Lesson 07 Demo 02

Implementing Ansible Vault

Objective: To securely manage sensitive files using Ansible Vault, ensuring encryption and protection of sensitive data

Tools required: Python and Ansible

Prerequisites: None

Steps to be performed:
1. Create and edit a vault
2. Reset the password for the vault
3. Execute the YAML file

Step 1: Create and edit a vault

1.1 Run the following command to create a new vault file and add a password for that file:
   ansible-vault create <YAML_filename>

> **Note:** You will be prompted to enter a password

1.2 Run the following command to edit the created file:
   ansible-vault edit <YAML_filename>

> **Note**: You will be prompted to enter a password

1.3 Add the following YAML script in the created Ansible vault file:

--- database_user: my_user

    database_password: my_password

```
--- database_user: my_user
    database_password: my_password
```

> **Note**: To save and exit, press Esc, type :wq, and then press Enter.
> If you just want to add a password to an existing file, run the command
> below: **ansible-vault encrypt <YAML_file>**

Step 2: Reset the password for the vault

2.1 To reset the password for the vault, run the following command:

    ansible-vault rekey <YAML_filename>

```
root@ip-172-31-29-40:/home/darshanmangalda/Desktop/Ansible# ansible-vault rekey ⬛⬛⬛.yml
Vault password:
New Vault password:
Confirm New Vault password:
Rekey successful
root@ip-172-31-29-40:/home/darshanmangalda/Desktop/Ansible#
                                                          Ln 4, Col 1   Spaces: 2   UTF-8   LF   YAML
```

> **Note**: Enter the existing password of the Ansible vault file, then enter the new password

Step 3: Execute the YAML file

3.1 Run the following command to execute the Ansible playbook and prompt for the vault
password:

    ansible-playbook <YAML_filename> –ask-vault-pass

```
root@ip-172-31-29-40:/home/darshanmangalda/Desktop/Ansible# ansible-playbook ⬛⬛⬛.yml --ask-vaul
t-pass
Vault password:
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit
localhost does not match 'all'
```

3.2 Execute the following command to encrypt an existing YAML file:

```
root@ip-172-31-29-40:/home/darshanmangalda/Desktop/Ansible# ansible-vault encrypt ▇▇▇▇▇ yml
New Vault password:
Confirm New Vault password:
ERROR! input is already encrypted
```

By following the above steps, you have successfully created and managed Ansible vaults to securely encrypt and handle sensitive data within your playbooks.