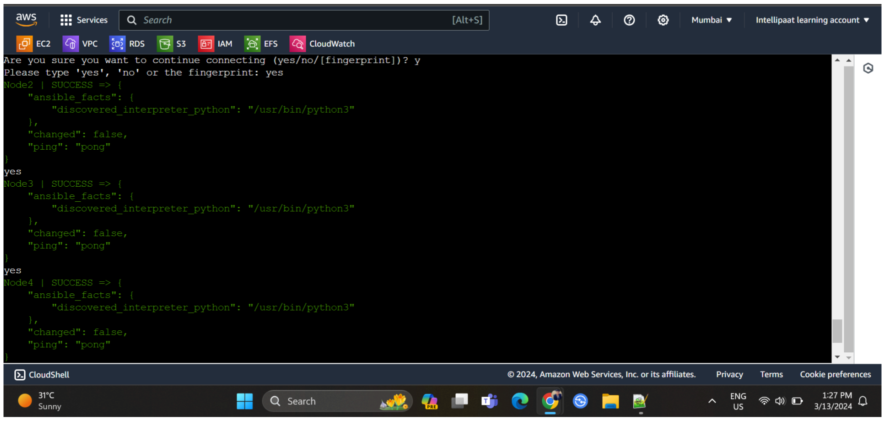
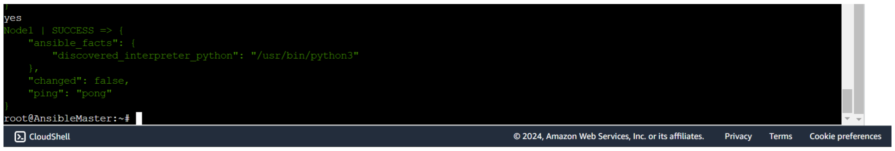
Module-6: Ansible Assignment - 5

You have been asked to:

- Create a new deployment of ansible cluster of 5 nodes

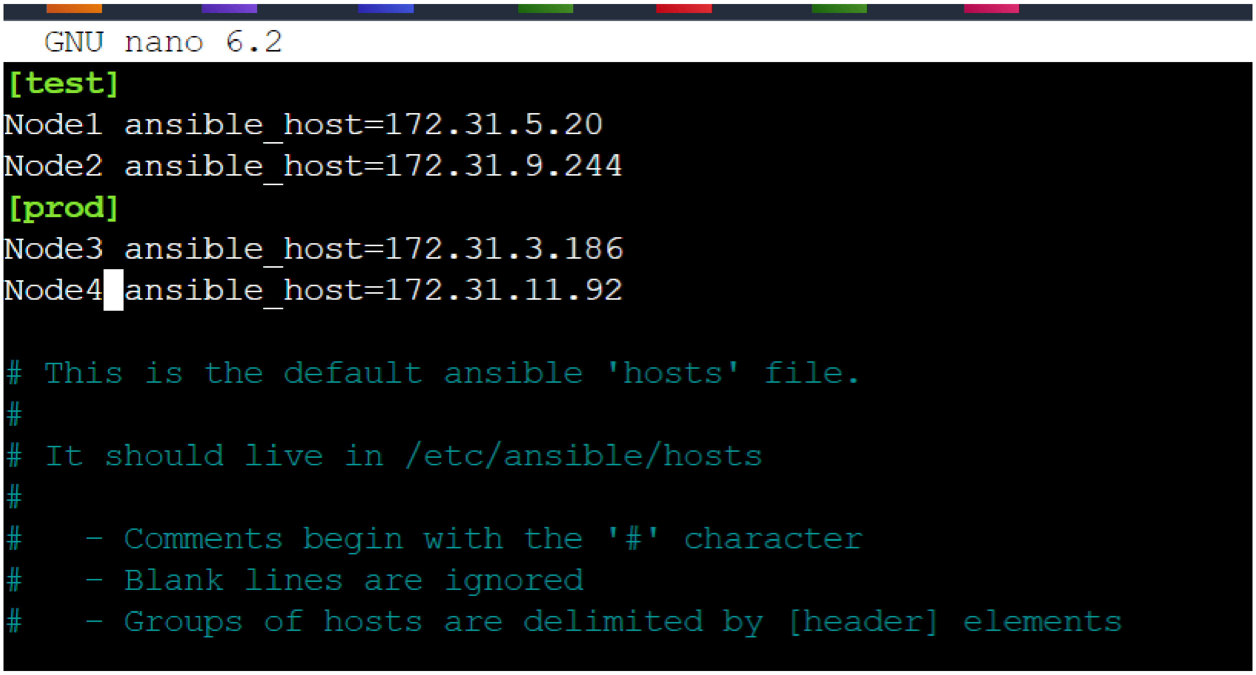


```
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Node2 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": false,
    "ping": "pong"
}
yes
Node3 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": false,
    "ping": "pong"
}
yes
Node4 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": false,
    "ping": "pong"
}
```

