

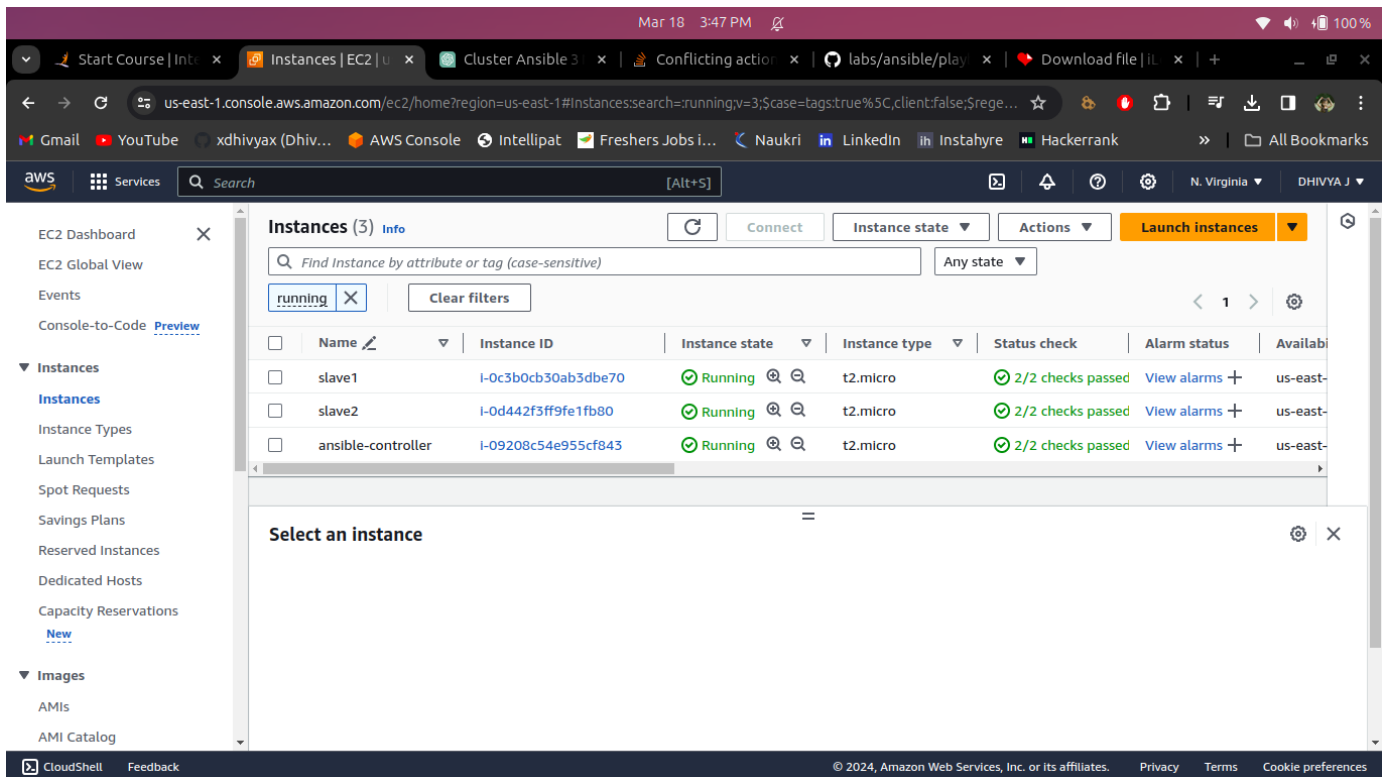
Module-6: Ansible Assignment

- 1

You have been asked to:

- Setup Ansible cluster with 3 nodes
- On slave1 install java
- On slave 2 install mysql-server

