [
```



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
: ok=2 changed=1 unreachable=0 failed=0 skipped=1 rescued=0 ignored=0
[ansible@ip-172-31-11-127 .ssh]$ [
```