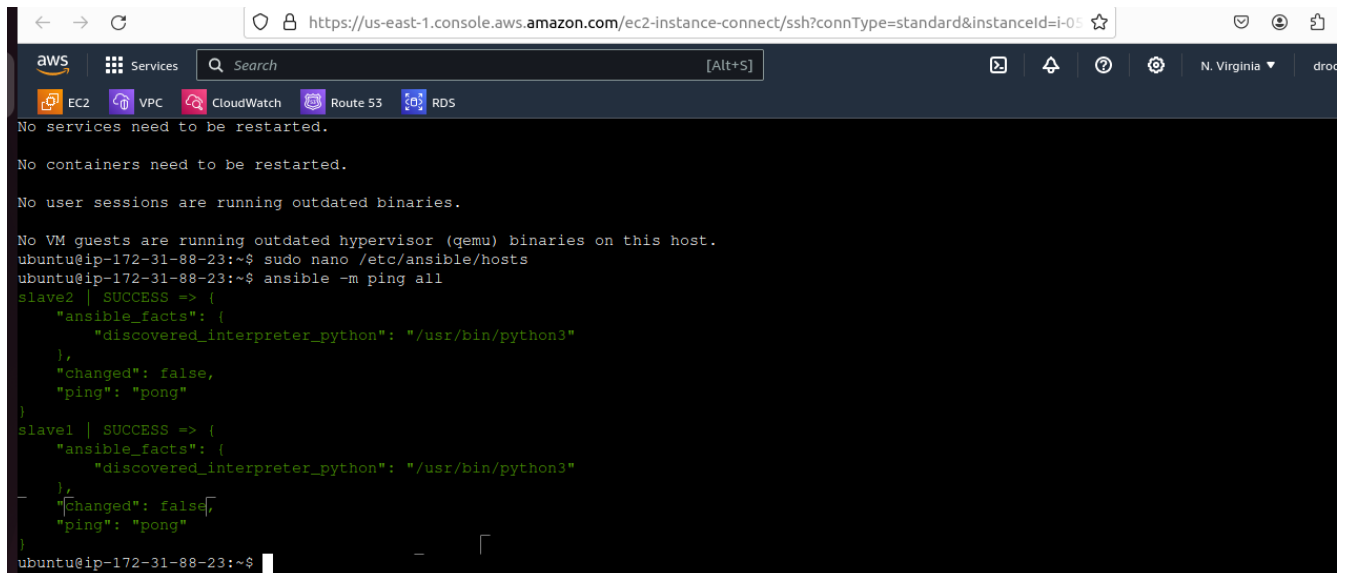


1. Setup Ansible cluster with 3 nodes
 2. On slave 1 install Java
 3. On slave 2 install MySQL server
- Do the above tasks using Ansible Playbooks



The screenshot shows a terminal window within the AWS Management Console. The URL bar indicates a connection to an EC2 instance via SSH. The terminal output shows the execution of the command `ansible -m ping all`. The output for `slave2` and `slave1` both shows `SUCCESS =>` with `ping: "pong"`. The terminal also displays system status messages at the top: "No services need to be restarted.", "No containers need to be restarted.", "No user sessions are running outdated binaries.", and "No VM guests are running outdated hypervisor (qemu) binaries on this host."

```
ubuntu@ip-172-31-88-23:~$ sudo nano /etc/ansible/hosts
ubuntu@ip-172-31-88-23:~$ 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-172-31-88-23:~$
```