Do the above tasks using Ansible playbooks



The screenshot displays the AWS Management Console interface for EC2 instances. The left sidebar shows the navigation menu with 'Instances' selected. The main content area shows a list of three instances, all of which are in the 'Running' state. Below the list, a 'Select an instance' dialog box is open.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
slave1	I-0c3b0cb30ab3dbe70	Running	t2.micro	2/2 checks passed	View alarms	us-east-1
slave2	I-0d442f3ff9fe1fb80	Running	t2.micro	2/2 checks passed	View alarms	us-east-1
ansible-controller	I-09208c54e955cf843	Running	t2.micro	2/2 checks passed	View alarms	us-east-1

```
Mar 18 3:48 PM 100%
ubuntu@ansible-controller: ~
ubuntu@ansible-controller: ~
ubuntu@slave2: ~
ubuntu@slave1: ~
ubuntu@ansible-controller: ~$ ansible --version
ansible [core 2.16.4]
  config file = /home/ubuntu/ansible.cfg
  configured module search path = ['/home/ubuntu/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python3/dist-packages/ansible
  ansible collection location = /home/ubuntu/.ansible/collections:/usr/share/ansible/collections
  executable location = /usr/bin/ansible
  python version = 3.10.12 (main, Nov 20 2023, 15:14:05) [GCC 11.4.0] (/usr/bin/python3)
  jinja version = 3.0.3
  libyaml = True
ubuntu@ansible-controller: ~$
```

```
Mar 18 3:48 PM 100%
ubuntu@slave2: ~
ubuntu@ansible-controller: ~
ubuntu@slave2: ~
ubuntu@slave1: ~
ubuntu@slave2: ~$ python3
Python 3.10.12 (main, Nov 20 2023, 15:14:05) [GCC 11.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>>
```



```
Mar 18 7:39 PM 46%
ubuntu@ansible-controller: ~
ubuntu@slave1: ~/.ssh
ubuntu@slave2: ~

- name: install java
  hosts: slave1
  become: yes
  tasks:
    - name: run apt-get update
      apt:
        update_cache: yes
    - name: install java
      apt:
        name: openjdk-11-jdk
        state: present
- name: install mysql
  hosts: all
  become: yes
  tasks:
    - name: run apt-get update
      apt:
        update_cache: yes
    - name: install mysql
      apt:
        name: mysql-server
        state: present
    - name: start service
      systemd:
        name: mysql
        state: restarted

"script.yaml" 26L, 513B 26,24 All
```

```
Mar 18 3:53 PM 100%
ubuntu@slave1: ~
ubuntu@slave2: ~
ubuntu@slave1: ~

ubuntu@slave1:~$ java --version
Command 'java' not found, but can be installed with:
sudo apt install openjdk-11-jre-headless # version 11.0.20.1+1-0ubuntu1~22.04, or
sudo apt install default-jre # version 2:1.11-72build2
sudo apt install openjdk-17-jre-headless # version 17.0.8.1+1-us1-0ubuntu1~22.04
sudo apt install openjdk-18-jre-headless # version 18.0.2+9-2~22.04
sudo apt install openjdk-19-jre-headless # version 19.0.2+7-0ubuntu3~22.04
sudo apt install openjdk-8-jre-headless # version 8u382-ga-1~22.04.1
ubuntu@slave1:~$
```

```
Mar 18 3:54 PM
ubuntu@slave2: ~
ubuntu@slave2:~$ mysql
Command 'mysql' not found, but can be installed with:
sudo apt install mysql-client-core-8.0 # version 8.0.35-0ubuntu0.22.04.1, or
sudo apt install mariadb-client-core-10.6 # version 1:10.6.12-0ubuntu0.22.04.1
ubuntu@slave2:~$
```

;;

```
Mar 18 7:34 PM
ubuntu@ansible-controller: ~
ubuntu@ansible-controller:~$ ansible-playbook -i myinv script.yaml

PLAY [install java] *****
TASK [Gathering Facts] *****
ok: [54.147.172.120]

TASK [run apt-get update] *****
changed: [54.147.172.120]

TASK [install java] *****
ok: [54.147.172.120]

PLAY [install mysql] *****
TASK [Gathering Facts] *****
The authenticity of host '18.214.98.75 (18.214.98.75)' can't be established.
ED25519 key fingerprint is SHA256:Ff7tnHw9UmfJmfi4D04ch2mZ8A8M+e0/+IwMZsjPovs.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? ok: [54.147.172.120]
yes
ok: [18.214.98.75]

TASK [run apt-get update] *****
changed: [54.147.172.120]
changed: [18.214.98.75]

TASK [install mysql] *****
changed: [18.214.98.75]
changed: [54.147.172.120]
```

```
Mar 18 7:35 PM 47%
ubuntu@ansible-controller: ~
TASK [install java] *****
ok: [54.147.172.120]
PLAY [install mysql] *****
TASK [Gathering Facts] *****
The authenticity of host '18.214.98.75 (18.214.98.75)' can't be established.
ED25519 key fingerprint is SHA256:Ff7tnHw9Umfi4D04ch2mZ8A8M+e0/+IwMZsjPovs.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? ok: [54.147.172.120]
yes
ok: [18.214.98.75]
TASK [run apt-get update] *****
changed: [54.147.172.120]
changed: [18.214.98.75]
TASK [install mysql] *****
changed: [18.214.98.75]
changed: [54.147.172.120]
TASK [start service] *****
changed: [54.147.172.120]
changed: [18.214.98.75]
PLAY RECAP *****
18.214.98.75      : ok=4    changed=3    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
54.147.172.120   : ok=7    changed=4    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
ubuntu@ansible-controller:~$
```

```
Mar 18 7:37 PM 47%
ubuntu@slave1: ~/.ssh
ubuntu@ansible-controller: ~
ubuntu@slave1: ~/.ssh$ java -version
openjdk version "11.0.22" 2024-01-16
OpenJDK Runtime Environment (build 11.0.22+7-post-Ubuntu-0ubuntu22.04.1)
OpenJDK 64-Bit Server VM (build 11.0.22+7-post-Ubuntu-0ubuntu22.04.1, mixed mode, sharing)
ubuntu@slave1:~/.ssh$
```

```
Mar 18 7:38 PM 46%
ubuntu@slave2: ~
ubuntu@ansible-controller: ~ x
ubuntu@slave1: ~/.ssh x
ubuntu@slave2: ~ x
ubuntu@slave2:~$ mysql --version
mysql Ver 8.0.36-0ubuntu0.22.04.1 for Linux on x86_64 ((Ubuntu))
ubuntu@slave2:~$
```