Lab Exercise 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:~ Q ≡ - x 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

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

[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)

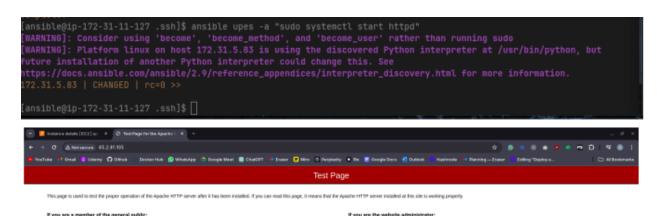
[ansiblenode@ip-172-31-5-83 ~]$ [
```

```
[ansible@ip-172-31-11-127 .ssh]$ ansible upes --list-hosts hosts (1):
172.31.5.83
[ansible@ip-172-331-11-127 .ssh]$ ansible upes -a "sudo yum install httpd -y"
[WARRING]: Consider using 'become', 'become_method', and 'become_user' rather than running sudo
[WARRING]: 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 installed
--> 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: httpd-filesystem for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: solt-inme.types for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: lbapr-1.so.@()(64bit) for package: httpd-2.4.58-1.amzn2.x86_64
--> Processing Dependency: apr-util-bdb(x86-64) = 1.6.3-1.amzn2.8.1 for package: apr-util-1.6.3-1.amzn2.8.1.x86_64
--> Package apr-util.x86_64 0:1.6.3-1.amzn2.0.1 will be installed
--> Package peneinc-togges-httpd.noarch 0:2.4.58-1.amzn2 will be installed
--> Package peneinc-togges-httpd.noarch 0:2.4.58-1.amzn2 will be installed
--> Package mailcap.noarch 0:2.4.4.58-1.amzn2 will be installed
--> Package peneinc-togges-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



You may now add content to the directory /nor hashing.in. 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 /non/no-pul/nonF shinetowner.com?

APACHE

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

If you would like to let the administrators of this vectorize 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 "webmisser" and directed to the websters domain should reach the appropriate promote.

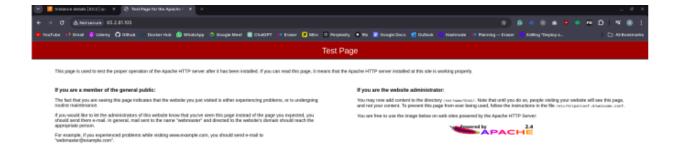
For example, if you experienced problems while violing www.example.com, you should send e-mail to

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

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
```

```
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
[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.
bk: [172.31.5.83]
: 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
   - 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]: 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.
[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]$ 🗌
```