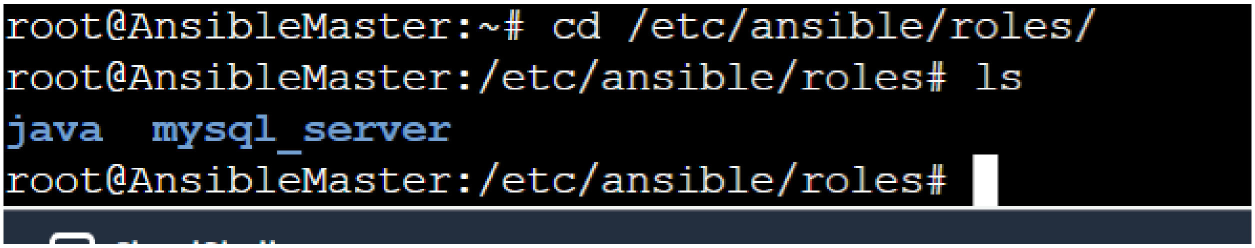


```
}
yes
Node1 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": false,
    "ping": "pong"
}
root@AnsibleMaster:~#
```

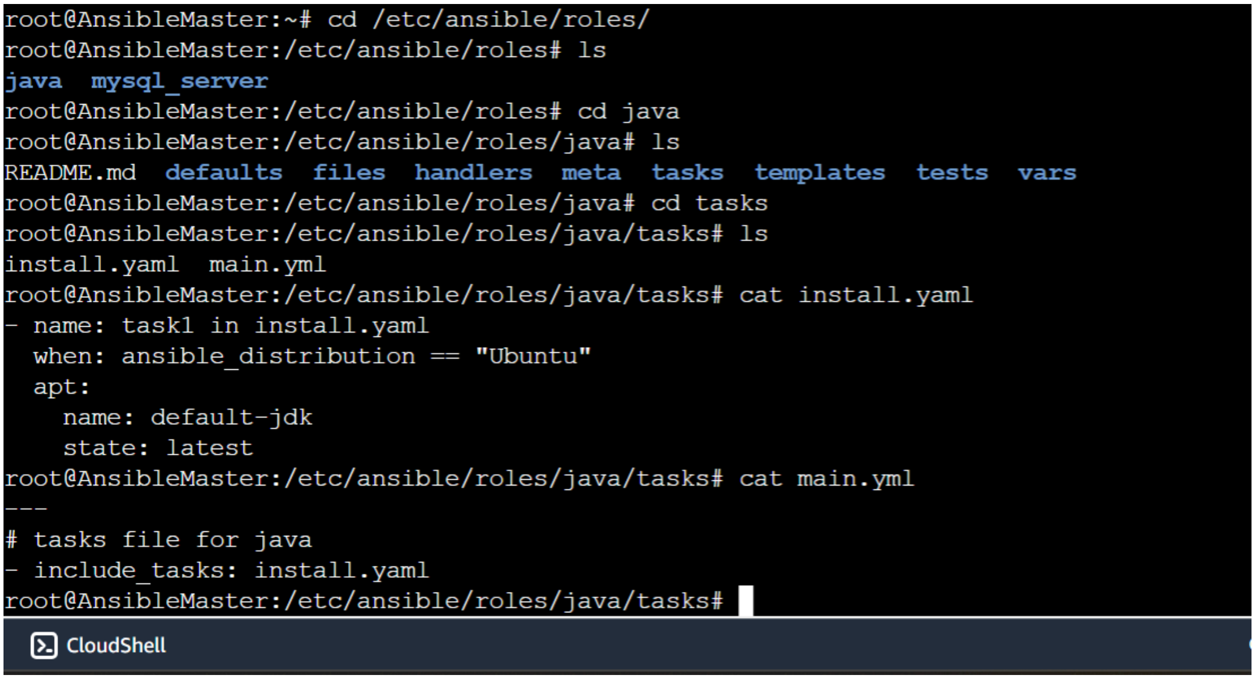
- Label 2 nodes as test and other 2 as prod



