Experiment 12

Aim: ansible commands and playbook

• Check the list of hosts

```
[ansible@ip-172-31-47-88 .ssh]$ ansible upes --list-hosts
  hosts (1):
    172.31.41.239
[ansible@ip-172-31-47-88 .ssh]$
```

• Now connect to the node and check the version of httpd

```
[root@ip-172-31-41-239 ansible]# which httpd
/usr/bin/which: no httpd in (/sbin:/bin:/usr/sbin:/usr/bin)
[root@ip-172-31-41-239 ansible]#
```

• Install server with he help of adhoc commands
• Again check on the node

```
[ansible@ip-172-31-47-88 .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 172.31.41.239 is using the discovered Python interpreter at /usr/bin/python,
interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_disco
172.31.41.239 | 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
```

```
[root@ip-172-31-41-239 ansible]# which httpd
/sbin/httpd
[root@ip-172-31-41-239 ansible]#
```

Test Page

This page is used to test the proper operation of the Apache HTTP server after it has been installed. If you can read this page, it means that the Apache HTTP server installed at this site is working properly.

If you are a member of the general public:

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

If you would like to let the administrators of this website 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 "webmaster" and directed to the website's domain should reach the appropriate person.

For example, if you experienced problems while visiting www.example.com, you should send e-mail to "webmaster@example.com".

If you are the website administrator:

You may now add content to the directory /var/www/html/. 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 /etc/httpd/conf.d/welcome.conf.

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

Powered by APACHE 2.4

- Now remove the https

```
[ansible@ip-172-31-47-88 .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 172.31.41.239 is using the discovered Python interpreter at /usr/bin/python,
interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_disco
172.31.41.239 | 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

Dependencies Resolved

================================================================================
 Package            Arch          Version                  Repository        Size
================================================================================
Removing:
 httpd              x86_64        2.4.58-1.amzn2           @amzn2-core       4.2 M
Removing for dependencies:
 mod_http2          x86_64        1.15.19-1.amzn2.0.1      @amzn2-core       382 k

Transaction Summary
================================================================================
```
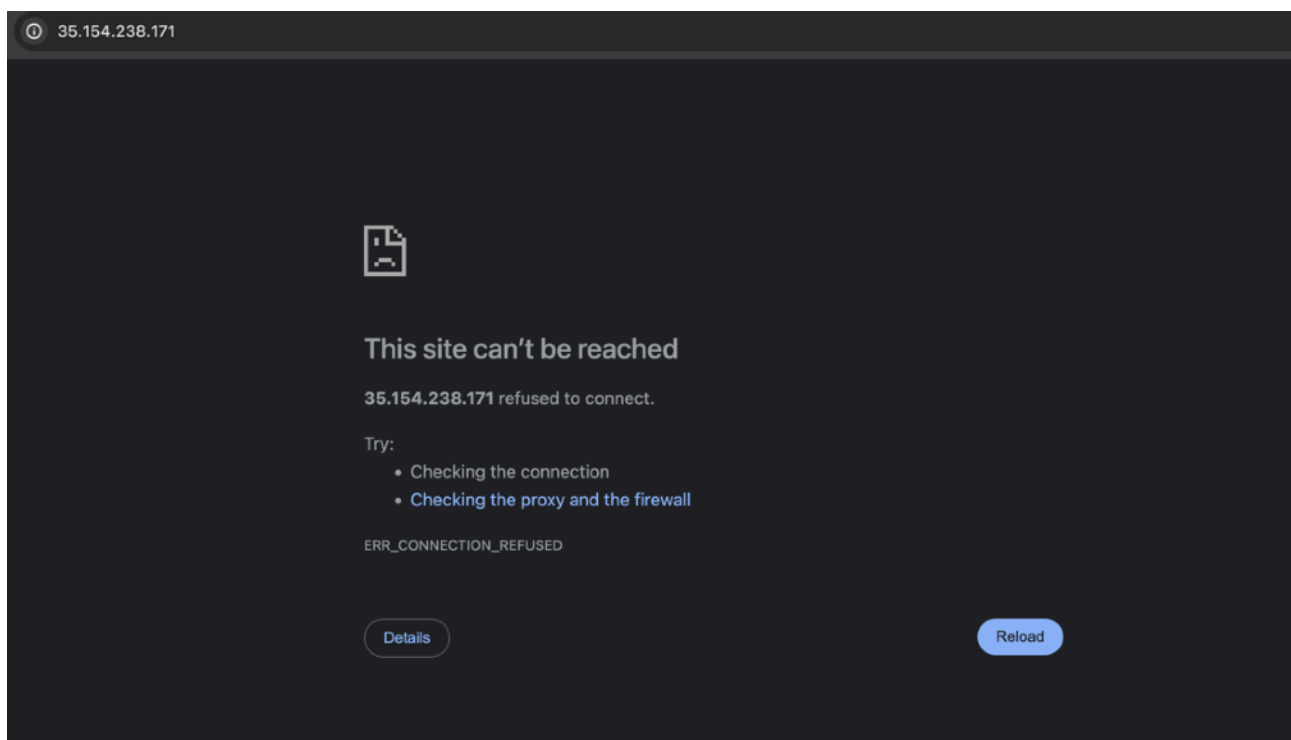

- Create a playbook1.yml file

```yaml
- hosts: upes
  user: ansible
  become: yes
  connection: ssh
  tasks:
    - name: Install HTTPD
      action: yum name=httpd state=present
```

```
[ansible@ip-172-31-47-88 ~]$ vi playbook1.yml
[ansible@ip-172-31-47-88 ~]$ ansible-playbook playbook1.yml

PLAY [upes] *************************************************************************************

TASK [Gathering Facts] *************************************************************************
[WARNING]: Platform linux on host 172.31.41.239 is using the discovered Python interpreter at /usr/bin/python, but fut
interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.htm
ok: [172.31.41.239]

TASK [Install HTTPD] ***************************************************************************
changed: [172.31.41.239]

PLAY RECAP *************************************************************************************
172.31.41.239              : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

[ansible@ip-172-31-47-88 ~]$
```

• Verify on node

```
[ec2-user@ip-172-31-41-239 ~]$ service httpd status
Redirecting to /bin/systemctl status httpd.service
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
   Active: inactive (dead)
     Docs: man:httpd.service(8)

Apr 26 10:05:33 ip-172-31-41-239.ap-south-1.compute.internal systemd[1]: Starting The Apache HTTP Server...
Apr 26 10:05:34 ip-172-31-41-239.ap-south-1.compute.internal systemd[1]: Started The Apache HTTP Server.
Apr 26 10:06:15 ip-172-31-41-239.ap-south-1.compute.internal systemd[1]: Stopping The Apache HTTP Server...
Apr 26 10:07:05 ip-172-31-41-239.ap-south-1.compute.internal systemd[1]: Stopped The Apache HTTP Server.
```