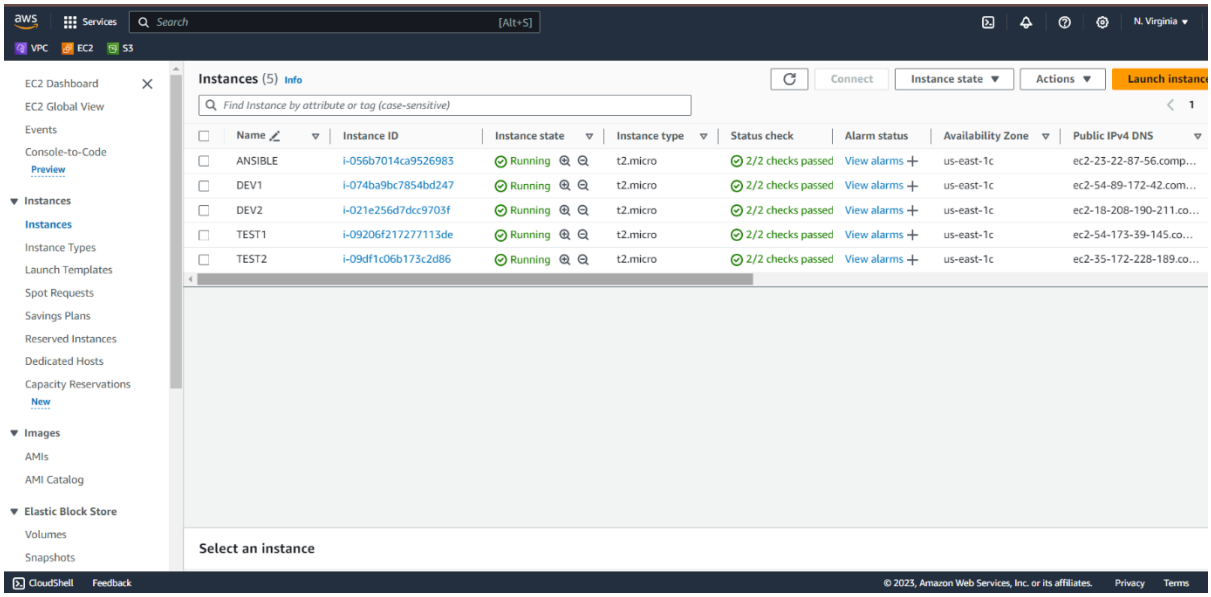
Task 1: Setting up Ansible Master and Slave Cluster

Objective: Create an Ansible Master and Slave Cluster with nodes named dev1, dev2, test1, and test2.

Task 1 Subtasks:

Set up Ansible Master and Slave Cluster with the following nodes:

- dev1
- dev2
- test1
- test2



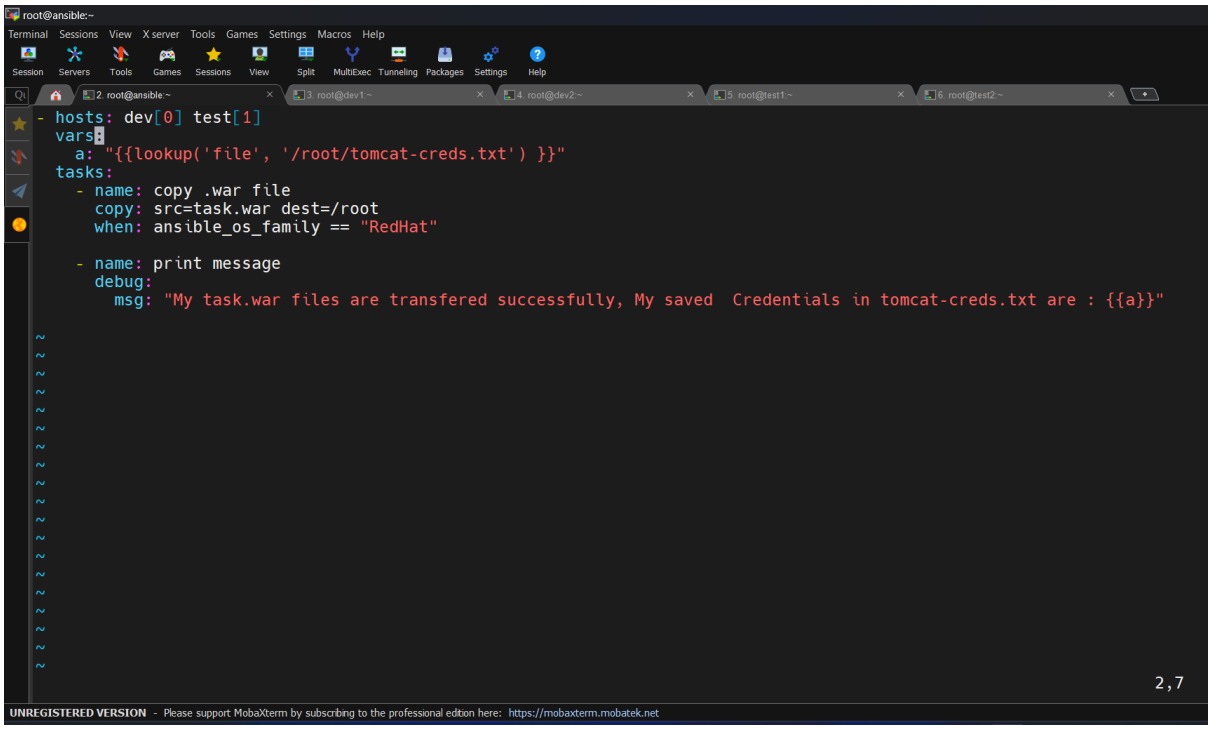
Objective: Write a playbook to transfer a .war file to dev1 and test2 nodes. Transfer should only occur if the node's operating system family is RedHat. Print a success message, extracting information from a .txt file.

