Ansible Vault

Ansible Vault Tutorial

- What is Ansible Vault?

- How to encrypt files using Ansible Vault

- How to view encrypted files

- How to decrypt files

- How to run Ansible playbook which are encrypted

Encrypting Content With Ansible Vault

- Ansible Vault is a feature that allows users to encrypt values and data structures within Ansible

- A utility called ansible-vault secures confidential data by encrypting it on disk allowing us to make use of in Ansible Ad-Hoc commands and Ansible Playbooks.

- Ansible Vault can encrypt variables, or even entire files and YAML playbooks

Let get started

Get your server.

Clone this repo:

https://github.com/joshking1/Devops_Automation.git

Cd Devops_Automation

ls

chmod +x jenkins.sh

Or

chmod 755 jenkins.sh

Or

chmod 755* jenkins.sh

The jenkins.sh file should turn green

Run

./jenkins.sh

Wait for the automation of the Jenkins environment.

Run

ansible - - version

Confirm the ansible installation and version

Run

cd /etc/ansible

Practice the file encryption, rekeying and decryption with ansible vault using the below commands

ansible-vault create vault.yml

Input this information

```yaml
---
- hosts: testservers
  remote_user: root


  tasks:
    - name: Installing Apache
      yum:
        name: httpd
        state: installed

    - name: Enabling httpd service and start the service
      service:
        name: httpd
        enabled: yes
        state: started

    - name: Install MYSQL DB Community edition
      yum:
        name:
          - maraidb-server
          - maraidb
        state: latest

    - name: Start the MYSQL service
      service:
        name: mysqld
        enabled: yes
        state: started


    - name: Installing PHP
      yum:
        name:
          - php
          - php-mysql
        state: latest

    - name: Copying your php file in the /var/www/html
      copy:
        src: /root/ansibleplaybook/index.php
```

```
        dest: /var/www/html/index.php
```

ansible-vault encrypt vault.yml

ansible-vault view vault.yml

ansible-vault edit vault.yml

ansible-vault decrypt vault.yml

ansible-vault rekey vault.yml

ansible-playbook --ask-vault-pass vault.yml