Question:

Create an Ansible role that installs Python3 and deploys a custom configuration file for the application. Task:

i. Create an Ansible Role named python_app_deploy with the correct directory structure.

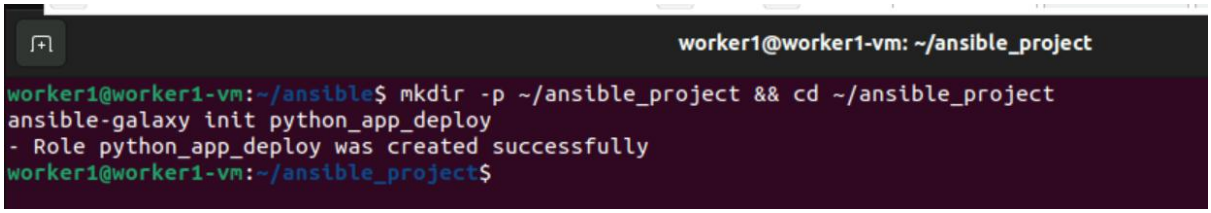
ii. Ensure Python3 is installed as part of the role.

iii. Place a template file named config.yml.j2 inside the templates/ directory.

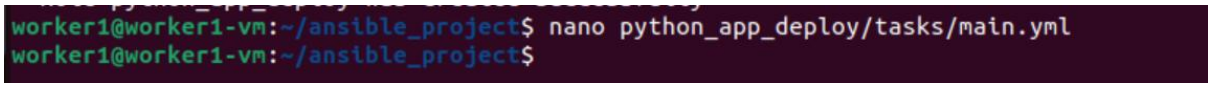
Use the template module in the role to copy config.yml.j2 to /etc/python_app/config.yml on the target machine.

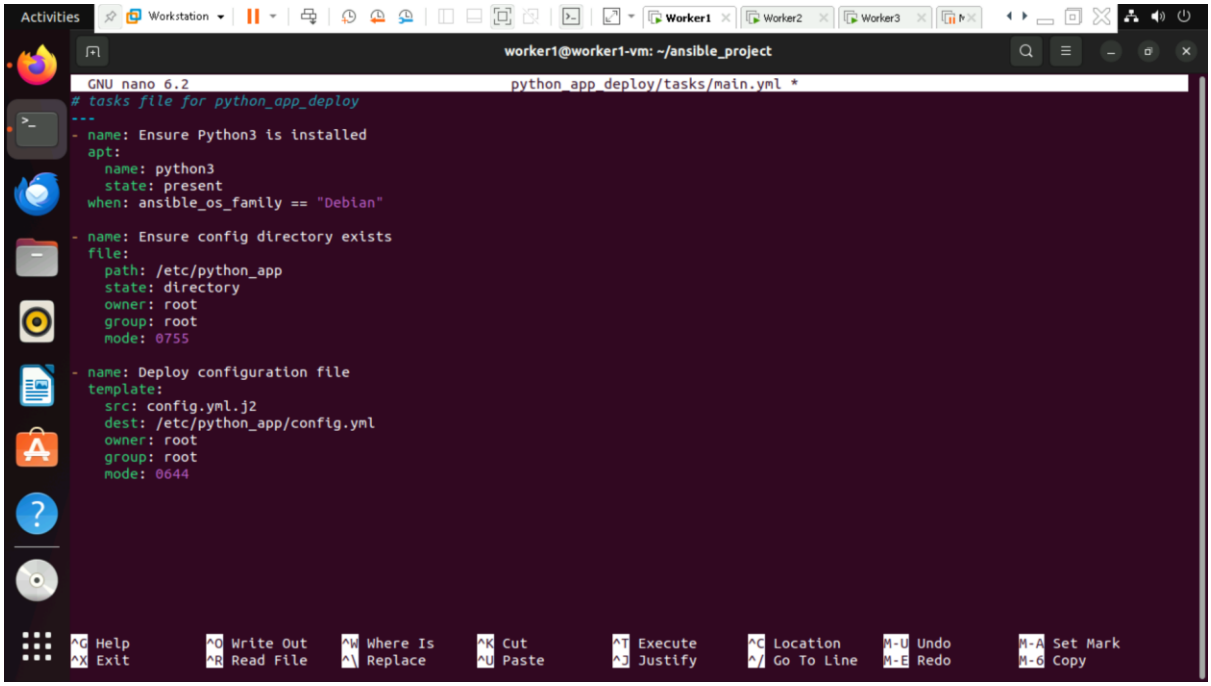
Solution:

1. Create the Role on Worker1

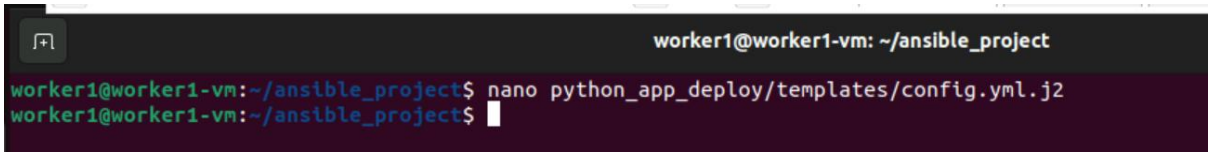


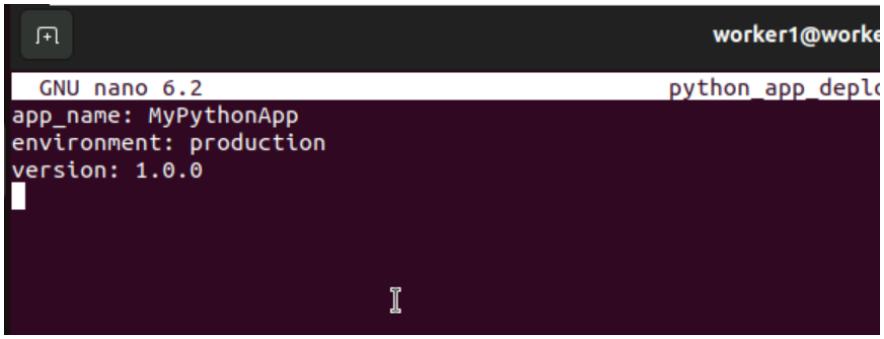
2. Add Task to Install Python3



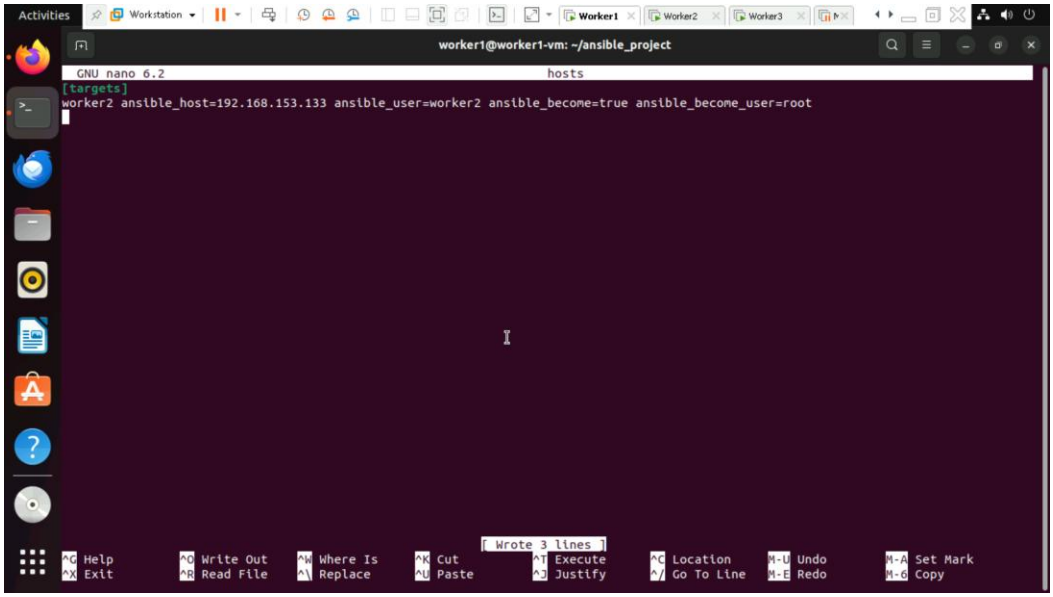


3. Add Template File

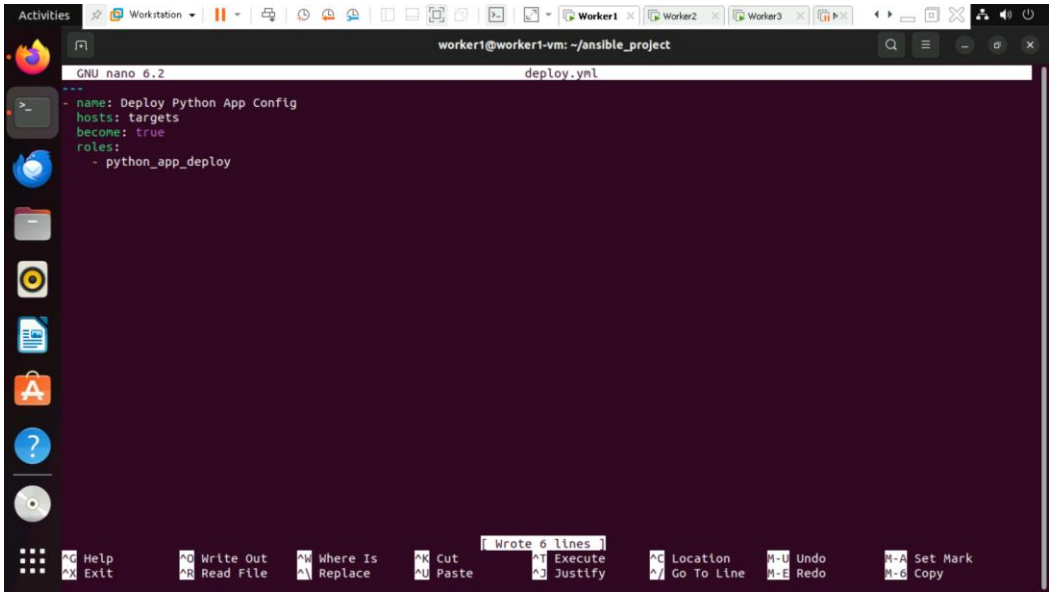




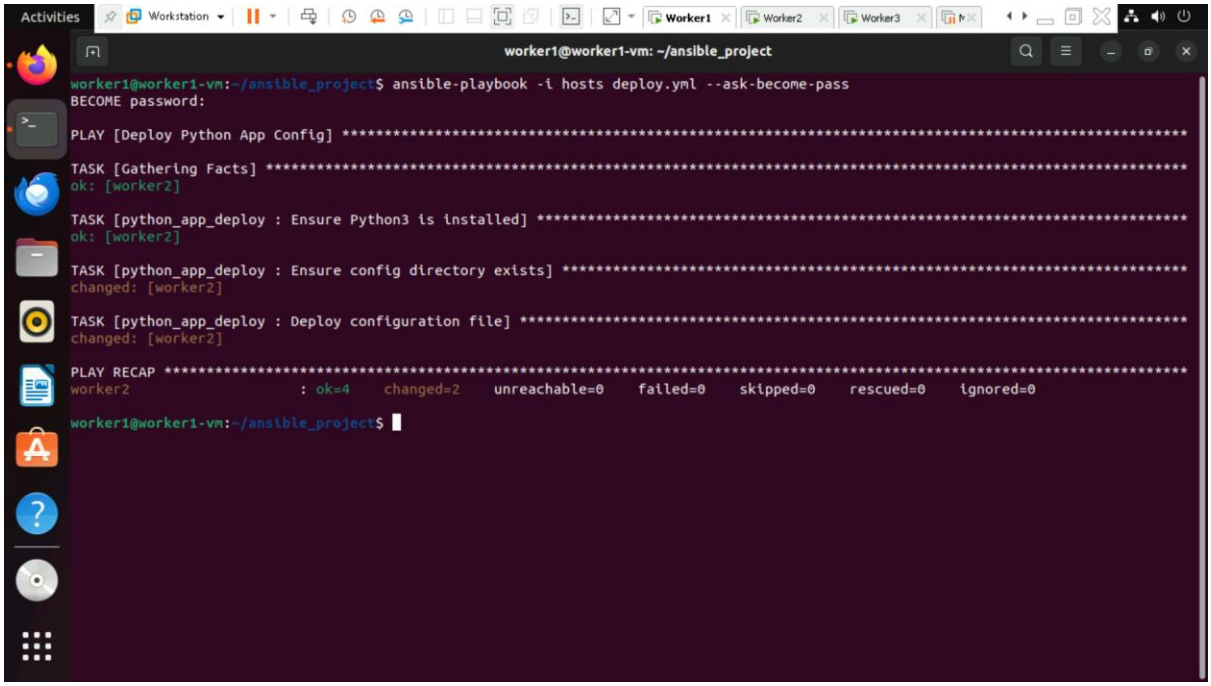
4. Create Inventory file



5. Create Playbook



6. Run the playbook


Activities
Workstation
Worker1
Worker2
Worker3
worker1@worker1-vm: ~/ansible_project
worker1@worker1-vm:~/ansible_project$ ansible-playbook -i hosts deploy.yml --ask-become-pass
BECOME password:
PLAY [Deploy Python App Config] ***
TASK [Gathering Facts] **
ok: [worker2]
TASK [python_app_deploy : Ensure Python3 is installed] **
ok: [worker2]
TASK [python_app_deploy : Ensure config directory exists] ***
changed: [worker2]
TASK [python_app_deploy : Deploy configuration file] **
changed: [worker2]
PLAY RECAP **
worker2 : ok=4 changed=2 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
worker1@worker1-vm:~/ansible_project$