Task 1 Subtasks:

a. Write an Ansible playbook to transfer a .war file.

b. Ensure that the transfer only occurs if the node's operating system family is RedHat.

c. Print a success message, extracting information from a .txt file


root@ansible:~
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
2. root@ansible:~
3. root@dev1:~
4. root@dev2:~
5. root@test1:~
6. root@test2:~
- hosts: dev[0] test[1]
vars:
a: "{{lookup('file', '/root/tomcat-creds.txt') }}"
tasks:
- name: copy .war file
copy: src=task.war dest=/root
when: ansible_os_family == "RedHat"
- name: print message
debug:
msg: "My task.war files are transfered successfully, My saved Credentials in tomcat-creds.txt are : {{a}}"
2,7
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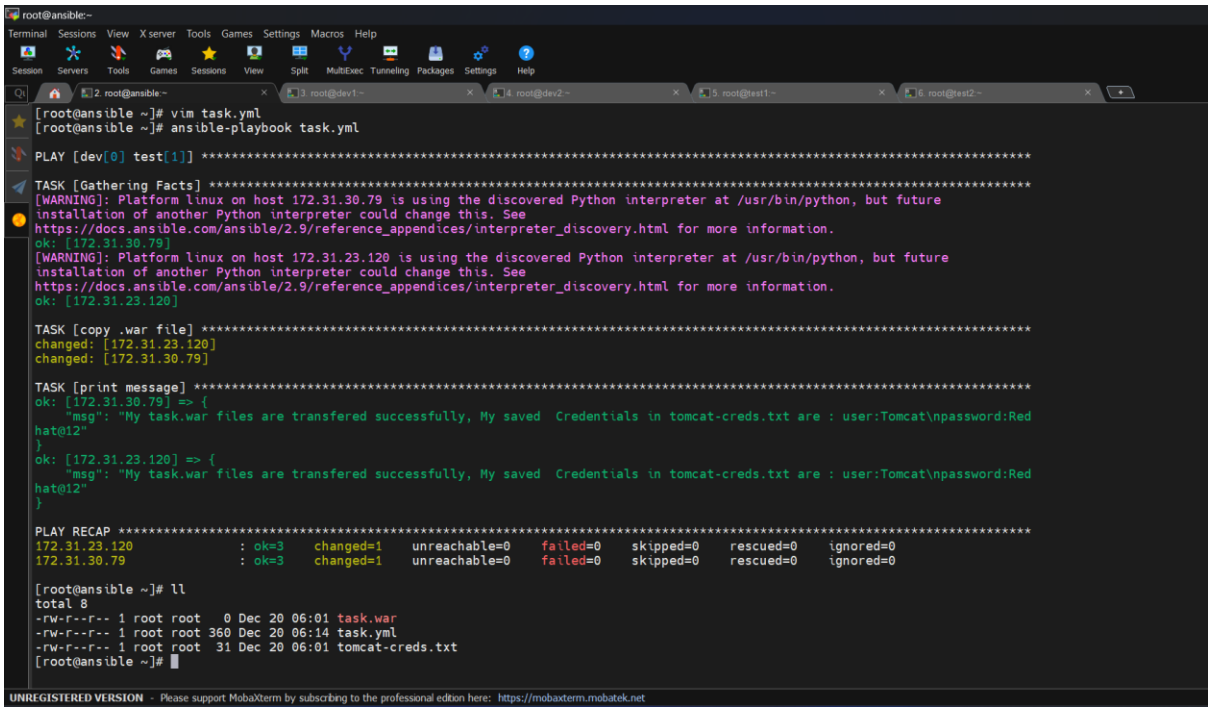
root@ansible:~
[root@ansible ~]# vim task.yml
[root@ansible ~]# ansible-playbook task.yml
PLAY [dev[0] test[1]] ***
TASK [Gathering Facts] ***
[WARNING]: Platform linux on host 172.31.30.79 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.30.79]
[WARNING]: Platform linux on host 172.31.23.120 is using the discovered Python interpreter at /usr/bin/python, but future
installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.23.120]
TASK [copy .war file] ***
changed: [172.31.23.120]
changed: [172.31.30.79]
TASK [print message] ***
ok: [172.31.30.79] => {
"msg": "My task.war files are transfered successfully, My saved Credentials in tomcat-creds.txt are : user:Tomcat\npassword:Red
hat@12"
}
ok: [172.31.23.120] => {
"msg": "My task.war files are transfered successfully, My saved Credentials in tomcat-creds.txt are : user:Tomcat\npassword:Red
hat@12"
}
PLAY RECAP ***
172.31.23.120 : ok=3 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
172.31.30.79 : ok=3 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
[root@ansible ~]# ll
total 8
-rw-r--r-- 1 root root 0 Dec 20 06:01 task.war
-rw-r--r-- 1 root root 360 Dec 20 06:14 task.yml
-rw-r--r-- 1 root root 31 Dec 20 06:01 tomcat-creds.txt
[root@ansible ~]#
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Task 2: Install Software on Cluster Nodes