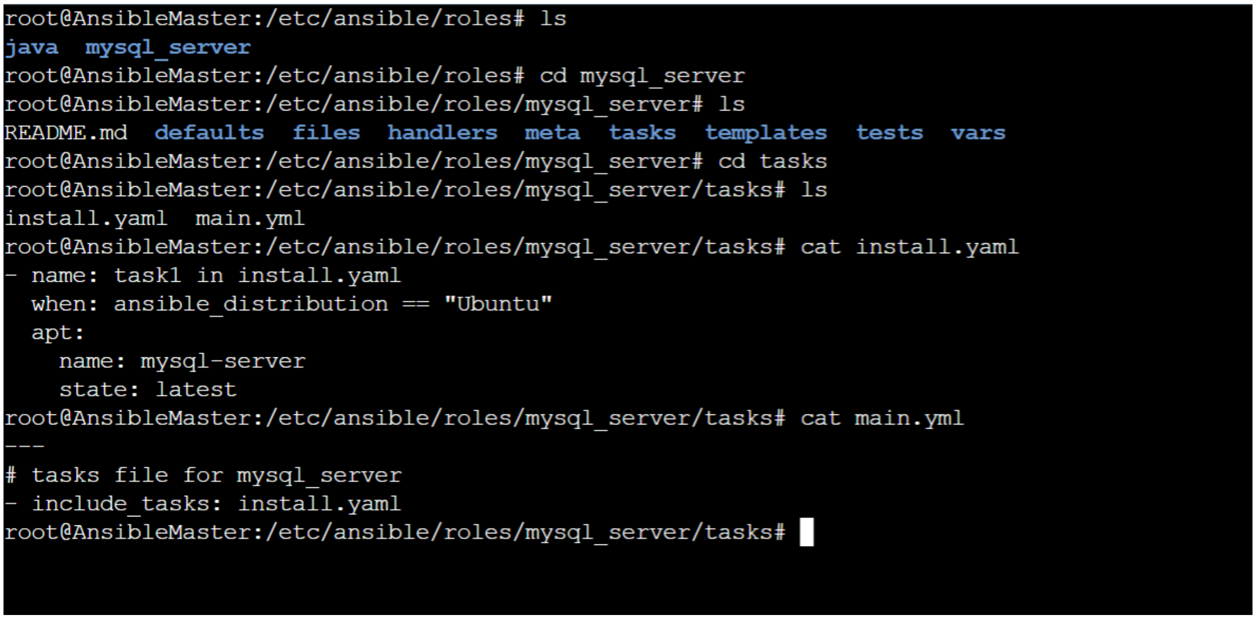
```
[test]
Node1 ansible_host=172.31.5.20
Node2 ansible_host=172.31.9.244
[prod]
Node3 ansible_host=172.31.3.186
Node4 ansible_host=172.31.11.92

# This is the default ansible 'hosts' file.
#
# It should live in /etc/ansible/hosts
#
#   - Comments begin with the '#' character
#   - Blank lines are ignored
#   - Groups of hosts are delimited by [header] elements
```



```
root@AnsibleMaster:~# cd /etc/ansible/roles/
root@AnsibleMaster:/etc/ansible/roles# ls
java  mysql_server
root@AnsibleMaster:/etc/ansible/roles# 
```



```
root@AnsibleMaster:~# cd /etc/ansible/roles/
root@AnsibleMaster:/etc/ansible/roles# ls
java  mysql_server
root@AnsibleMaster:/etc/ansible/roles# cd java
root@AnsibleMaster:/etc/ansible/roles/java# ls
README.md  defaults  files  handlers  meta  tasks  templates  tests  vars
root@AnsibleMaster:/etc/ansible/roles/java# cd tasks
root@AnsibleMaster:/etc/ansible/roles/java/tasks# ls
install.yaml  main.yml
root@AnsibleMaster:/etc/ansible/roles/java/tasks# cat install.yaml
- name: task1 in install.yaml
  when: ansible_distribution == "Ubuntu"
  apt:
    name: default-jdk
    state: latest
root@AnsibleMaster:/etc/ansible/roles/java/tasks# cat main.yml
---
# tasks file for java
- include_tasks: install.yaml
root@AnsibleMaster:/etc/ansible/roles/java/tasks# 
```

