Anisible assignment

Tasks To Be Performed:

- 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

ANSWER:-

First create the aws m/c

Create the ansible inventory file with "inventory.ini"

[cluster]

master ansible_host=master-node-ip

slave1 ansible_host=slave1-node-ip

slave2 ansible_host=slave2-node-ip

```
ubuntu@ip-172-31-32-191:~$ history
    1 ls
    2 sudo apt update
    3 sudo apt install openjdk-11-jdk
    4 java -version
    5 sudo update-alternatives --config java
    6 history
ubuntu@ip-172-31-32-191:~$

i-040380e0e5f051ae6 (ansible-master)
```

Create the yaml file to create the ansible playbook

Slave1.yml

- name: install java on slave 1

hosts: slave1 become: yes

tasks:

- name: update apt cache

apt:

update_cache: yes

- name: install java

apt:

name: openjdk-11-jdk

state: present

NEXT create a mysql server in th slave2.yml -- - name: Install MySQL Server on Slave 2 hosts: slave2 become: yes tasks: - name: Update apt cache apt: update_cache: yes - name: Install MySQL Server apt:

name: mysql-server

state: present

so now you can run the playbook by using the ansible-playbook

ls

```
sudo apt install software-properties-common
50 sudo apt-add-repository ppa:ansible/ansible
51 sudo apt-get upgrade
   ssh ubuntu@13.233.200.36
52
53
   clear
54
  cd .ssh
55
   ls
56
   cat id rsa.pub
57
   ssh-keygen
58
   ls
59 cat id rsa.pub
60 ssh ubuntu@13.233.200.36
61
   cat id rsa.pub
62
   ssh ubuntu@13.233.200.36
63
   ls
64
   exit
```

So we can exextive the command to ssh keys to ansible to access the nodes

Assignment-4

Tasks To Be Performed	e Performed:
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- 1. Use the previous deployment of Ansible cluster
- 2. Configure the files folder in the role with index.html

which should be replaced with the original index.html

All of the above should only happen on the slave which has NGINX installed using the role.

Ans:

So now create the ansible the playbook with a conditional task and role directory structure

So now typ---

- name: Copy index.html to NGINX server

hosts: nginx_server # Replace with the actual group or host that has NGINX installed

become: yes

tasks:

- name: Copy index.html

copy:

src: files/index.html

dest: /usr/share/nginx/html/index.html # Modify the destination path as needed

notify:

- Restart NGINX

handlers:

- name: Restart NGINX

service:

name: nginx

state: restartede the index.html for file floder directory

```
- name: Copy index.html to NGINX server
hosts: nginx_server # Replace with the actual group or host
become: yes

tasks:
    - name: Copy index.html
    copy:
        src: files/index.html
        dest: /usr/share/nginx/html/index.html # Modify the conotify:
        - Restart NGINX

handlers:
    - name: Restart NGINX
service:
        name: nginx
```

Next create the file in the ssh key to generate th html floder to create the task with

Nginx installed in the place of nginx host

```
86
   main.yml
   main.yaml
87
88
   ansible-playbook index.yaml
   ansible-playbook play.yaml
89
90 sudo nano index.html
91
   sudo nano configure index.html
92
   clear
93
   ansible-playbook -i inventory.ini configure index.yml
   ansible-playbook index.html
94
```

So create the role of the index of nginx server

- name: Configure index.html on NGINX server

hosts: cluster become: yes

roles:

- my_role

In last command to check the ansible-playbook to config_index.yml

When we run in ip address nginx we can run directly in with index.html