Objective: Use variables in an Ansible playbook to install software on specific nodes. Install Apache on dev1, MySQL on dev2, Python on test1, and Numpy/Pandas on test2.

Task 2 Subtasks:

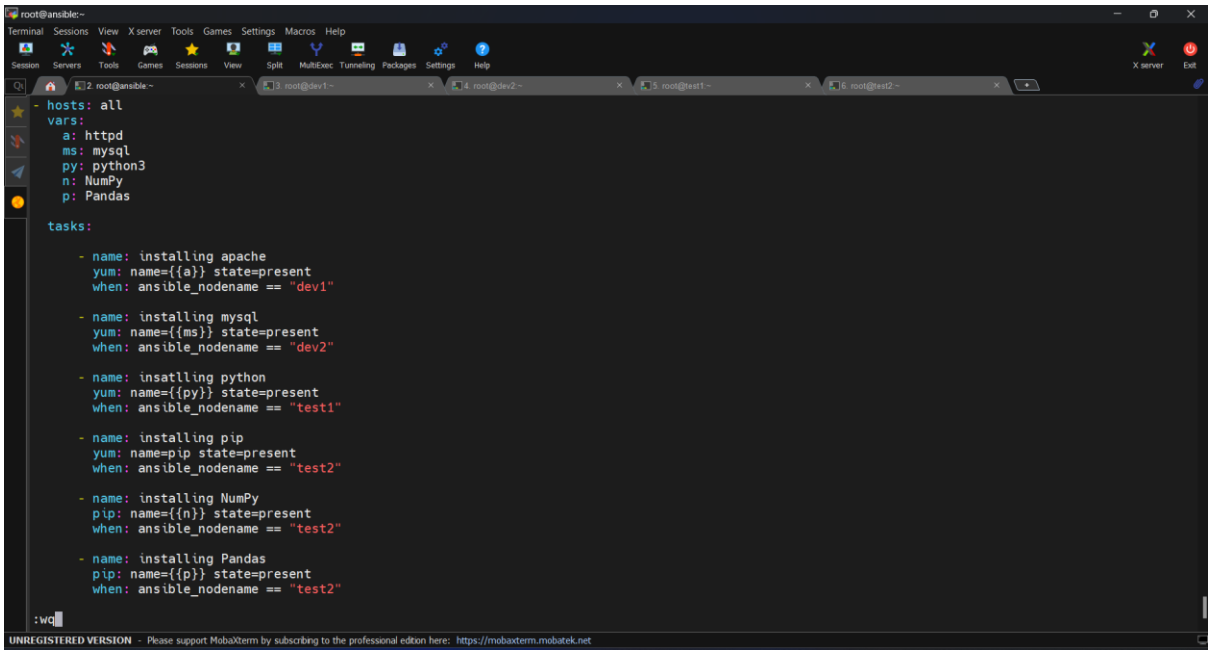
a. Create an Ansible playbook using variables.

