For task-2

1.

- I. Oracle vm virtualbox is downloaded.
- II. Installed ubuntu 22.04 using vagrantfile as below.

Have set static ip which: 192.168.56.10

2.

I. Installing ansible on host machine

\$ sudo apt-add-repository ppa:ansible/ansible

\$ sudo apt update

\$ sudo apt install ansible

3.

ssh to vm successful

```
drggtm@Ubuntu:-/.ssh$ ssh-copy-id -i -/.ssh/id_rsa.pub vagrant@192.168.56.10
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/drggtm/.ssh/id_rsa.pub"
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys vagrant@192.168.56.10's password:
Permission denied, please try again.
vagrant@192.168.56.10's password:

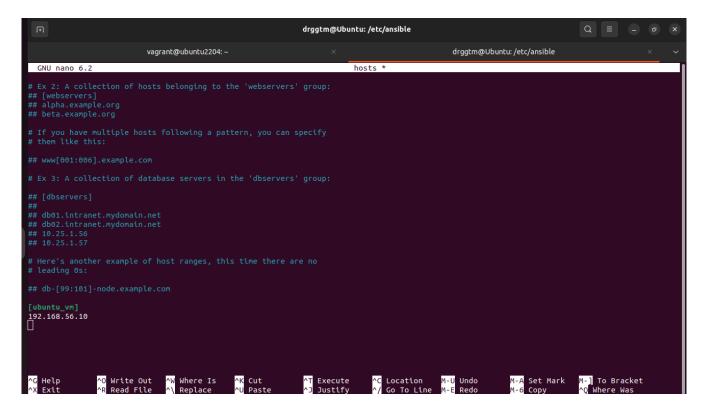
Number of key(s) added: 1

Now try logging into the machine, with: "ssh 'vagrant@192.168.56.10'"
and check to make sure that only the key(s) you wanted were added.

drggtm@Ubuntu:-/.ssh$
```

•

4. Added new host in /etc/ansible/hosts as (ubuntu vm)



5. Added ssh keys using for access

6. Made a two file a. inventory.ini with

```
drggtm@Ubuntu:~/Hazesoft_Internship/T2/HAZESOFT-T1/t2-final$ cat inventory.ini
[ubuntu_vm]
192.168.56.10 ansible_user=vagrant
```

## b. deploy.yml for ansible palybook. cat deploy.yml - name: Build and run Docker application hosts: ubuntu vm gather facts: false become: true tasks: - name: Install Docker dependencies apt: name: - apt-transport-https - ca-certificates - curl - gnupg - software-properties-common state: present - name: Add Docker GPG key apt key: url: https://download.docker.com/linux/ubuntu/gpg state: present - name: Add Docker repository apt repository: repo: deb [arch=amd64] https://download.docker.com/linux/ubuntu focal stable state: present - name: Update apt cache apt: update cache: yes cache valid time: 3600 - name: Install Docker apt: name: docker-ce state: present - name: Install Python and pip apt: name: - python3 - python3-pip state: present - name: Upgrade pip

pip:

name: pip state: latest

- name: Install Docker Compose

pip:

name: docker-compose

- name: Clone repository

git:

repo: https://github.com/drggtm/HAZESOFT-T1.git

dest: /opt/task version: main

- name: Build Docker image

command: docker build -t task1 /opt/task

args:

chdir: /opt/task

- name: Run Docker container

command: docker run -d -p 9000:80 --name task2 task1

TO RUN THESE: \$ ansible-playbook -i inventory.ini deploy.yml --ask-become-pass

7. some errors encountered during intitial stages as..

```
skipped=0 rescued=0
               : ok=1 changed=0 unreachable=0
                                                             ianored=0
drggtm@Ubuntu:~/Hazesoft_Internship/T2/HAZESOFT-T1/t2-final$ ansible-playbook -i inventory.ini deploy.yml --ask-become-pass
BECOME password:
: ok=1 changed=0 unreachable=0 failed=1 skipped=0 rescued=0 ignored=0
drggtm@Ubuntu:-/Hazesoft_Internship/T2/HAZESOFT-T1/t2-final$ nano deploy.yml
drggtm@Ubuntu:-/Hazesoft_Internship/T2/HAZESOFT-T1/t2-final$ ansible-playbook -i inventory.ini deploy.yml --ask-become-pass
has tinstate bucker upeniodices;

changed: [192.168.56.10] => (item=apt-transport-https)

ok: [192.168.56.10] => (item=ca-certificates)

ok: [192.168.56.10] => (item=curl)

ok: [192.168.56.10] => (item=gnupg)

ok: [192.168.56.10] => (item=software-properties-common)
[MARNING]: Module remote_tmp /root/.ansible/tmp did not exist and was created with a mode of 0700, this may cause issues when running as another user. To avoid this, create the remote_tmp dir with the correct permissions manually changed: [192.168.56.10]
```

