## Experiment 12 Create Run Ansible Playbooks

### **Steps**

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

```
ansible@ip-172-31-11-127:~ Q = - - x [ansible@ip-172-31-11-127 ~]$ ansible upes --list-hosts

hosts (1):
    172.31.5.83
[ansible@ip-172-31-11-127 ~]$
[ansible@ip-172-31-11-127 ~]$
```

3. Install Apache server on node server using adhoc command

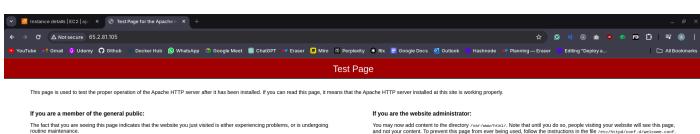


```
[ansible@ip-172-31-11-127 .ssh]$ ansible upes --list-hosts
hosts (1):
172.31.5.83
[ansible@ip-172-33-11-127 .ssh]$ ansible upes -a "sudo yum install httpd -y"
[WARNING]: Consider using 'become', 'become_method', and 'become_user' rather than running sudo
[WARNING]: Platform linux on host 172.31.5.83 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/2.7/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://86_64 0:2.4.58-1.amzn2 will be installed
--> Processing Dependency: httpd-filesystem = 2.4.58-1.amzn2 for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: libapr-i.so.0()(64bit) for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: libapr-u.so.0()(64bit) for package: httpd-2.4.58-1.amzn2.x86_64
--> Package apr-x86_64 0:1.6.3-1.amzn2.will be installed
--> Package model-logos-httpd.noarch 0:2.4.58-1.amzn2 will be installed
--> Package model-logos-httpd.noarch 0:2.4.58-1.amzn2.will be ins
```

# ansible@ip-172-31-5-83:~ Q ≡ - ∵ × [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]\$ [



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

Powered by

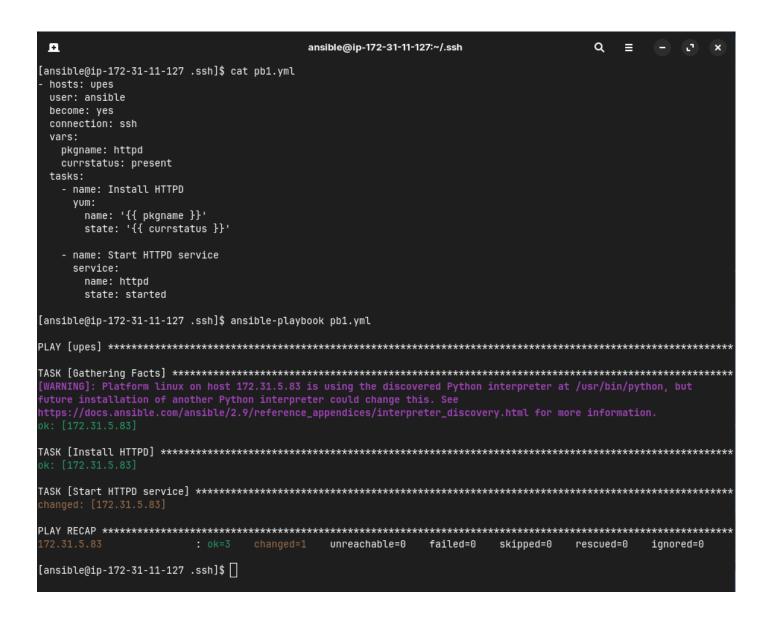
2.4

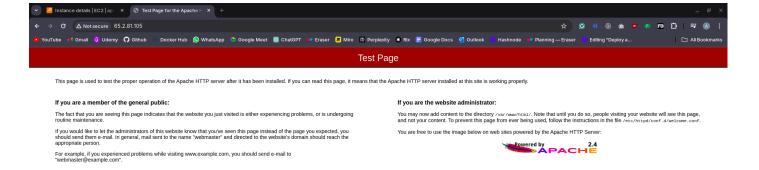
APACHE

#### 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
unreachable=0
                                       failed=0
                                                     rescued=0
                                                             ignored=0
[ansible@ip-172-31-11-127 .ssh]$
```