## Containers and Configuration Management

Name Sahil Yuvraj Bhirud

## **Configuration Overview**

1. Include a screenshot of your console window after running these commands.

```
| The last New Temmond Tale Help | The Help
```

- 2. Include a screenshot showing the following:
  - Successful login to test.<lastname>.ccd.lab
    - a. No password prompt
    - b. No host key warning
  - Contents of ~/.ssh/known\_hosts



3. Include a screenshot of the following command ssh test-ansible.<lastname>.ccd.lab

```
Fig. 12 to 12 to 12 to 13 to 14 to 1
```

4. Explain what the -n argument does in ssh-keygen

"-n" is used to specify one or more user or host names to be included in a certificate when signing a key (openbsd).

Include a screenshot of the above command showing that Ansible was able to ping your test container.

```
Setting up python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-python-pytho
```

6. Explain why we have to specify the following in the hosts.ini file. It has to do with our SSH configuration.

ansible\_ssh\_host acts as SSH host alias for the host domain.

This can be removed by using -n option while configuring the host (in this case test.bhirud.ccd.lab) to use root access while connecting.

7. Include a screenshot showing the command's output (only the last bits of it to show it successfully running).

```
TASK [nginxinc.nginx : (Setup: All Oss) Configure NGINX Controller Agent API Hostname]

TASK [nginxinc.nginx : [Install: Debian/Ubuntu) Add NGINX Unit Repository]

Skipping: [test.bhirud.ccd.lab] => (item=deb https://packages.nginx.org/unit/ubuntu/ bionic unit)

Skipping: [test.bhirud.cd.lab] => (item=deb https://packages.nginx.org/unit/ubuntu/ bionic unit)

Skipping: [test.bhirud.cd.lab] => (item=deb https://packages.nginx.org/unit/ubuntu/ bionic unit)

TASK [nginxinc.nginx : [Install: Amazon Linux) Add NGINX Unit Repository]

TASK [nginxinc.nginx : [Install: Amazon Linux) Add NGINX Unit Repository]

TASK [nginxinc.nginx : (Install: FreeBSD) Fetch Ports]

Skipping: [test.bhirud.ccd.lab]

TASK [nginxinc.nginx : [Install: FreeBSD) Extract Ports]

Skipping: [test.bhirud.ccd.lab]

TASK [nginxinc.nginx : [Install: Debian/Ubuntu/CentOS/RedBat) Install NGINX Unit]

Skipping: [test.bhirud.ccd.lab]

TASK [nginxinc.nginx : [Install: Debian/Ubuntu/CentOS/RedBat) Install NGINX Unit]

Skipping: [test.bhirud.ccd.lab]

TASK [nginxinc.nginx : [Install: Debian/Ubuntu/CentOS/RedBat) Install NGINX Unit Modules]

Skipping: [test.bhirud.ccd.lab] => (Item=Bobb) =>
```

8. Your Ansible playbook was supposed to have installed Nginx, a web server. Include a screenshot of the command, showing that Nginx is running.

```
TASK [nginxinc.nginx : (Install: FreeBSD) Fetch Ports]

ASK [nginxinc.nginx : (Install: Amazon Linux) Add NGINX Unit Repository]

TASK [nginxinc.nginx : (Install: FreeBSD) Fetch Ports]

ASK [nginxinc.nginx : (Install: FreeBSD) Extract Ports]

ASK [nginxinc.nginx : (Install: FreeBSD) Extract Ports]

ASK [nginxinc.nginx : (Install: Bebian/Ubuntu/CentOS/RedNat) Install NGINX Unit]

ASK [nginxinc.nginx : (Install: FreeBSD) Install NGINX Unit]

ASK [nginxinc.nginx : (Install: Bebian/Ubuntu/CentOS/RedNat) Install NGINX Unit]

ASK [nginxinc.nginx : (Install: Debian/Ubuntu/CentOs/RedNat) Install NGINX Unit Modules]

ASK [nginxinc.nginx : (Install: FreeBSD) Install NGINX Unit Modules]

ASK [nginxinc.nginx : (Install: FreeBSD) Install NGINX Unit Modules]

ASK [nginxinc.nginx : (Install: FreeBSD) Install NGINX Unit Modules]

ASK [nginxinc.nginx : (Install: FreeBSD) Install NGINX Unit Modules]

ASK [nginxinc.nginx : (Install: FreeBSD) Install NGINX Unit Modules]

ASK [nginxinc.nginx : (Install: FreeBSD) Install NGINX Unit Modules]

ASK [nginxinc.nginx : (Install: FreeBSD) Install NGINX Unit Modules]

ASK [nginxinc.nginx : (Install: FreeBSD) Install NGINX Unit Modules]

ASK [nginxinc.nginx : (Install: FreeBSD) Install NGINX Unit Modules]

ASK [nginxinc.nginx : (Install: FreeBSD) Install NGINX Unit Modules]

ASK [nginxinc.nginx : (Install: FreeBSD) Install NGINX Unit Modules]

ASK [nginxinc.nginx : (Install: FreeBSD) Install NGINX Unit Modules]

ASK [nginxinc.nginx : (Install: FreeBSD) Install NGINX Unit Modules]

ASK [nginxinc.nginx : (Install: FreeBSD) Install NGINX Unit Modules]

ASK [nginxinc.nginx : (Install: FreeBSD) Install NGINX Unit Modules]

ASK [nginxinc.nginx : (Install: FreeBSD) Install NGINX Unit Modules]

ASK [nginxinc.nginx : (Install: FreeBSD) Install NGINX Unit Modules]

ASK [nginxinc.nginx : (Install: FreeBSD) Install NGINX Unit Modules]

ASK [nginxinc.nginx : (Install: FreeBSD) Install NGINX Unit Modules]

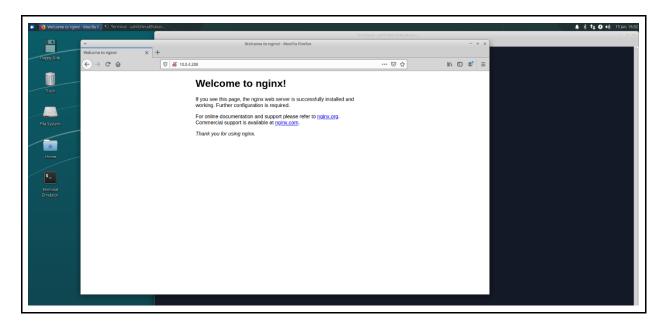
ASK [nginxinc.nginx : (Install: FreeBSD) Install NGINX Unit Modules]

ASK [nginxinc.nginx : (Install
```

9. How do you know Nginx is running?

systemctl is-active nginx

10. Open Firefox in your VM and navigate to http://10.0.4.200. Include a screenshot of the default Nginx landing page.



## References:

1. openbsd - <a href="https://man.openbsd.org/ssh-keygen.1">https://man.openbsd.org/ssh-keygen.1</a>