•

chdir: /opt/task
<pre>drggtm@Ubuntu:~/Hazesoft_Internship/T2/HAZESOFT-T1/t2-final\$ sudo nano deploy.yml drggtm@Ubuntu:~/Hazesoft_Internship/T2/HAZESOFT-T1/t2-final\$ ansible-playbook -i inventory.ini deploy.ymlask-become-pass BECOME password:</pre>
PLAY [Deploy Dockerized Application] ************************************
TASK [Install Docker dependencies] ************************************
TASK [Add Docker GPG key] ************************************
TASK [Add Docker repository] ************************************
TASK [Update apt cache] ************************************
TASK [Install Docker] ************************************
TASK [Install Docker Compose] ************************************
PLAY RECAP ************************************
drggtm@Ubuntu:~/Hazesoft_Internship/T2/HAZESOFT-T1/t2-final\$ [



```
drogtm@Ubuntur./htazesoft_inter... × drogtm@Ubuntur./phazesoft_inter... × drogtm@Ubuntur/opt v v - 55336849246450 ** && echo ansible-tmp-1687163170.7614326-12303-55336849246450 ** echo /home/vagrant/.ansible/tmp/ansible-tmp-1687163170.7614326-12303-55336849246450 ** echo /home/vagrant/.ansible/tmp/ansible-tmp-1687163170.7614326-12303-553368492460 ** echo /home/vagrant/.ansible/tmp/ansible-tmp-1687163170.7614326-12303-15308492460 ** echo /home/vagrant/.ansible/tmp/ansible-tmp-1687163170.7614326-12303-15308492460 ** echo /home/vagrant/.ansible/tmp/ansible-tmp-1687163170.7614326-12303-15308492460 ** echo /home/vagrant/.ansible/tmp/ansible-tmp-168716
```

```
drggtm@Ubuntu: /opt/vagrant
drggtm@Ubuntu: ~/Hazesoft_Inter... ×
   drggtm@Ubuntu: ~/Hazesoft_Inter...
           drggtm@Ubuntu:/opt
skipped=0 rescued=0 ianored=0
     unreachable=0
```

```
drggtm@Ubuntu: ~/Hazesoft Inter... ×
   dragtm@Ubuntu: ~/Hazesoft Inter...
       drggtm@Ubuntu:/opt/vagrant
           dragtm@Ubuntu:/opt
: ok=11 changed=3 unreachable=0 failed=0 skipped=0 rescued=0
          ignored=0
```

```
vagrant@ubuntu2204: /opt/task/site
                                                                                                                                      drggtm@Ubuntu: ~/Hazesoft_Internship/T1
 vagrant@ubuntu2204:/opt/task/site$
vagrant@ubuntu2204:/opt/task/site$
 vagrant@ubuntu2204:/opt
                                               tte$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE vagrant@ubuntu2204:/opt/task/stte$
vagrant@ubuntu2204:/opt/task/stte$
vagrant@ubuntu2204:/opt/task/siteS
                                              ite$ sudo docker ps
                                       COMMAND CREATED STATUS PORTS
"nginx -g 'daemon of..." 15 seconds ago Up 15 seconds 9000/tcp, 0.0.0.0:9000->80/tcp
CONTAINER ID IMAGE cb029d3ee13b task1
                                      COMMAND
                                                                                                                                                                                  NAMES
vagrant@ubuntu2204:/opt/task
vagrant@ubuntu2204:/opt/task
      rant@ubuntu2204:/opt/task/site$ sudo docker exec -it cb029d3ee13b sh
/ # cd /etc/nginx
/etc/nginx # ls
fastcgi.conf fastcgi_params http.d
/etc/nginx #
                                                                        mime.types modules
                                                                                                                         nginx.conf
                                                                                                                                                   scgi_params
                                                                                                                                                                           uwsgi_params
/etc/nginx # cd http.d/
/etc/nginx/http.d # ls
default.conf
default.conf
/etc/nginx/http.d # sudo nano default.conf
sh: sudo: not found
/etc/nginx/http.d # sudo vi default.conf
sh: sudo: not found
/etc/nginx/http.d # vi default.conf
/etc/nginx/http.d # vi default.conf
/etc/nginx/http.d # nginx -s reload
/etc/nginx/http.d # nginx -s reload
 /etc/nginx/http.d #
 /etc/nginx/http.d # /etc/nginx/http.d # curl localhost:9000/site/index.html
 sh: curl: not found
/etc/nginx/http.d # exit
                                       ask/site$ curl localhost:9000/site/index.html
 You did it, Congratulations!!
 vagrant@ubuntu2204:/opt/t
```

Final result:-