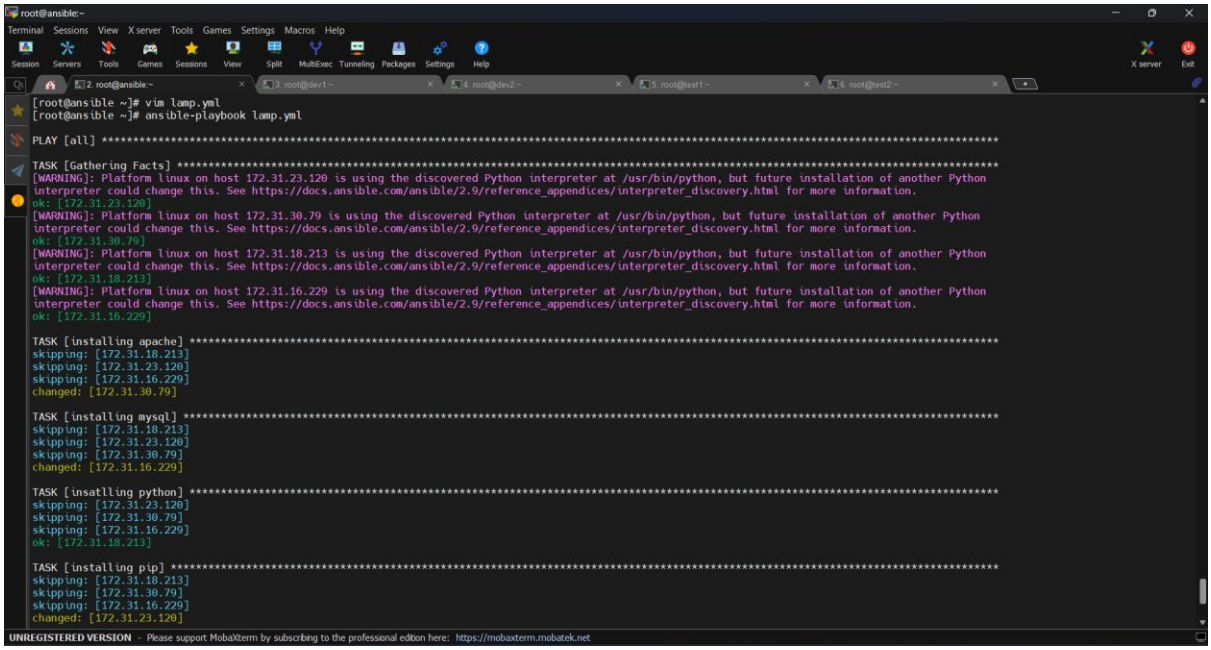
b. Install Apache on dev1 nod

c. Install MySQL on dev2 node.

d. Install Python on test1 node

e. Install Numpy and Pandas on test2 node.