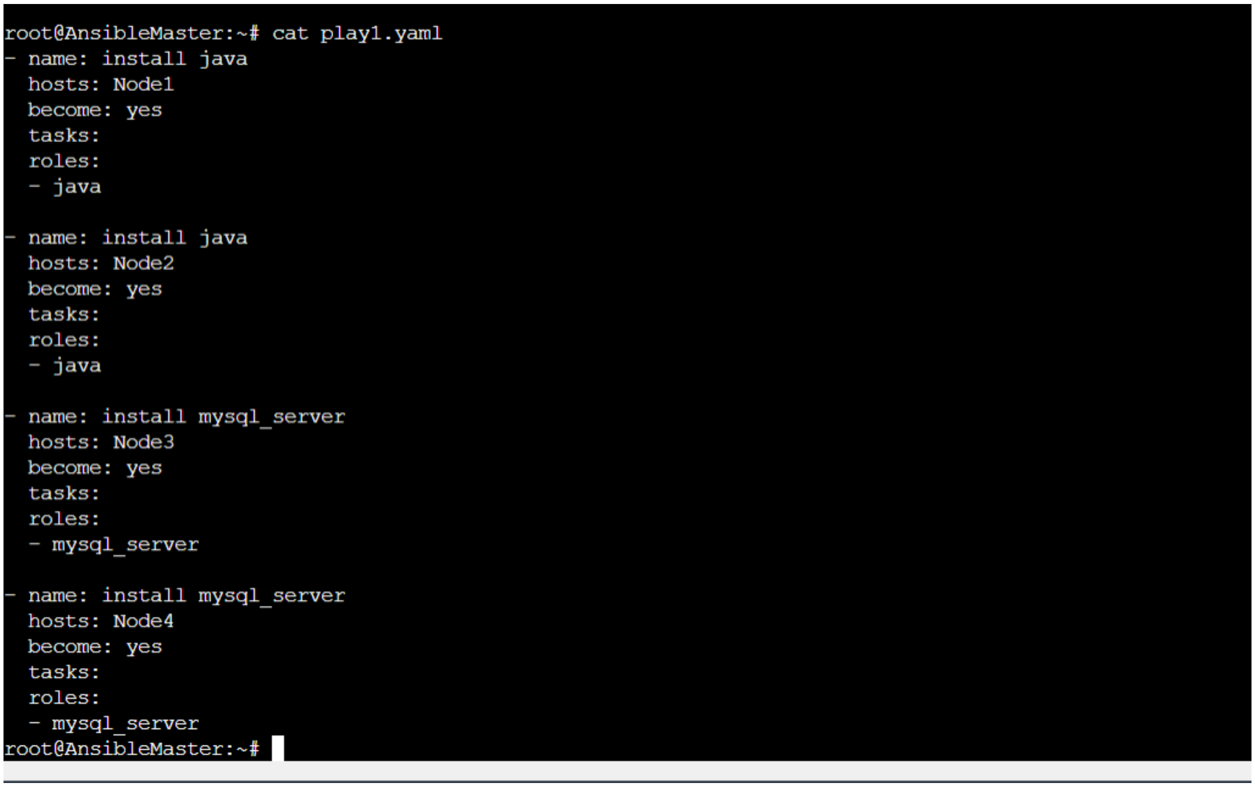


```
root@AnsibleMaster:/etc/ansible/roles# ls
java  mysql_server
root@AnsibleMaster:/etc/ansible/roles# cd mysql_server
root@AnsibleMaster:/etc/ansible/roles/mysql_server# ls
README.md  defaults  files  handlers  meta  tasks  templates  tests  vars
root@AnsibleMaster:/etc/ansible/roles/mysql_server# cd tasks
root@AnsibleMaster:/etc/ansible/roles/mysql_server/tasks# ls
install.yaml  main.yml
root@AnsibleMaster:/etc/ansible/roles/mysql_server/tasks# cat install.yaml
- name: task1 in install.yaml
  when: ansible_distribution == "Ubuntu"
  apt:
    name: mysql-server
    state: latest
root@AnsibleMaster:/etc/ansible/roles/mysql_server/tasks# cat main.yml
---
# tasks file for mysql_server
- include_tasks: install.yaml
root@AnsibleMaster:/etc/ansible/roles/mysql_server/tasks# 
```

