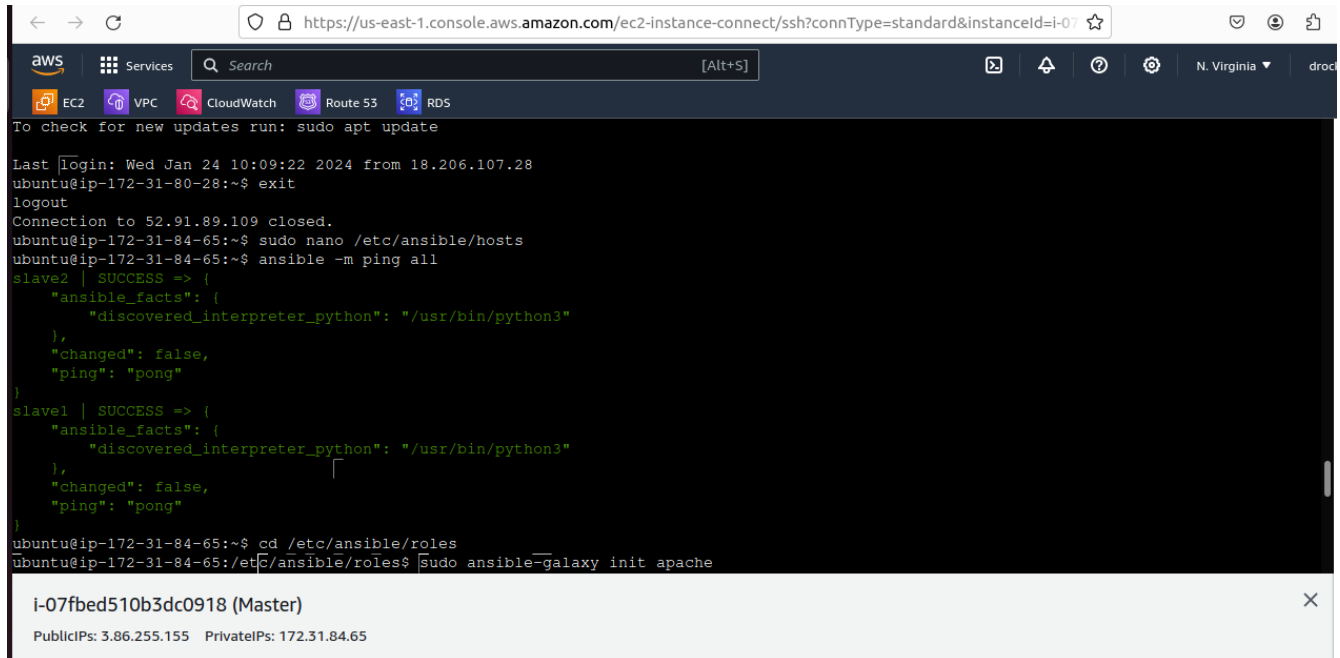


1. Create 2 Ansible roles
2. Install Apache2 on slave1 using one role and NGINX on slave2 using the other role
3. Above should be implemented using different Ansible roles



The screenshot shows an AWS console terminal window with the following content:

```
< > ↻ https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-07...
aws Services Search [Alt+S]
EC2 VPC CloudWatch Route 53 RDS
To check for new updates run: sudo apt update
Last login: Wed Jan 24 10:09:22 2024 from 18.206.107.28
ubuntu@ip-172-31-80-28:~$ exit
logout
Connection to 52.91.89.109 closed.
ubuntu@ip-172-31-84-65:~$ sudo nano /etc/ansible/hosts
ubuntu@ip-172-31-84-65:~$ ansible -m ping all
slave2 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
slave1 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
ubuntu@ip-172-31-84-65:~$ cd /etc/ansible/roles
ubuntu@ip-172-31-84-65:/etc/ansible/roles$ sudo ansible-galaxy init apache
```

Below the terminal output, a summary box for instance `i-07fbcd510b3dc0918 (Master)` is visible, showing Public IPs: 3.86.255.155 and Private IPs: 172.31.84.65.