root@ansible:~
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
2 root@ansible:~
3 root@dev1:~
4 root@dev2:~
5 root@test1:~
6 root@test2:~
[root@ansible ~]# vim lamp.yml
[root@ansible ~]# ansible-playbook lamp.yml
PLAY [all] ***
TASK [Gathering Facts] ***
[WARNING]: Platform linux on host 172.31.23.120 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.23.120]
[WARNING]: Platform linux on host 172.31.30.79 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.30.79]
[WARNING]: Platform linux on host 172.31.18.213 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.18.213]
[WARNING]: Platform linux on host 172.31.16.229 is using the discovered Python interpreter at /usr/bin/python, but future installation of another Python interpreter could change this. See https://docs.ansible.com/ansible/2.9/reference_appendices/interpreter_discovery.html for more information.
ok: [172.31.16.229]
TASK [installing apache] ***
skipping: [172.31.18.213]
skipping: [172.31.23.120]
skipping: [172.31.16.229]
changed: [172.31.30.79]
TASK [installing mysql] **
skipping: [172.31.18.213]
skipping: [172.31.23.120]
skipping: [172.31.30.79]
changed: [172.31.16.229]
TASK [insatlling python] ***
skipping: [172.31.23.120]
skipping: [172.31.30.79]
skipping: [172.31.16.229]
ok: [172.31.18.213]
TASK [installing pip] **
skipping: [172.31.18.213]
skipping: [172.31.30.79]
skipping: [172.31.16.229]
changed: [172.31.23.120]
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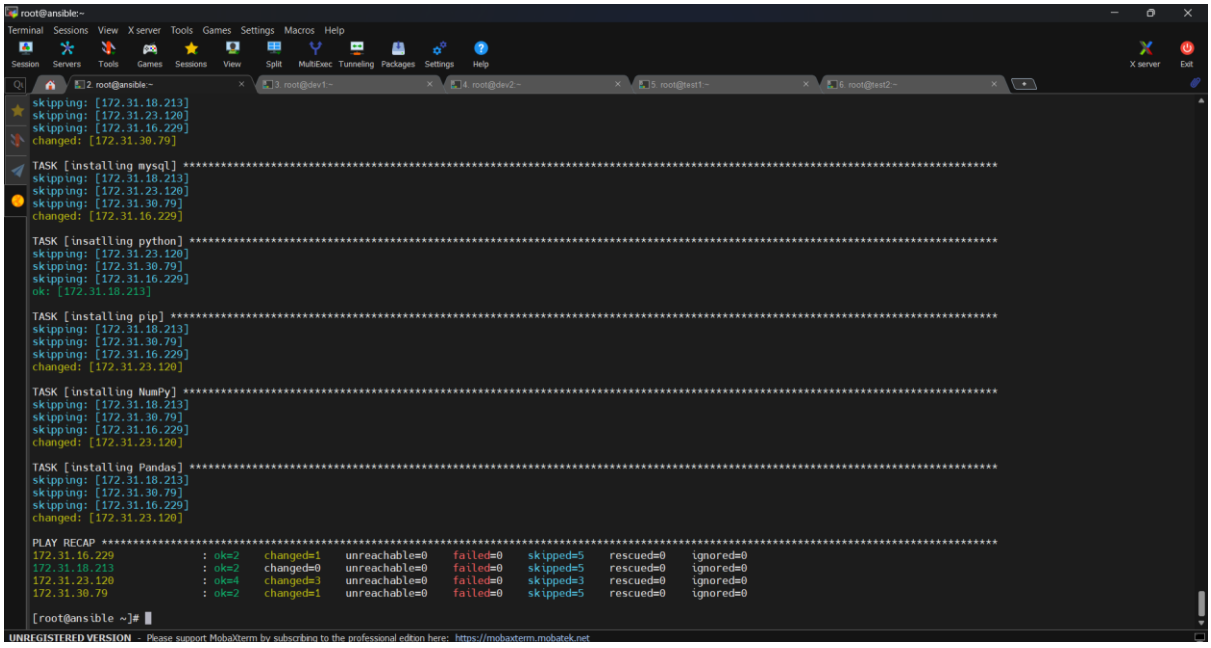
root@ansible:~
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
2 root@ansible:~
3 root@dev1:~
4 root@dev2:~
5 root@test1:~
6 root@test2:~
skipping: [172.31.18.213]
skipping: [172.31.23.120]
skipping: [172.31.16.229]
changed: [172.31.30.79]
TASK [installing mysql] **
skipping: [172.31.18.213]
skipping: [172.31.23.120]
skipping: [172.31.30.79]
changed: [172.31.16.229]
TASK [insatlling python] ***
skipping: [172.31.23.120]
skipping: [172.31.30.79]
skipping: [172.31.16.229]
ok: [172.31.18.213]
TASK [installing pip] **
skipping: [172.31.18.213]
skipping: [172.31.30.79]
skipping: [172.31.16.229]
changed: [172.31.23.120]
TASK [installing NumPy] **
skipping: [172.31.18.213]
skipping: [172.31.30.79]
skipping: [172.31.16.229]
changed: [172.31.23.120]
TASK [installing Pandas] ***
skipping: [172.31.18.213]
skipping: [172.31.30.79]
skipping: [172.31.16.229]
changed: [172.31.23.120]
PLAY RECAP ***
172.31.16.229 : ok=2 changed=1 unreachable=0 failed=0 skipped=5 rescued=0 ignored=0
172.31.18.213 : ok=2 changed=0 unreachable=0 failed=0 skipped=5 rescued=0 ignored=0
172.31.23.120 : ok=4 changed=3 unreachable=0 failed=0 skipped=3 rescued=0 ignored=0
172.31.30.79 : ok=2 changed=1 unreachable=0 failed=0 skipped=5 rescued=0 ignored=0
[root@ansible ~]#
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