In this lab exercise you will use below hosts. Please note down some details about these hosts as given below:

student-node: This host will act as an Ansible master node where you will create playbooks, inventory, roles etc and you will be running your playbooks from this host itself.

node01:- This host will act as an Ansible client/remote host where you will setup/install some stuff using Ansible playbooks. Below are the SSH credentials for this host:

User: bob

Password: caleston123

node02:- This host will also act as an Ansible client/remote host where you will setup/install some stuff using Ansible playbooks. Below are the SSH credentials for this host:

User: bob

Password: caleston123

Which of the following formats is the Ansible playbook written in? – yaml

How many tasks are there under Setup apache Ansible play? 2

---

name: Setup apache hosts: webserver

tasks:

- name: install httpd

yum:

name: httpd state: installed - name: Start service

service:

name: httpd state: started

name: Setup tomcat hosts: appserver

tasks:

- name: install httpd

yum:

name: tomcat state: installed - name: Start service

service:

name: tomcat state: started

If we use the following inventory, on which hosts will Ansible install the httpd package using the given playbook? – web1 and web2

[webserver] web1 web2

[appserver]

```
app1
app2
app3
```

---

 name: Setup apache hosts: webserver tasks:

- name: install httpd

yum:

name: httpd state: installed

 name: Setup tomcat hosts: appserver

tasks:

- name: install httpd

yum:

name: tomcat state: installed

Which of the following commands can you use to run an Ansible playbook named install.yaml? ansible-playbook install.yaml

Update the name of the play in /home/bob/playbooks/playbook.yaml playbook to Execute a date command on localhost.

```
[bob@student-node playbooks]$ cat playbook.yaml
name: 'Execute a date command on localhost'
hosts: localhost
become: yes
tasks:
 - name: 'Execute a date command'
  command: date
[bob@student-node playbooks]$ ansible-playbook -i inventory playbook.yaml
ok: [localhost]
changed: [localhost]
unreachable=0 failed=0 skipped=0 rescued=0
localhost
           : ok=2 changed=1
```

Update the playbook /home/bob/playbooks/playbook.yaml to add a task name Task to display hosts file for the existing task.

We have reset the playbook /home/bob/playbooks/playbook.yaml, now update it to add another task. The new task must execute the command cat /etc/resolv.conf and set its name to Task to display nameservers.

```
[bob@student-node playbooks]$ cat playbook.yaml
---
- name: 'Execute two commands on localhost'
hosts: localhost
become: yes
tasks:
    - name: 'Execute a date command'
    command: date
    - name: 'Task to display nameservers'
    command: cat /etc/resolv.conf
[bob@student-node playbooks]$
```

So far, we have been running all tasks on localhost. We would now like to run these tasks on node01, this host is already defined in /home/bob/playbooks/inventory file. Update the playbook /home/bob/playbooks/playbook.yaml to run the tasks on the node01 host

```
[bob@student-node playbooks]$ cat inventory
node01 ansible_host=node01 ansible_ssh_pass=caleston123
node02 ansible_host=node02 ansible_ssh_pass=caleston123
[web_nodes]
node01
node02
[bob@student-node playbooks]$ cat playbook.yaml
name: 'Execute two commands on node01'
 hosts: node01
  become: yes
  tasks:
    - name: 'Execute a date command'
      command: date
    - name: 'Task to display hosts file'
      command: 'cat /etc/hosts'
[bob@student-node playbooks]$
```

Refer to the /home/bob/playbooks/inventory file. We would like to run the /home/bob/playbooks/playbook.yaml on all servers defined under web\_nodes group.

Note: Use the group name in playbook as defined in the inventory file.

```
[bob@student-node playbooks]$ vi playbook.yaml
[bob@student-node playbooks]$ cat playbook.yaml
---
- name: 'Execute two commands on web_nodes'
hosts: web_nodes
become: yes
tasks:
    - name: 'Execute a date command'
    command: date
    - name: 'Task to display hosts file'
    command: 'cat /etc/hosts'
[bob@student-node playbooks]$ ■
```

Update the /home/bob/playbooks/playbook.yaml to add a new play named Execute a command on node02, and a task under it to execute cat /etc/hosts command on node02 host, name the task Task to display hosts file on node02.

Refer to the given inventory file.

```
[bob@student-node playbooks]$ cat playbook.yaml

    name: 'Execute two commands on node01'

  hosts: node01
  become: yes
 tasks:
    - name: 'Execute a date command'
      command: date
    - name: 'Task to display hosts file on node01'
      command: 'cat /etc/hosts'

    name: 'Execute a command on node02'

  hosts: node02
  become: yes
  tasks:

    name: 'Task to display hosts file on node02'

       command: 'cat /etc/hosts'
[bob@student-node playbooks]$
```