## MAKE 2 ROLES:APACHE AND NGINX

```
cd /etc/ansible/roles
sudo ansible-galaxy init apache
```

```
cd apache/tasks
sudo nano main.yml
```

---

```
- name: Install Apache2
  apt:
    name: apache2
    state: present
```

.....

```
cd /etc/ansible/roles
sudo ansible-galaxy init nginx
```

```
cd nginx/tasks
sudo nano main.yml
```

---

```
- name: Install NGINX
apt:
  name: nginx
  state: present
```



.....

Create the service.yml Playbook:

```
cd /etc/ansible/roles
sudo nano service.yml
```

---

```
- name: Install Services
hosts: all
become: true
roles:
  - role: apache
    when: inventory_hostname == 'slave1'
  - role: nginx
    when: inventory_hostname == 'slave2'
```

```
ansible-playbook service.yml
```

```
← → ↻ https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-07
aws Services Search [Alt+S] EC2 VPC CloudWatch Route 53 RDS N. Virginia droc

"ping": "pong"
}
slave1 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
ubuntu@ip-172-31-84-65:~$ cd /etc/ansible/roles
ubuntu@ip-172-31-84-65:/etc/ansible/roles$ sudo ansible-galaxy init apache
- Role apache was created successfully
ubuntu@ip-172-31-84-65:/etc/ansible/roles$ cd apache/tasks
ubuntu@ip-172-31-84-65:/etc/ansible/roles/apache/tasks$ sudo nano main.yml
ubuntu@ip-172-31-84-65:/etc/ansible/roles/apache/tasks$ cd
ubuntu@ip-172-31-84-65:~$ cd /etc/ansible/roles
ubuntu@ip-172-31-84-65:/etc/ansible/roles$ sudo ansible-galaxy init nginx
- Role nginx was created successfully
ubuntu@ip-172-31-84-65:/etc/ansible/roles$ cd nginx/tasks
ubuntu@ip-172-31-84-65:/etc/ansible/roles/nginx/tasks$ sudo nano main.yml
ubuntu@ip-172-31-84-65:/etc/ansible/roles/nginx/tasks$ cd
ubuntu@ip-172-31-84-65:~$ cd /etc/ansible/roles
ubuntu@ip-172-31-84-65:/etc/ansible/roles$ sudo nano service.yml
ubuntu@ip-172-31-84-65:/etc/ansible/roles$ ansible-playbook service.yml

i-07fbcd510b3dc0918 (Master)
PublicIPs: 3.86.255.155 PrivateIPs: 172.31.84.65
```

```
← → ↻ https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-07
aws Services Search [Alt+S] EC2 VPC CloudWatch Route 53 RDS N. Virginia droc

ubuntu@ip-172-31-84-65:/etc/ansible/roles$ ^C
ubuntu@ip-172-31-84-65:/etc/ansible/roles$ cd nginx/tasks
ubuntu@ip-172-31-84-65:/etc/ansible/roles/nginx/tasks$ sudo nano main.yml
ubuntu@ip-172-31-84-65:/etc/ansible/roles/nginx/tasks$ cd
ubuntu@ip-172-31-84-65:~$ cd /etc/ansible/roles
ubuntu@ip-172-31-84-65:/etc/ansible/roles$ ansible-playbook service.yml

PLAY [Install Services] *****

TASK [Gathering Facts] *****
ok: [slave2]
ok: [slave1]

TASK [apache : Install Apache2] *****
skipping: [slave2]
changed: [slave1]

TASK [nginx : Install NGINX] *****
skipping: [slave1]
changed: [slave2]

PLAY RECAP *****
slave1 : ok=2 changed=1 unreachable=0 failed=0 skipped=1 rescued=0 ignored=0
slave2 : ok=2 changed=1 unreachable=0 failed=0 skipped=1 rescued=0 ignored=0

i-07fbcd510b3dc0918 (Master)
PublicIPs: 3.86.255.155 PrivateIPs: 172.31.84.65
```

