Lesson 06 Demo 04

Running a Playbook Containing Ansible Facts

Objective: To run an Ansible playbook that gathers system facts and installs the latest Apache2 package on Debian-based hosts

Tools required: Linux terminal

Prerequisites: None

Steps to be followed:

1. Run a playbook containing facts

Step 1: Run a playbook containing facts

1.1 Run the following command to create a file:

sudo nano playbook.yaml

```
poojahksimplile@ip-172-31-29-173:~$ sudo nano playbook.yaml
```

1.2 Copy and paste the below script into the playbook.yaml file:

```
---
- hosts: all
  become: yes
  become_user: root
  become_method: sudo
  tasks:
    - name: install update (apt)
      when: ansible_distribution == "Debian"
      package:
        name: apache2
        state: latest
```

```
File  Edit  View  Search  Terminal  Help
  GNU nano 6.2                                                playbook.yaml
---
- name: Store Ansible facts in a variable
  hosts: localhost
  tasks:
    - name: Gather facts
      ansible.builtin.setup:
      register: gathered_facts

    - name: Show the stored facts
      debug:
        var: gathered_facts
```

1.3 Run the following command to execute the Ansible playbook:
ansible-playbook playbook.yaml

```
poojahksimplile@ip-172-31-29-173:~$ ansible-playbook playbook.yaml

PLAY [Store Ansible facts in a variable] ***************************************************************************************

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

TASK [Gather facts] ************************************************************************************************************
ok: [localhost]

TASK [Show the stored facts] ***************************************************************************************************
ok: [localhost] => {
    "gathered_facts": {
        "ansible_facts": {
            "ansible_all_ipv4_addresses": [
                "172.17.0.1",
                "172.31.29.173"
            ],
            "ansible_all_ipv6_addresses": [
                "fe80::8ff:fbff:fedb:8e7d"
            ],
            "ansible_apparmor": {
                "status": "enabled"
            },
            "ansible_architecture": "x86_64",
```

By following these steps, you have successfully run an Ansible playbook that gathers system facts and installs the latest Apache2 package on Debian-based hosts.