1) Create a dir: ansible-galaxy init python_app_deploy

2) Creating task main.yml

```
GNU nano 6.2                                    main.yml
---
- name: Check whether Pytho3 is there
  apt:
    name: python3
    state: present
  become: yes

- name: Ensure whether destination directory exists or not
  file:
    path: /etc/python_app
    state: directory
  become: yes

- name: Deploy configuration file
  template:
    src: config.yml.j2
    dest: /etc/python_app/config.yml
  become: yes
```

3) Cofig file

```
dev@master-vm:~/python_app_deploy/templates$ cat config.yml.j2
---
app_name: DevApp
environment: staging
log_level: debug
```

Tree structure

```
dev@master-vm:~/python_app_deploy$ tree
.
├── defaults
│   └── main.yml
├── files
├── handlers
│   └── main.yml
├── meta
│   └── main.yml
├── README.md
├── tasks
│   └── main.yml
├── templates
│   └── config.yml.j2
└── tests
    ├── inventory
    └── test.yml

7 directories, 8 files
```

4) Inventory file

```
dev@master-vm:~$ cat inventory
[webservers]
192.168.153.131

[dbservers]
192.168.153.133
```

5) Creating playbook


```
  GNU nano 6.2                                                q1python.yml
---
- name: python_app_deploy
  hosts: all
  become: yes
  roles:
    - python_app_deploy
```

6) Playbook running


```
dev@master-vm:~$ ansible-playbook -i inventory q1python.yml -K
BECOME password:

PLAY [python_app_deploy] ******************************************************************************************

TASK [Gathering Facts] ********************************************************************************************
[WARNING]: Platform linux on host 192.168.153.133 is using the discovered Python interpreter at /usr/bin/python3.10, but future installation of
another Python interpreter could change the meaning of that path. See https://docs.ansible.com/ansible-
core/2.17/reference_appendices/interpreter_discovery.html for more information.
ok: [192.168.153.133]
[WARNING]: Platform linux on host 192.168.153.131 is using the discovered Python interpreter at /usr/bin/python3.10, but future installation of
another Python interpreter could change the meaning of that path. See https://docs.ansible.com/ansible-
core/2.17/reference_appendices/interpreter_discovery.html for more information.
ok: [192.168.153.131]

TASK [python_app_deploy : Check whether Pytho3 is there] **********************************************************
ok: [192.168.153.133]
ok: [192.168.153.131]

TASK [python_app_deploy : Ensure whether destination directory exists or not] *************************************
changed: [192.168.153.133]
changed: [192.168.153.131]

TASK [python_app_deploy : Deploy configuration file] *************************************************************
changed: [192.168.153.131]
changed: [192.168.153.133]

PLAY RECAP ********************************************************************************************************
192.168.153.131            : ok=4    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
192.168.153.133            : ok=4    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

dev@master-vm:~$
```

Cofig file is copied to /etc/python_app/


```
dev@worker1-vm:~$ cd /etc/python_app/
dev@worker1-vm:/etc/python_app$ ls
config.yml
dev@worker1-vm:/etc/python_app$
```