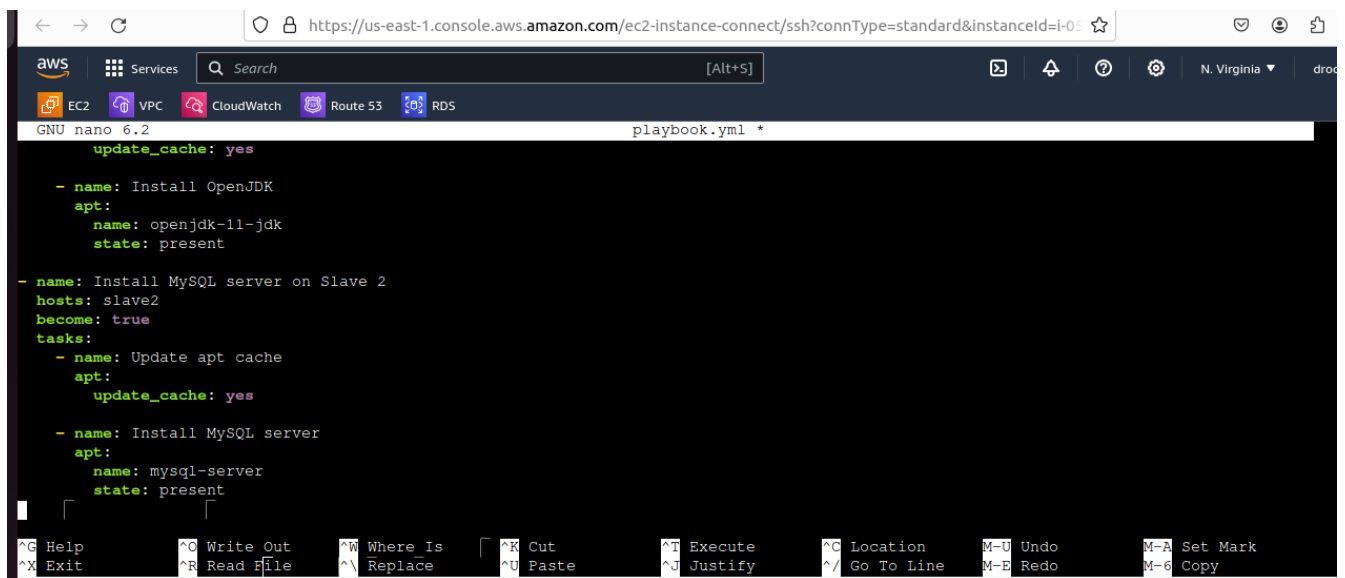
CREATING PLAYBOOK

```
mkdir ansible
cd ansible
sudo nano playbook.yml
```

- name: Install Java on Slave 1
 - hosts: slave1
 - become: true
 - tasks:
 - name: Update apt cache
 - apt:
 - update_cache: yes
 - name: Install OpenJDK
 - apt:
 - name: openjdk-11-jdk
 - state: present- name: Install MySQL server on Slave 2
 - hosts: slave2
 - become: true
 - tasks:

- name: Update apt cache
apt:
 update_cache: yes
- name: Install MySQL server
apt:
 name: mysql-server
 state: present

```
"changed": false,  
"ping": "pong"  
}  
ubuntu@ip-172-31-88-23:~$ mkdir ansible  
ubuntu@ip-172-31-88-23:~$ cd ansible  
ubuntu@ip-172-31-88-23:~/ansible$ sudo nano playbook.yml  
ubuntu@ip-172-31-88-23:~/ansible$
```



The screenshot shows the AWS Management Console interface. The browser address bar displays the URL: <https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-05>. The console header includes the AWS logo, a search bar, and navigation links for EC2, VPC, CloudWatch, Route 53, and RDS. The main content area shows a terminal window titled "GNU nano 6.2" editing a file named "playbook.yml". The file content is as follows:

```
update_cache: yes  
  
- name: Install OpenJDK  
  apt:  
    name: openjdk-11-jdk  
    state: present  
  
- name: Install MySQL server on Slave 2  
  hosts: slave2  
  become: true  
  tasks:  
    - name: Update apt cache  
      apt:  
        update_cache: yes  
  
    - name: Install MySQL server  
      apt:  
        name: mysql-server  
        state: present
```

At the bottom of the terminal window, there is a menu bar with various keyboard shortcuts: ^G Help, ^X Exit, ^O Write Out, ^R Read File, ^W Where Is, ^\ Replace, ^K Cut, ^U Paste, ^T Execute, ^J Justify, ^C Location, ^_ Go To Line, M-U Undo, M-E Redo, M-A Set Mark, and M-C Copy.

```
ubuntu@ip-172-31-88-23:~$ mkdir ansible
ubuntu@ip-172-31-88-23:~$ cd ansible
ubuntu@ip-172-31-88-23:~/ansible$ sudo nano playbook.yml
ubuntu@ip-172-31-88-23:~/ansible$ ansible-playbook playbook.yml

PLAY [Install Java on Slave 1] *****

TASK [Gathering Facts] *****

i-05e44e885a4ab0138 (master)
PublicIPs: 44.212.39.141 PrivateIPs: 172.31.88.23

CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences
```

← → ↻ <https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-05> N. Virginia drock

aws Services Search [Alt+S] EC2 VPC CloudWatch Route 53 RDS

```
ok: [slave1]
TASK [Update apt cache] *****
changed: [slave1]
TASK [Install OpenJDK] *****
changed: [slave1]
PLAY [Install MySQL server on Slave 2] *****
TASK [Gathering Facts] *****
ok: [slave2]
TASK [Update apt cache] *****
changed: [slave2]
TASK [Install MySQL server] *****
changed: [slave2]
PLAY RECAP *****
slave1      : ok=3    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
slave2      : ok=3    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
ubuntu@ip-172-31-88-23:~/ansible$
```

i-05e44e885a4ab0138 (master)
PublicIPs: 44.212.39.141 PrivateIPs: 172.31.88.23

CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences