

Q1 ANSIBLE ABDUL SAMIM

Create the Role on Worker1

```
worker1@worker1-vm: ~/ansible_project
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

```
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

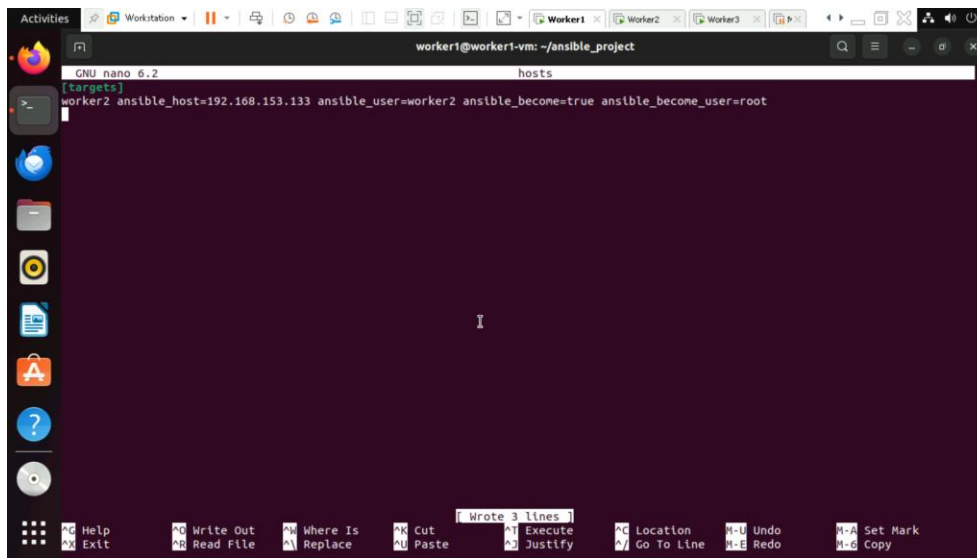
- name: Deploy configuration file
  template:
    src: config.yml.j2
    dest: /etc/python_app/config.yml
    owner: root
    group: root
    mode: 0644
```

Template File

```
python_app_deploy/templates/config.yml.j2
app_name: MyPythonApp
environment: production
version: 1.0.0
```

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Inventory

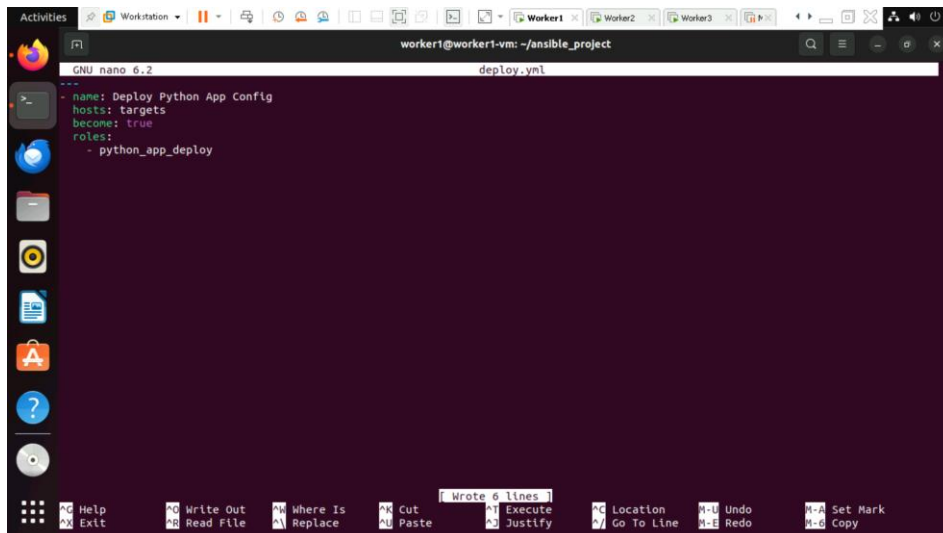


The screenshot shows a terminal window with the title 'worker1@worker1-vm: ~/ansible_project'. The nano editor is open to the 'hosts' file. The content of the file is as follows:

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

The terminal window includes a sidebar with application icons and a bottom status bar with various keyboard shortcuts like 'Ctrl+O Write Out', 'Ctrl+X Exit', etc.

Playbook

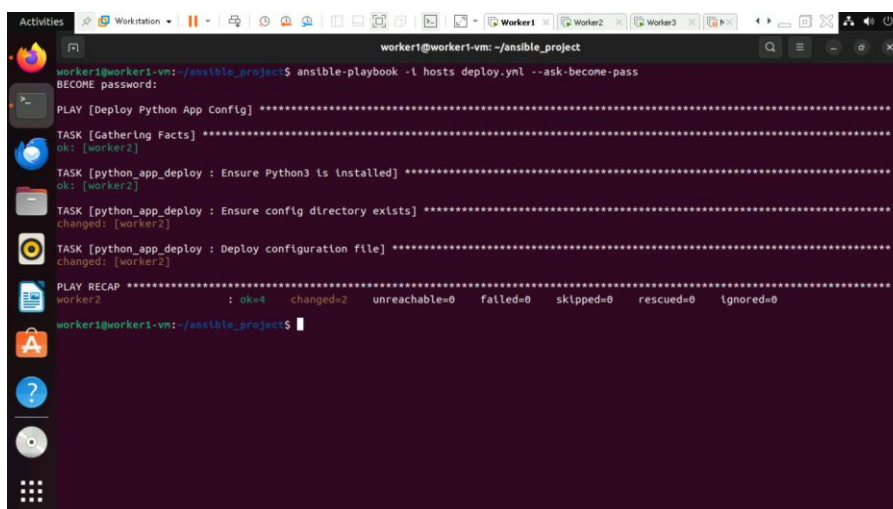


The screenshot shows a terminal window with the title 'worker1@worker1-vm: ~/ansible_project'. The nano editor is open to the 'deploy.yml' file. The content of the file is as follows:

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

The terminal window includes a sidebar with application icons and a bottom status bar with various keyboard shortcuts like 'Ctrl+O Write Out', 'Ctrl+X Exit', etc.

Run the playbook



The screenshot shows a terminal window with the title 'worker1@worker1-vm: ~/ansible_project'. The user has executed the command 'ansible-playbook -i hosts deploy.yml --ask-become-pass'. The output of the command is as follows:

```
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$
```

The terminal window includes a sidebar with application icons and a bottom status bar with various keyboard shortcuts like 'Ctrl+O Write Out', 'Ctrl+X Exit', etc.

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