

Tasks To Be Performed:

1. Create 2 Ansible roles
2. Install Apache2 on slave1 using one role and NGINX on slave2 using the other role
3. Above should be implemented using different Ansible roles

1. Create 2 Ansible roles

Instances (3/3) Info		Connect		Instance state ▼		Actions ▼		Launch instances	
		All states ▼		< 1 >					
Name ▼	Instance ID ▼	Instance state	Instance type ▼	Status check	Alarm status				
ansible-master	i-0c2a560f1804185dd	Running Q Q	t2.micro	2/2 checks passec	View alarms +	ap			
ansible-slave1	i-086755b1a9aed4c53	Running Q Q	t2.micro	Initializing	View alarms +	ap			
ansible-slave2	i-0d4541cc825aaa2cc	Running Q Q	t2.micro	2/2 checks passec	View alarms +	ap			

2. Install Apache2 on slave1 using one role and NGINX on slave2 using the other role

3. Above should be implemented using different Ansible roles

```
ubuntu@ip-172-31-11-69:/etc/ansible/roles$ sudo ansible-galaxy init apache-role
- Role apache-role was created successfully
ubuntu@ip-172-31-11-69:/etc/ansible/roles$ sudo ansible-galaxy init nginx-role
- Role nginx-role was created successfully
ubuntu@ip-172-31-11-69:/etc/ansible/roles$ ls
apache-role  nginx-role
ubuntu@ip-172-31-11-69:/etc/ansible/roles$
```

i-0c2a560f1804185dd (ansible-master)

PublicIPs: 43.204.107.107 PrivateIPs: 172.31.11.69

```
GNU nano 1.4
```

```
name: Installing Apache2
apt: name=apache2 state=latest
```

```
#SPDX-License-Identifier: MIT-0
```

```
#
# tasks file for apache-role
- include_tasks: install.yaml
```

```
GNU nano 7.2
- name: Installing NGINX
  apt: name=nginx state=present
```

```
GNU nano 7.2
# SPDX-License-Identifier: MIT-0
---
# tasks file for nginx-role
- include_tasks: installnginx.yaml
```

PlayBook File(YAML)

```
GNU nano 7.2
---
- name: Execute Apache role on Slave1
  hosts: slave-1
  become: true
  roles:
    - apache-role

- name: Execute NGINX role on Slave2
  hosts: slave-2
  become: true
  roles:
    - nginx-role
```

```
playbook: play3.yaml
ubuntu@ip-172-31-11-69:/etc/ansible$ ansible-playbook play3.yaml
[WARNING]: Invalid characters were found in group names but not replaced, use -vvvv to see details

PLAY [Execute Apache role on Slave1] *****
TASK [Gathering Facts] *****
[WARNING]: Host '172.31.3.174' is using the discovered Python interpreter at '/usr/bin/python3.12', but future installation of another Python interpreter could cause a different interpreter to be discovered. See https://docs.ansible.com/ansible-core/2.19/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.3.174]

TASK [apache-role : include_tasks] *****
included: /etc/ansible/roles/apache-role/tasks/install.yaml for 172.31.3.174
changed: [172.31.3.174]

PLAY [Execute NGINX role on Slave2] *****
TASK [Gathering Facts] *****
[WARNING]: Host '172.31.12.184' is using the discovered Python interpreter at '/usr/bin/python3.12', but future installation of another Python interpreter could cause a different interpreter to be discovered. See https://docs.ansible.com/ansible-core/2.19/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.12.184]

TASK [nginx-role : include_tasks] *****
included: /etc/ansible/roles/nginx-role/tasks/installnginx.yaml for 172.31.12.184
changed: [172.31.12.184]

TASK [nginx-role : Installing NGINX] *****
changed: [172.31.12.184]

I-0c2a560f180a185dd (ansible-master)
PublicIPs: 43.204.107.107 PrivateIPs: 172.31.11.69
```

```

TASK [nginx-role : Installing NGINX] ****
changed: [172.31.12.184]

PLAY RECAP ****
172.31.12.184 : ok=3    changed=1    unreachable=0    failed=0     skipped=0    rescued=0    ignored=0
172.31.3.174   : ok=3    changed=1    unreachable=0    failed=0     skipped=0    rescued=0    ignored=0

ubuntu@ip-172-31-11-69:/etc/ansible$ █

```

i-0c2a560f1804185dd (ansible-master)

Public IPs: 43.204.107.107 Private IPs: 172.31.11.69