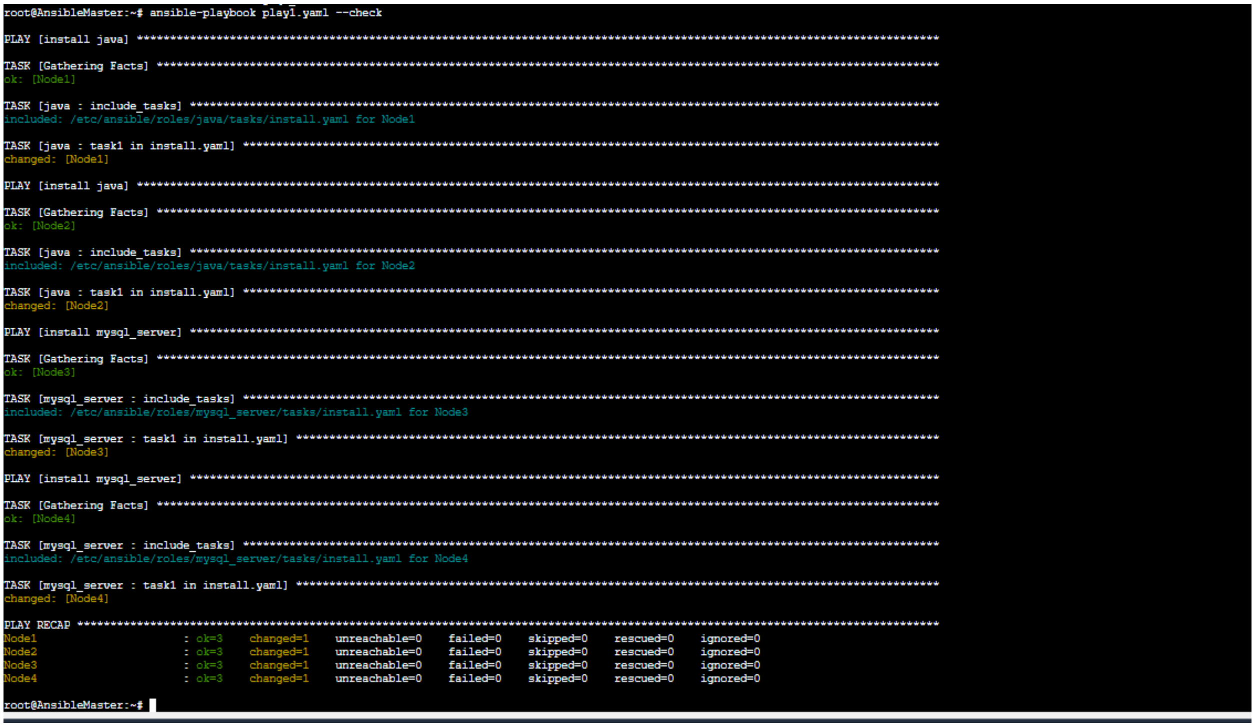
- Install java on test nodes

- Install mysql-server on prod nodes

Use Anisble roles for the above, group the hosts under test and prod



```
root@AnsibleMaster:~# cat play1.yaml
- name: install java
  hosts: Node1
  become: yes
  tasks:
  roles:
  - java

- name: install java
  hosts: Node2
  become: yes
  tasks:
  roles:
  - java

- name: install mysql_server
  hosts: Node3
  become: yes
  tasks:
  roles:
  - mysql_server

- name: install mysql_server
  hosts: Node4
  become: yes
  tasks:
  roles:
  - mysql_server
root@AnsibleMaster:~#
```



```
root@AnsibleMaster:~# ansible-playbook play1.yaml --check

PLAY [install java] *************************************************************************************************************************

TASK [Gathering Facts] **********************************************************************************************************************
ok: [Node1]

TASK [java : include_tasks] *****************************************************************************************************************
included: /etc/ansible/roles/java/tasks/install.yaml for Node1

TASK [java : task1 in install.yaml] *********************************************************************************************************
changed: [Node1]

PLAY [install java] *************************************************************************************************************************

TASK [Gathering Facts] **********************************************************************************************************************
ok: [Node2]

TASK [java : include_tasks] *****************************************************************************************************************
included: /etc/ansible/roles/java/tasks/install.yaml for Node2

TASK [java : task1 in install.yaml] *********************************************************************************************************
changed: [Node2]

PLAY [install mysql_server] *****************************************************************************************************************

TASK [Gathering Facts] **********************************************************************************************************************
ok: [Node3]

TASK [mysql_server : include_tasks] *********************************************************************************************************
included: /etc/ansible/roles/mysql_server/tasks/install.yaml for Node3

TASK [mysql_server : task1 in install.yaml] *************************************************************************************************
changed: [Node3]

PLAY [install mysql_server] *****************************************************************************************************************

TASK [Gathering Facts] **********************************************************************************************************************
ok: [Node4]

TASK [mysql_server : include_tasks] *********************************************************************************************************
included: /etc/ansible/roles/mysql_server/tasks/install.yaml for Node4

TASK [mysql_server : task1 in install.yaml] *************************************************************************************************
changed: [Node4]

PLAY RECAP **********************************************************************************************************************************
Node1                      : ok=3    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
Node2                      : ok=3    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
Node3                      : ok=3    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
Node4                      : ok=3    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

root@AnsibleMaster:~#
```