ANSIBLE VAULT

In Ansible Vault, files are typically stored under the **group_vars/all** directory. The **all** folder allows every host to access shared passwords and keys defined within it.

Let's explore various **Ansible Vault commands** and understand how each one works.

There are 2 ways to create vault password:

A) `cd group_vars/all`

```
ansible-vault create aws_credential.yaml
```

It will ask to set up New Vault password.

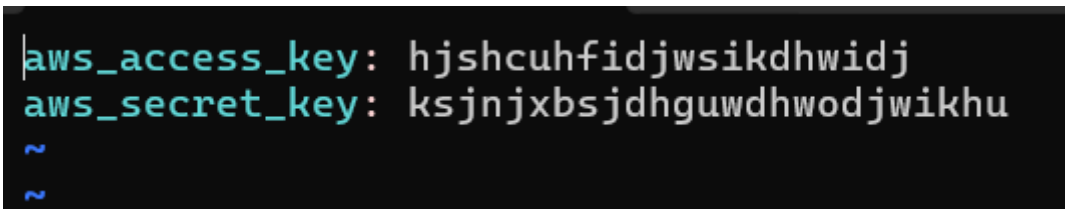
B) Let's generate a strong Ansible Vault password using Base64 encoding and stored it inside a password file.

```
Openssl rand -base64 2048 > vault.pass
```

→ Let create a file inside the Ansible vault using vault password:

```
ansible-vault create aws_credential.yaml --
vault-password-file vault.pass
```

This will open the aws_credential.yaml file where we can store our aws credentials.



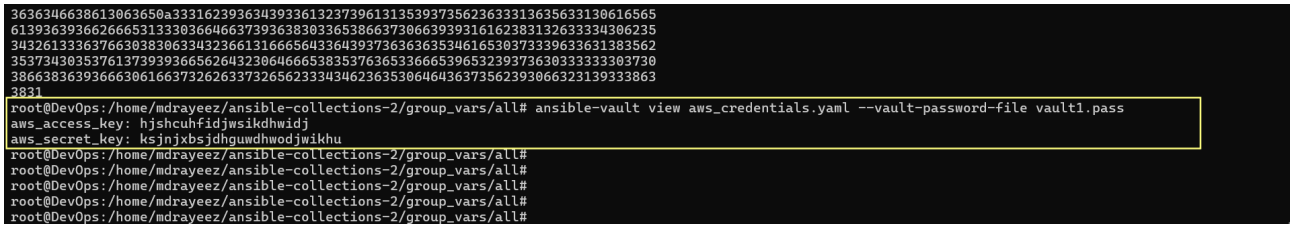
If we now tried to cat the aws_credential.yaml file:

```
$ANSIBLE_VAULT;1.1;AES256
62636439643337393739336231616466393033373561366 4
35623262663833306564366438343837
61306137383038633439303234346138316338626132653 1
0a336165373235393264383764333837
```

The content inside the aws_credential.yaml file is encrypted by ansible vault.

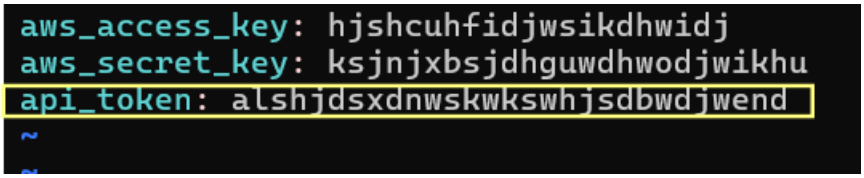
→ Lets see the actual passwords inside the aws_credential.yaml:

```
ansible-vault view aws_credentials.yaml --vault-password-file vault.pass
```

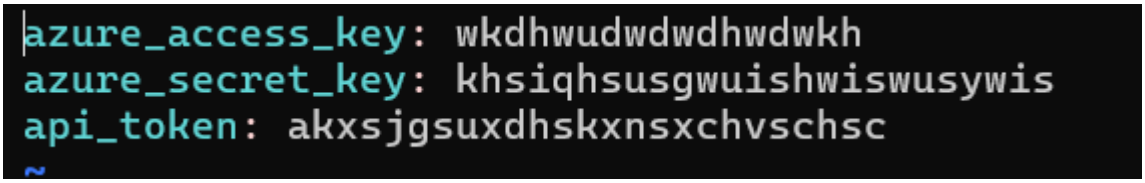


→ If we want to add a new key to the aws_credentials.yaml file:

```
ansible-vault edit aws_credentials.yaml --vault-password-file vault.pass
```



→ Lets say there is already an existing credentials file azure_credentials.yaml having sensitive data:



If we want to secure it using ansible vault:

```
ansible-vault encrypt azure_credentials.yaml --vault-password-file vault.pass
```

Now cat the azure_credentials.yaml and verify:

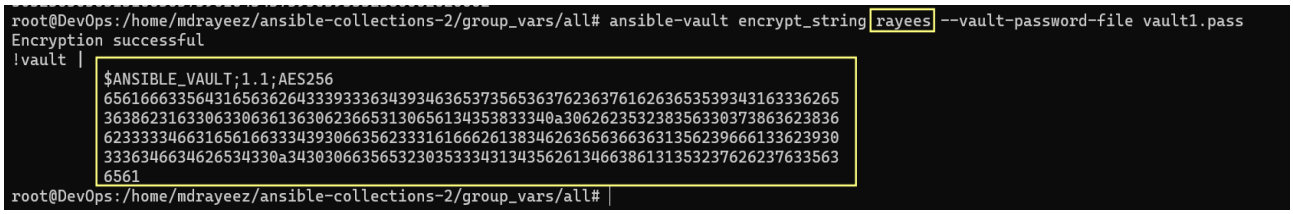
```
$ANSIBLE_VAULT;1.1;AES256
```

```
3330653030316164353761323235306432393531633930383861643064336539326334316130346466313062623066666431616339346435343630343661313209a376365613434396338353763303661
```

Its encrypted!

→ We can even encrypt a variable separately instead of complete file:

```
ansible-vault encrypt_string rayees --vault-password-file vault1.pass
```



→ Lets decrypt the azure_credentials.yaml and cat it:

```
ansible-vault decrypt azure_credentials.yaml --vault-password-file vault.pass
```