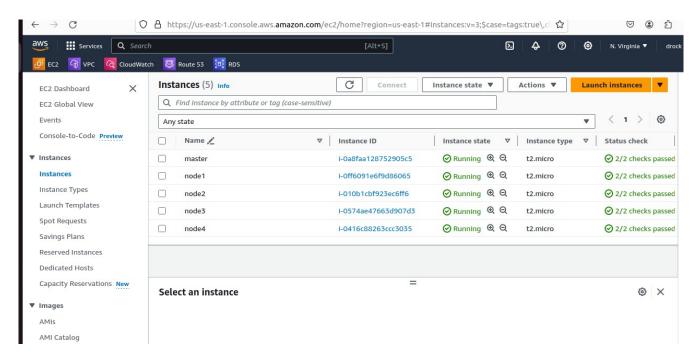
- 1. Create a new deployment of Ansible cluster of 5 nodes
- 2. Label 2 nodes as test and other 2 as prod
- 3. Install Java on test nodes
- 4. Install MySQL server on prod nodes

Use Ansible roles for the above and group the hosts under test and prod.



CREATE INVENTORY FILE sudo nano /etc/ansible/hosts

[test]

test-node1 ansible_host=54.161.135.205 test-node2 ansible_host=54.211.200.169

[prod]

prod-node1 ansible_host=54.166.156.212 prod-node2 ansible_host=3.92.45.111

PING ALL THE HOSTS

ansible -m ping all

ROLES CREATIONS

```
ubuntu@ip-172-31-82-93:/etc/ansible/roles$ sudo ansible-galaxy init java_install
- Role java_install was created successfully
ubuntu@ip-172-31-82-93:/etc/ansible/roles$ sudo ansible-galaxy init mysql_install
- Role mysql_install was created successfully
```

CREATE THE 2 ROLES

/etc/ansible/roles

sudo ansible-galaxy init java_install sudo ansible-galaxy init mysql_install

.....

ROLE1

mkdir -p roles/java_install/tasks

(mkdir -p roles/java_install/tasks..... is used to create the directory structure for an Ansible role.) sudo nano roles/java_install/tasks/main.yml..... (to edit the main.yml file inside the tasks directory.)

OR

cd /etc/ansible/roles/java_install/tasks

Edit the main.yml file

```
sudo nano main.yml
.....
- name: Install Java
 become: yes
 apt:
  name: openjdk-11-jdk
  state: present
•••••
ROLE2
mkdir -p roles/mysql_install/tasks ......
sudo nano roles/mysql_install/tasks/main.yml
OR
cd /etc/ansible/roles/mysql_install/tasks
sudo nano main.yml
- name: Install MySQL Server
 become: yes
 apt:
  name: mysql-server
  state: present
.....
Create the service.yml Playbook:
cd /etc/ansible/roles
sudo nano service.yml
- name: Install Services
 hosts: all
 become: yes
 roles:
  - role: java_install
  - role: mysql_install
cd /etc/ansible/roles
```

ansible-playbook service.yml

```
ubuntu@ip-172-31-82-93:~$ cd /etc/ansible/roles
ubuntu@ip-172-31-82-93:/etc/ansible/roles$ ansible-playbook service.yml
: ok=1 changed=0 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
ubuntu@ip-172-31-82-93:/etc/ansible/roles$
                                                                                                       ×
```

i-0a8faa128752905c5 (master)

PublicIPs: 44.202.115.147 PrivateIPs: 172.31.82.93