Ansible

- Install ansible

✓ sudo apt-get update
✓ sudo apt-get upgrade -y
✓ sudo apt install software-properties-common
✓ sudo add-apt-repository --yes --update ppa:ansible/ansible
✓ sudo apt install ansible -y

- Create a test Playbook

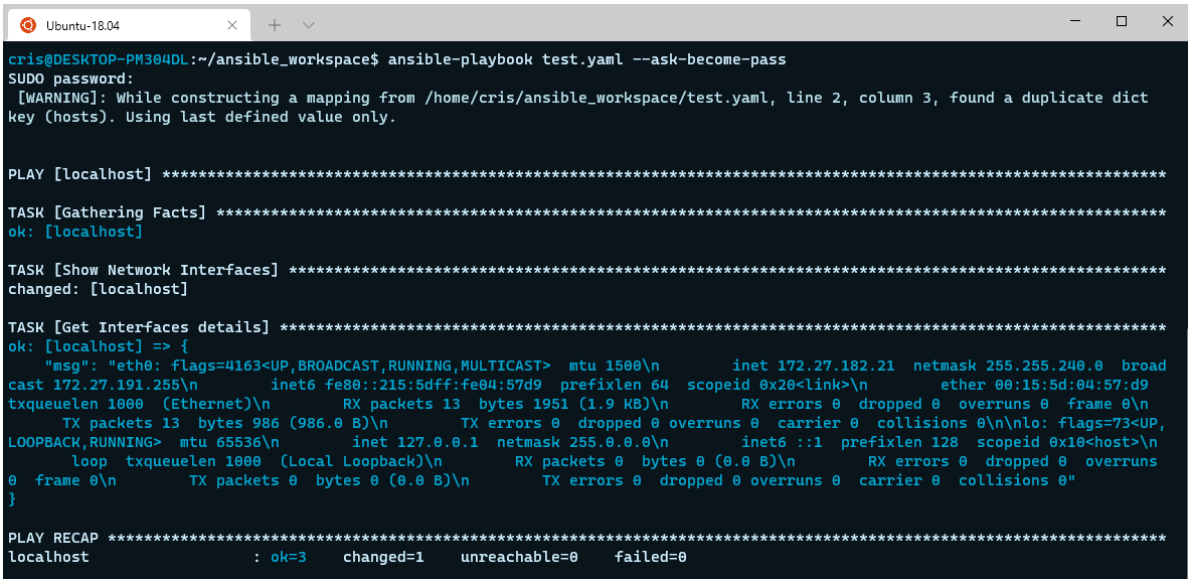
Is important to note that in this case, ansible is being used to configure the localhost so it's important to add the local value into connection parameter (Line 6)

test.yaml

```yaml
1  ---
2  - hosts: all
3    become: true
4    become_method: sudo
5    hosts: localhost
6    connection: local
7    tasks:
8      - name: "Show Network Interfaces"
9        command: ifconfig
10       register: details
11     - name: 'Get Interfaces details'
12       debug:
13         msg: "{{ details.stdout }}"
```

- Execute test.yaml playbook

✓ ansible-playbook test.yaml --ask-become-pass



- Create a Playbook for installing and configuring Apache2

config_apache.yml

```yaml
---
- hosts: all
  become: true
  become_method: sudo
  connection: local
  tasks:
    - name: "Update packages and upgrade"
      apt:
        update_cache: true
        upgrade: dist
        force_apt_get: true
    - name: "Install Apache server"
      apt:
        name: apache2
        state: latest
    - name: "Create document root"
      file:
        path: "/var/www/html"
        state: directory
        owner: "www-data"
        mode: 0755
    - name: "Enable Apache on Firewall"
      ufw:
        rule: allow
        port: 80
        proto: tcp
    - name: "restart apache2 service"
      service:
        name: apache2
        state: restarted
```

- Execute the playbook

✓ ansible-playbook config_apache.yml

```
cris@DESKTOP-PM304DL:~/ansible_workspace$ ansible-playbook config_apache.yml

PLAY [all] *********************************************************************************************************************

TASK [Gathering Facts] *********************************************************************************************************
ok: [172.27.180.84]

TASK [Update packages and upgrade] *********************************************************************************************
changed: [172.27.180.84]

TASK [Install Apache server] ***************************************************************************************************
ok: [172.27.180.84]

TASK [Create document root] ****************************************************************************************************
ok: [172.27.180.84]

TASK [Enable Apache on Firewall] ***********************************************************************************************
ok: [172.27.180.84]

TASK [restart apache2 service] *************************************************************************************************
changed: [172.27.180.84]

PLAY RECAP *********************************************************************************************************************
172.27.180.84              : ok=6    changed=2    unreachable=0    failed=0
```

- Check if the service is running using the web browser