```
~/De/P/SCRIPTING/A/hosa-ansible-nginx main
docker image pull ubuntu:latest
latest: Pulling from library/ubuntu
de44b265507a: Already exists
Digest: sha256:80dd3c3b9c6cecb9f1667e9290b3bc61b78c2678c02cbdae5f0fea92cc6734a
b
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest
```

```
~/De/P/SCRIPTING/A/hosa-ansible-nginx main
docker tag ubuntu:latest hosa-ubuntu01
```

```
hosa-ubuntu01          latest    b1d9df8ab815   2 months ago   78.1MB
```

```
~/De/P/SCRIPTING/A/hosa-ansible-nginx main
docker container run -itd --name hosa-con1 hosa-ubuntu01
b8ad2e317518502bdd7784d6782163fcc89de70311727ffd5a17bf4c6eeca57d
```

Now that I have the container running on ubuntu, I need to install ssh on it so that I connect with the server from the host!

```
~/De/P/SCRIPTING/A/hosa-ansible-nginx main
docker exec -it hosa-con1 bash
root@b8ad2e317518:/# ssh
bash: ssh: command not found
root@b8ad2e317518:/# sshd
bash: sshd: command not found
root@b8ad2e317518:/# sudo systemctl sshd
bash: sudo: command not found
root@b8ad2e317518:/# systemctl status sshd
bash: systemctl: command not found
```

As we can see here, on the container, the ssh is not installed, nothing is installed on the container..

Hossam Mahmoud
TEL: +20 10 97 666 269
EMAIL: hossammaali@gmail.com

```
root@b8ad2e317518:/# ssh
usage: ssh [-46AaCfGgKkMNnqsTtVvXxYy] [-B bind_interface] [-b bind_address]
           [-c cipher_spec] [-D [bind_address:]port] [-E log_file]
           [-e escape_char] [-F configfile] [-I pkcs11] [-i identity_file]
           [-J destination] [-L address] [-l login_name] [-m mac_spec]
           [-O ctl_cmd] [-o option] [-P tag] [-p port] [-R address]
           [-S ctl_path] [-W host:port] [-w local_tun[:remote_tun]]
           destination [command [argument ...]]
       ssh [-Q query_option]
```

I installed ssh and started the service

```
root@b8ad2e317518:/# service ssh start
 * Starting OpenBSD Secure Shell server sshd                        [ OK ]
```

Let's find the IP Address of the container hosa-con1

```
~/De/P/SCRIPTING/A/hosa-ansible-nginx  main
 docker inspect -f '{{range .NetworkSettings.Networks}}{{.IPAddress}}{{end}}
' hosa-con1
172.17.0.2
```

```
~/De/P/SCRIPTING/A/hosa-ansible-nginx  main !1 ?4
 ssh-copy-id -i ~/.ssh/ansible_rsa.pub root@172.17.0.2
```

```
Number of key(s) added: 1
```

```
~/De/P/SCRIPTING/A/hosa-ansible-nginx  main ?1
 sudo ansible all -i 172.17.0.2, --private-key ~/.ssh/ansible_rsa -u root -m
 ping
172.17.0.2 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": false,
    "ping": "pong"
}
```

