# Q1 ANSIBLE ABDUL SAMIM

## Create the Role on Worker1



```
worker1@worker1-vm:~/ansible$ mkdir -p ~/ansible_project && cd ~/ansible_project
ansible-galaxy init python_app_deploy
- Role python_app_deploy was created successfully
worker1@worker1-vm:~/ansible_project$
```

## Main.yml in tasks



```
GNU nano 6.2                    python_app_deploy/tasks/main.yml *
# tasks file for python_app_deploy
---
- name: Ensure Python3 is installed
  apt:
    name: python3
    state: present
  when: ansible_os_family == "Debian"

- name: Ensure config directory exists
  file:
    path: /etc/python_app
    state: directory
    owner: root
    group: root
    mode: 0755

- name: Deploy configuration file
  template:
    src: config.yml.j2
    dest: /etc/python_app/config.yml
    owner: root
    group: root
    mode: 0644
```
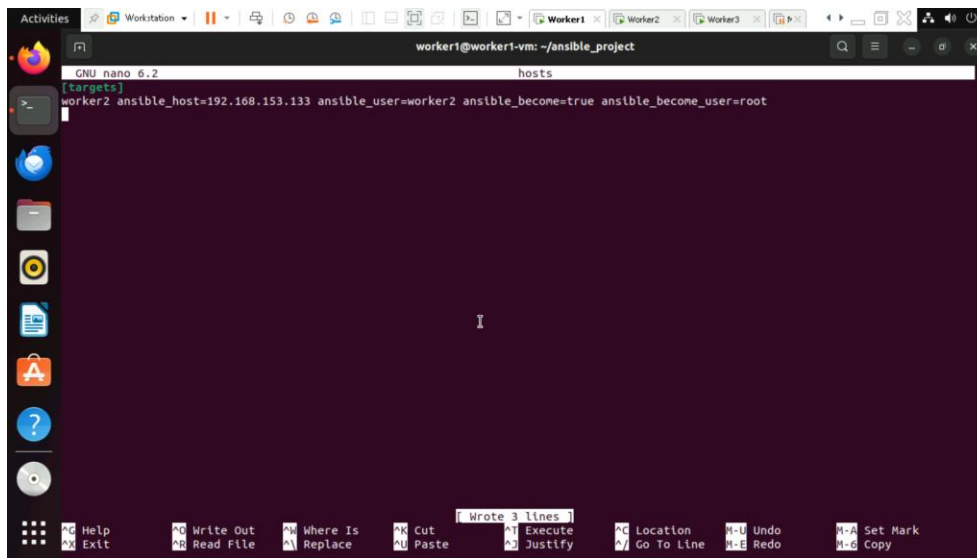
## Template File



```
GNU nano 6.2                    python_app_deplo
app_name: MyPythonApp
environment: production
version: 1.0.0
```
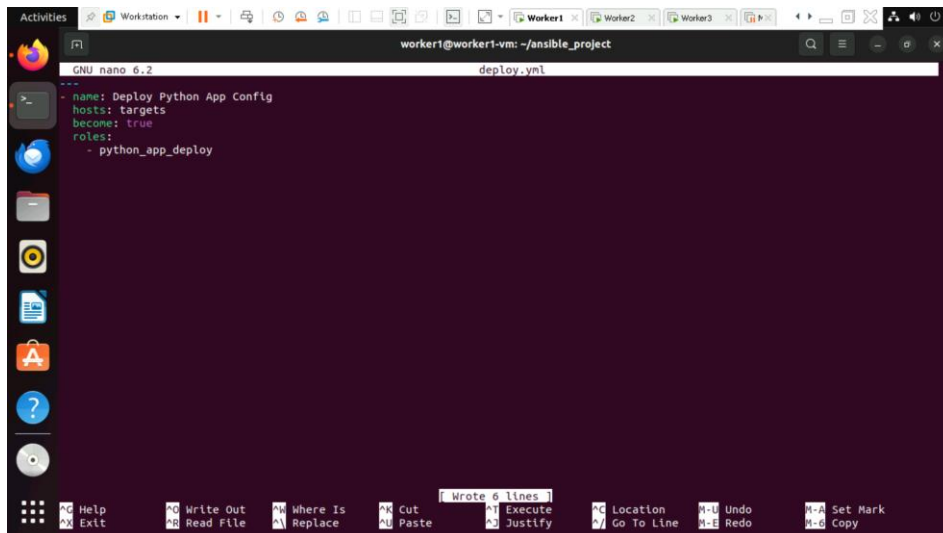
## Inventory



```
GNU nano 6.2                                    hosts
[targets]
worker2 ansible_host=192.168.153.133 ansible_user=worker2 ansible_become=true ansible_become_user=root
```

## Playbook
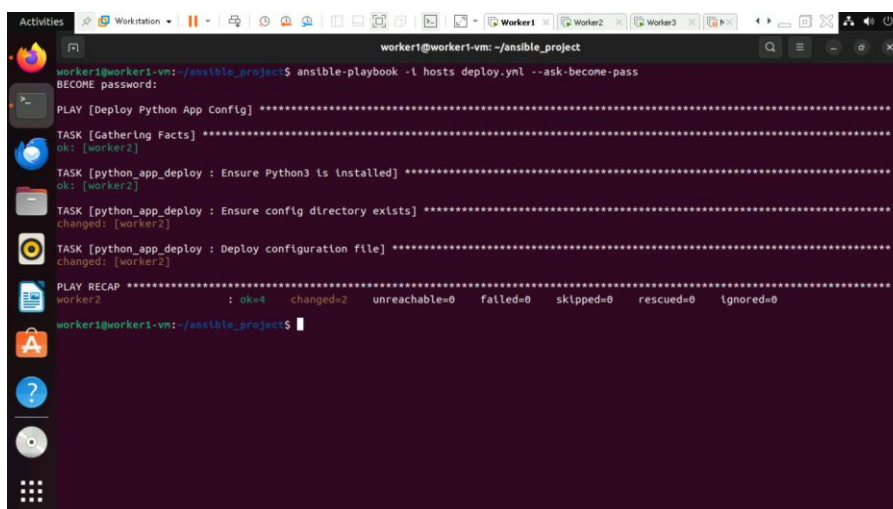


```
GNU nano 6.2                                    deploy.yml
---
- name: Deploy Python App Config
  hosts: targets
  become: true
  roles:
    - python_app_deploy
```

## Run the playbook



```
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$
```

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