Assignment-2 Marks: 30

Create 2 new ansible nodes as per below specifications

OS	Host name	IP
ubuntu 18.04	puneet-node-1	192.168.56.10
ubuntu 18.04	puneet-node-2	192.168.56.20

## Create a single playbook to install

- apache2 on 192.168.56.10 with default webpage puneet.html with the contents "Welcome Puneet to the world of Apache with Ansible" with handlers and notify.

- nginx on 192.168.56.20

```
Vagrant.configure("2") do |config|
config.vm.define "v", primary: true do |v|
v.vm.box = "bento/ubuntu-18.04"
v.vm.hostname = 'lakshmi-node1'
v.vm.network :private_network, ip: "192.168.56.10"

v.vm.provider :virtualbox do |v|
v.customize ["modifyvm", :id, "--name", "lakshmi-node1"]
v.customize ["modifyvm", :id, "--memory", 1024]
v.customize ["modifyvm", :id, "--cpus", 1]
end
end
end
```

```
Vagrant.configure("2") do |config|
 config.vm.define "v", primary: true do |v|
   v.vm.box = "bento/ubuntu-18.04"
   v.vm.hostname = 'lakshmi-node2'
   v.vm.network :private network, ip: "192.168.56.20"
   v.vm.provider :virtualbox do |v|
     v.customize ["modifyvm", :id, "--name", "lakshmi-node2"]
     v.customize ["modifyvm", :id, "--memory", 1024]
     v.customize ["modifyvm", :id, "--cpus", 1]
end
nd
 oot@ansible-master:~/.ssh# ssh-copy-id vagrant@lakshmi-node1
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/root/.ssh/id_rsa.pub"
The authenticity of host 'lakshmi-node1 (192.168.56.10)' can't be established.
ECDSA key fingerprint is SHA256:S8skWuZUWby5A9neBWzEZ1020b6+Bf86kWzduvMz6/E.
Are you sure you want to continue connecting (yes/no)? yes
usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out an
 usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted no
vagrant@lakshmi-node1's password:
Number of key(s) added: 1
Now try logging into the machine, with: "ssh 'vagrant@lakshmi-nodel'"
root@ansible-master:~/.ssh# ssh-copy-id vagrant@lakshmi-node2
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/root/.ssh
The authenticity of host 'lakshmi-node2 (192.168.56.20)' can't be establ:
ECDSA key fingerprint is SHA256:S8skWuZUWby5A9neBWzEZlO20b6+Bf86kWzduvMz6
Are you sure you want to continue connecting (yes/no)? yes
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are
vagrant@lakshmi-node2's password:
Number of key(s) added: 1
Now try logging into the machine, with: "ssh 'vagrant@lakshmi-node2'"
and check to make sure that only the key(s) you wanted were added.
root@ansible-master:~/.ssh# cd ..
root@ansible-master:~# ssh vagrant@lakshmi-node2
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 4.15.0-147-generic x86 64)
 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support:
                   https://ubuntu.com/advantage
  System information as of Sat Sep 11 10:00:58 UTC 2021
  System load: 0.0
                                     Processes:
  Usage of /: 2.5% of 61.80GB Users logged in:
  Memory usage: 10% IP address for eth0: 10.0.2.15
  Swap usage: 0%
                                    IP address for eth1: 192.168.56.20
This system is built by the Bento project by Chef Software
More information can be found at https://github.com/chef/bento
Last login: Sat Sep 11 09:53:24 2021 from 10.0.2.2
```

```
root@ansible-master:~# ssh vagrant@lakshmi-node1
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 4.15.0-147-generic x86_64)

* Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/advantage

System information as of Sat Sep 11 10:03:49 UTC 2021

System load: 0.0 Processes: 92
Usage of /: 2.5% of 61.80GB Users logged in: 1
Memory usage: 10% IP address for eth0: 10.0.2.15
Swap usage: 0% IP address for eth1: 192.168.56.10

This system is built by the Bento project by Chef Software
More information can be found at https://github.com/chef/bento
Last login: Sat Sep 11 09:53:25 2021 from 10.0.2.2
vagrant@lakshmi-node1:~$ __

## 192.168.1.110
```

# ## 192.168.1.110 [dev] lakshmi-node1 ansible\_ssh\_user=vagrant [test] lakshmi-node2 ansible\_ssh\_user=vagrant

```
192.168.56.101 ansible-node1
192.168.56.103 ansible-node2
3.109.59.196 ec2
192.168.56.102 tomcat
192.168.56.10 lakshmi-node1
192.168.56.20 lakshmi-node2
```

root@ansible-master:~/ansible\_code# ansible-playbook sampleplaybook.yml

```
hosts : dev
become: true
name: sampleplaybook
tasks:
 - name: Install Apache
   apt:
    name: apache2
       state: latest
   notify: host static webpage
handlers:
 - name: host static webpage
   script: lakshmi.sh
hosts : test
become: true
name: sampleplaybook
tasks:
 - name: Install Nginx
  apt:
       name: nginx
       state: latest_
```

```
TASK [Gathering Facts] ***************************
TASK [Install Apache] ********************************
hanged: [lakshmi-node1]
TASK [add website page]
                   ****************
hanged: [lakshmi-node1]
```

192.168.56.10



### **Apache2 Ubuntu Default Page**

### It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should replace this file (located at /var/www/html/index.html) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

### Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is fully documented in /usr/share/doc/apache2/README.Debian.gz. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the manual if the apache2-doc package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/
 -- apache2.conf
 `-- ports.conf
-- mods-enabled
       |-- *.Load
```





← → C • Not secure | 192.168.56.10/1.html

# Welcome lakshmi to the world of Apache with Ansible

Not secure | 192.168.56.20

# Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to <a href="nginx.org">nginx.org</a>. Commercial support is available at nginx.com.

Thank you for using nginx.