Module-6: Ansible Assignment - 4

You have been asked to:

● Use the previous deployment of ansible cluster
● Configure the files folder in the role with index.html which should be replaced

with the original index.html
All of the above should only happen on the slave which has nginx installed using the role

Solution:

1) Ensure we have the previous Ansible deployment set up with the roles created for nginx and apache2.
2) Create a custom `index.html` file that we want to deploy on the Nginx server:
   Go to roles folder > cd roles > ls > cd nginx > ls > cd files > sudo vi index.html

```
ubuntu@ip-172-31-34-58:/etc/ansible/roles$ ls
apache2  assign3.yml  nginx
ubuntu@ip-172-31-34-58:/etc/ansible/roles$ cd nginx
ubuntu@ip-172-31-34-58:/etc/ansible/roles/nginx$ ls
README.md  defaults  files  handlers  meta  tasks  templates
ubuntu@ip-172-31-34-58:/etc/ansible/roles/nginx$ cd files
ubuntu@ip-172-31-34-58:/etc/ansible/roles/nginx/files$
```

i-0e5a50632eb21b8eb (master)

PublicIPs: 3.108.42.153   PrivateIPs: 172.31.34.58

```
ubuntu@ip-172-31-34-58:/etc/ansible/roles/nginx/files$ sudo vi index.html
ubuntu@ip-172-31-34-58:/etc/ansible/roles/nginx/files$
```

i-0e5a50632eb21b8eb (master)

PublicIPs: 3.108.42.153   PrivateIPs: 172.31.34.58

3) The directory structure should look like this:
   ~/ansible/roles/nginx/files/index.html

```
ubuntu@ip-172-31-34-58:/etc/ansible/roles/nginx/files$ ls
index.html
ubuntu@ip-172-31-34-58:/etc/ansible/roles/nginx/files$
```

4) Update the `tasks/main.yml` file in the `nginx` role to copy the `index.html` file to the appropriate location on the Nginx server.
   Roles > cd nginx > cd tasks > sudo vi main.yml

```
ubuntu@ip-172-31-34-58:/etc/ansible/roles/nginx/files$ cd ../..
ubuntu@ip-172-31-34-58:/etc/ansible/roles$ ls
apache2  assign3.yml  nginx
ubuntu@ip-172-31-34-58:/etc/ansible/roles$ cd nginx
ubuntu@ip-172-31-34-58:/etc/ansible/roles/nginx$ ls
README.md  defaults  files  handlers  meta  tasks  templates  tests  vars
ubuntu@ip-172-31-34-58:/etc/ansible/roles/nginx$ cd tasks
ubuntu@ip-172-31-34-58:/etc/ansible/roles/nginx/tasks$ ls
main.yml
ubuntu@ip-172-31-34-58:/etc/ansible/roles/nginx/tasks$
```

i-0e5a50632eb21b8eb (master)

PublicIPs: 3.108.42.153   PrivateIPs: 172.31.34.58

```
---
# tasks file for nginx
- name: Install Nginx
  apt:
    name: nginx
    state: presen
- name: Copy custom index.html
  copy:
    src: index.html
    dest: /var/www/html/index.html
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
-- INSERT --
```

i-0e5a50632eb21b8eb (master)

PublicIPs: 3.108.42.153   PrivateIPs: 172.31.34.58

5) Check the syntax and run the playbook

```
ubuntu@ip-172-31-34-58:/etc/ansible/roles$ ansible-playbook assign3.yml

PLAY [slave1] ********************************************************************

TASK [Gathering Facts] **********************************************************
[WARNING]: Platform linux on host 172.31.0.35 is using the discovered Python interp
Python interpreter could change the meaning of that path. See https://docs.ansible
core/2.17/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.0.35]

TASK [apache2 : Install Apache2] ************************************************
ok: [172.31.0.35]

PLAY [slave2] ********************************************************************

TASK [Gathering Facts] **********************************************************
[WARNING]: Platform linux on host 172.31.10.15 is using the discovered Python inter
Python interpreter could change the meaning of that path. See https://docs.ansible
core/2.17/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.10.15]

TASK [nginx : Install Nginx] ****************************************************
ok: [172.31.10.15]

TASK [nginx : Copy custom index.html] *******************************************
changed: [172.31.10.15]
```

```
TASK [nginx : Copy custom index.html] ************************************
changed: [172.31.10.15]

PLAY RECAP ****************************************************************
172.31.0.35                : ok=2    changed=0    unreachable=0    failed=0    skipped=0
172.31.10.15               : ok=3    changed=1    unreachable=0    failed=0    skipped=0

ubuntu@ip-172-31-34-58:/etc/ansible/roles$
```
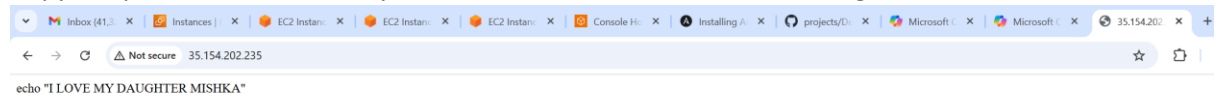
i-0e5a50632eb21b8eb (master)

PublicIPs: 3.108.42.153   PrivateIPs: 172.31.34.58

6) Copy the public IP of slave 2 in your browser and we can see the message

Not secure   35.154.202.235

echo "I LOVE MY DAUGHTER MISHKA"