

Lesson 05 Demo 05

Configuring Tasks with Handlers

Objective: To configure an Ansible playbook to execute tasks on localhost and trigger handlers for subsequent actions upon task completion

Tools required: Linux terminal

Prerequisites: None

Steps to be followed:

1. Create the playbook and inventory file
2. Run the playbook

Step 1: Create the playbook and inventory file

- 1.1 Run the following command to create a folder:

mkdir ansible_demo

```
poojahksimplile@ip-172-31-36-118:~$ mkdir ansible_demo
```

- 1.2 Run the following command to navigate inside the **ansible_demo** folder:

cd ansible_demo

```
poojahksimplile@ip-172-31-36-118:~$ cd ansible_demo
```

- 1.3 Run the following command to create a YAML file:

sudo nano simple_playbook.yml

```
poojahksimplile@ip-172-31-36-118:~/ansible_demo$ sudo nano simple_playbook.yml
```

- 1.4 Enter the below script into the **simple_playbook.yml** file to define a task that creates a file at **/tmp/hello_world.txt** on the localhost and notifies a handler to display a debug message:

- name: Simple Demo Playbook

hosts: localhost

tasks:

- name: Create a file

file:

```
path: /tmp/hello_world.txt
state: touch
notify: Restart demo service
```

handlers:

```
- name: Restart demo service
  debug:
    msg: "Handler executed: Restart demo service"
```

```
GNU nano 6.2 simple_playbook.yml
--
- name: Simple Demo Playbook
  hosts: localhost
  tasks:
    - name: Create a file
      file:
        path: /tmp/hello_world.txt
        state: touch
        notify: Restart demo service

  handlers:
    - name: Restart demo service
      debug:
        msg: "Handler executed: Restart demo service"
```

1.5 Run the following command to create an inventory file for specifying the managed hosts:

sudo nano hosts.ini

```
poojahksimplile@ip-172-31-36-118:~/ansible_demo$ sudo nano hosts.ini
poojahksimplile@ip-172-31-36-118:~/ansible_demo$
```

1.6 Enter the below content inside the **hosts.ini** file:

[local]

localhost ansible_connection=local

```
GNU nano 6.2 hosts.ini
[local]
localhost ansible_connection=local
```

Step 2: Run the playbook

2.1 Run the playbook using the following command:

ansible-playbook -i hosts.ini simple_playbook.yml

```
poojahksimplile@ip-172-31-36-118:~/ansible_demo$ ansible-playbook -i hosts.ini simple_playbook.yml
PLAY [Simple Demo Playbook] *****
TASK [Gathering Facts] *****
ok: [localhost]
TASK [Create a file] *****
changed: [localhost]
RUNNING HANDLER [Restart demo service] *****
ok: [localhost] => {
  "msg": "Handler executed: Restart demo service"
}
PLAY RECAP *****
localhost                : ok=3    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

Ansible connects to the hosts specified in the inventory file and executes the tasks defined in the playbook.

By following these steps, you have successfully configured an Ansible playbook to execute tasks on localhost and trigger handlers for subsequent actions upon task completion.