

Lesson 05 Demo 03

Executing Loops in a Playbook

Objective: To execute loops in a playbook to iterate over a list of items efficiently in Ansible

Tools required: Linux terminal

Prerequisites: None

Steps to be followed:

1. Create and execute a playbook

Step 1: Create and execute a playbook

- 1.1 Create a playbook file named loops.yaml using the following command:

```
sudo nano loops.yaml
```

```
poojahksimplile@ip-172-31-79-37:~$ sudo nano loops.yaml
poojahksimplile@ip-172-31-79-37:~$
```

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

```
---
- hosts: webserver
  become: true
  tasks:
    - name: loop
      debug:
        msg: "{{ item }}"
      loop:
        - one
        - two
    - name: with_items
      debug:
        msg: "{{ item }}"
      with_items:
        - one
        - two
    - name: with_indexed_items
      debug:
        msg: "{{ item.0 }} - {{ item.1 }}"
      with_indexed_items:
```

- one
- two

```
GNU nano 6.2
--
hosts: webservers
become: true
tasks:
  - name: loop example
    debug:
      msg: "{{ item }}"
    loop:
      - one
      - two

  - name: loop example with previously with_items
    debug:
      msg: "{{ item }}"
    loop:
      - one
      - two

  - name: loop with indexed items
    debug:
      msg: "{{ item.0 }} - {{ item.1 }}"
    loop: "{{ ['one', 'two'] | enumerate }}"

^G Help      ^O Write Out  ^W Where Is   ^K Cut
^X Exit      ^R Read File  ^\ Replace    ^U Paste
```

1.3 Run the following command to execute the playbook:

ansible-playbook loops.yaml

```
poojahksimplile@ip-172-31-79-37:~$ ansible-playbook loops.yaml

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

TASK [loop example] *****
ok: [localhost] => (item=one) => {
  "msg": "one"
}
ok: [localhost] => (item=two) => {
  "msg": "two"
}

TASK [loop example with previously with_items] *****
ok: [localhost] => (item=one) => {
  "msg": "one"
}
ok: [localhost] => (item=two) => {
  "msg": "two"
}
```

By following these steps, you have successfully executed loops in a playbook to iterate over a list of items efficiently in Ansible.