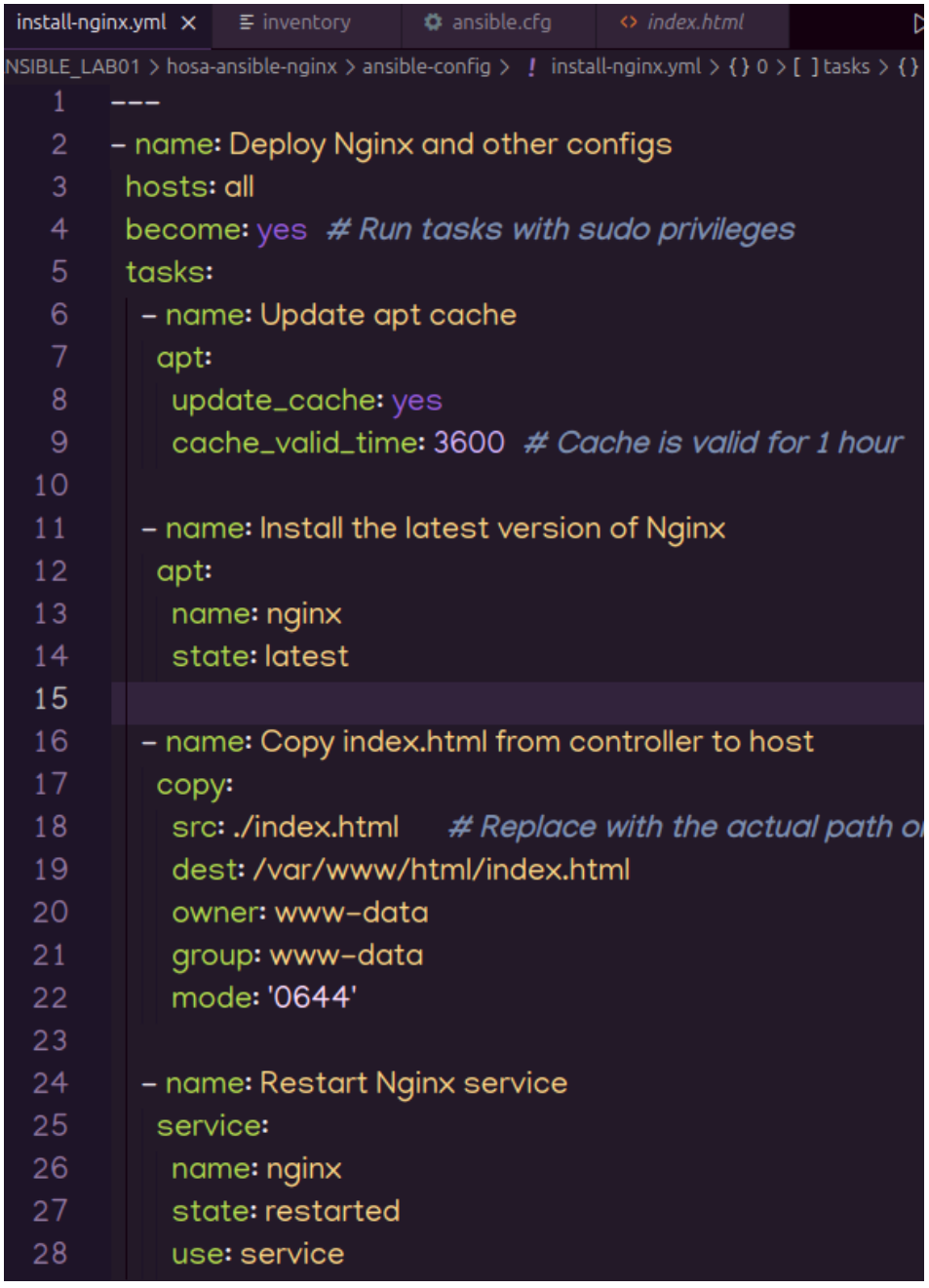
Ansible is working with the container

Hossam Mahmoud
TEL: +20 10 97 666 269
EMAIL: hossammaali@gmail.com

1. Update cache
2. Install latest nginx
3. Copy index.html from controller to host 1
4. Restart nginx service
5. Can you see your index.html file when you hit host 1 on port 80?

text, use:

Here is the playbook file



Hossam Mahmoud
TEL: +20 10 97 666 269
EMAIL: hossammaali@gmail.com

```
~/De/P/SCRIPTING/A/h/ansible-config  main
ansible-playbook ./install-nginx.yml
BECOME password:

PLAY [Deploy Nginx and other configs] ************************************
**

TASK [Gathering Facts] **(1)*********************************************
**
ok: [172.17.0.2]

TASK [Update apt cache] *(2)*********************************************
**
ok: [172.17.0.2]

TASK [Install the latest version of Nginx] *(3)*****************************
**
ok: [172.17.0.2]

TASK [Copy index.html from controller to host] **(4)*************************
**
ok: [172.17.0.2]

TASK [Restart Nginx service] **(5)***************************************
**
changed: [172.17.0.2]

PLAY RECAP ***************************************************************
**
172.17.0.2                 : ok=5    changed=1    unreachable=0    failed=0
 skipped=0    rescued=0    ignored=0
```

Hossam Mahmoud
TEL: +20 10 97 666 269
EMAIL: hossammaali@gmail.com

```
root@b8ad2e317518:/var# cd www
root@b8ad2e317518:/var/www# cd html
root@b8ad2e317518:/var/www/html# cat index.html
<!DOCTYPE html>
<html>
<head>
    <title>Welcome to Hosa Root Host 1!</title>
</head>
<body>
    <h1>Hello from Ansible Deployment 🚀</h1>
</body>
</html>
root@b8ad2e317518:/var/www/html#
```

Here we can see that the file got transferred to the directory we assigned inside the container.

Hossam Mahmoud
TEL: +20 10 97 666 269
EMAIL: hossammaali@gmail.com