# **Experiment 12 – Create and 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 = - ر ×

[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

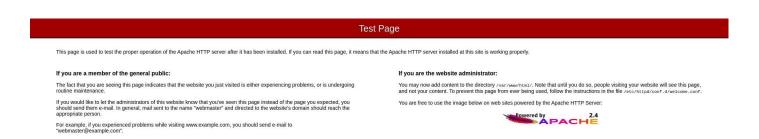
```
ansiblenode@ip-172-31-5-83:~ Q = - בּי ×

[ansiblenode@ip-172-31-5-83 ~]$ which httpd
/usr/bin/which: no httpd in (/usr/local/bin:/usr/local/sbin:/usr/sbin:/home/ansiblenode/.local/bin:/home/ansiblenode/bin)
[ansiblenode@ip-172-31-5-83 ~]$ [
```

```
[amsible@ip-172-31-11-127 .ssh]$ ansible upes --list-hosts
hosts (1):
172.31.5.83
[ansible@ip-172-31-11-127 .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/2.9/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
--> Processing Dependency: httpd-filesystem = 2.4.58-1.amzn2 for package: httpd-2.4.58-1.amzn2.x86_64
-> 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: system-logos-httpd for package: httpd-2.4.58-1.amzn2.x86_64
-> Processing Dependency: llapr-1.so.0()(64bit) for package: httpd-2.4.58-1.amzn2.x86_64
-> Processing Dependency: llapr-till-bid (64) for package: httpd-2.4.58-1.amzn2.x86_64
-> Processing Dependency: llapr-till-bid (64) for package: httpd-2.4.58-1.amzn2.x86_64
-> Processing Dependency: llapr-till-bid (86-64) = 1.6.3-1.amzn2.0.1 for package: apr-util-1.6.3-1.amzn2.0.1.x86_64
-> Package apr.x86_64 0:1.7.2-1.amzn2 will be installed
-> Package apr.till.x86_64 0:1.6.3-1.amzn2.0.1 will be installed
-> Package generic-logos-httpd.noarch 0:18.0.9-4.amzn2.0.1 will be installed
-> Package mod_http2.x86_64 0:1.6.3-1.amzn2.0.1 will be installed
-> Package amd_http2.x86_64 0:1.6.3-1.amzn2.0.1 will be installed
-> Package
```

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

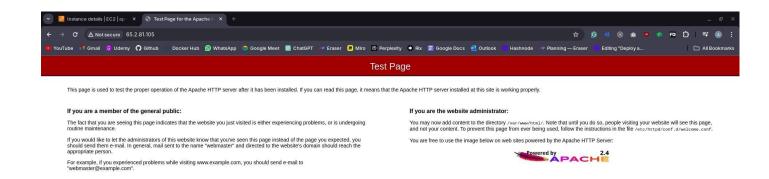
[ansible@ip-172-31-11-127 .ssh]\$ ansible upes -a "sudo systemctl start httpd"
[WARNING]: Consider using 'become', 'become\_method', and 'become\_user' rather than running sudo
[WARNING]: Platform linux on host 172.31.5.83 is using the discovered Python interpreter at /usr/bin/python, but
future installation 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
--> Running transaction check
---> Package mod_http2.x86_64 0:1.15.19-1.amzn2.0.1 will be erased
--> Finished Dependency Resolution
```

```
ansible@ip-172-31-11-127:~/.ssh
[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
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.
: ok=3 changed=1 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
of this message.
changed: [172.31.5.83]
unreachable=0 failed=0 skipped=1
                                                       rescued=0
                                                               ignored=0
[ansible@ip-172-31-11-127 .ssh]$
```