Lesson 04 Demo 03 Implementing YAML Anchors and Aliases

Objective: To implement the YAML anchors and aliases in Ansible to efficiently manage and reuse repeated tasks, reducing redundancy and enhancing maintainability in playbooks

Tools required: Linux terminal

Prerequisites: None

Steps to be followed:

1. Create Ansible playbook using YAML anchors and aliases

2. Run the Ansible playbook

Step 1: Create Ansible playbook using YAML anchors and aliases

1.1 Run the following command to create a YAML file:

sudo nano users.yml

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

1.2 Enter the script defining users and their default address using YAML anchors and aliases into the **users.yml** file

users:

- &default_address

address:

street: "123 Main St" city: "Anytown" state: "CA" zip: "12345"

- name: "Alice"

<<: *default_address

- name: "Bob"

<<: *default_address

- name: "Charlie"

<<: *default address

```
GNU nano 6.2
                                                                       users.yml
- &default_address
  address:
   street: "123 Main St"
    city: "Anytown"
   state: "CA"
   zip: "12345"
- name: "Alice"
  <<: *default address
- name: "Bob"
  <<: *default address
- name: "Charlie"
  <<: *default address
```

1.3 Run the following command to create another YAML file: sudo nano create_users.yml

```
poojahksimplile@ip-172-31-36-118:~$ sudo nano create users.yml
poojahksimplile@ip-172-31-36-118:~$
```

1.4 Enter the script to create users using the previously defined default address into the create_users.yml file

- name: Create users with default address hosts: localhost gather_facts: no vars_files: - users.yml tasks: - name: Print user profiles debug: msg: "User {{ item.name }} lives at {{ item.address.street }}, {{ item.address.city }}, {{ item.address.state }} {{ item.address.zip }}"

when: item.name is defined

loop: "{{ users }}"

Step 2: Run the Ansible playbook

2.1 Use the following command to run the Ansible playbook: ansible-playbook create_users.yml

By following these steps, you have successfully implemented the YAML anchors and aliases in Ansible to efficiently manage and reuse repeated tasks, reducing redundancy and enhancing maintainability in playbooks.