ANSIBLE FACTS

- Ansible facts are variables that are automatically discovered by Ansible from a managed host.
- Variables related to remote systems are called facts.
- Facts related to remote systems, including OS's, IP add, kernel version, network interfaces, filesystems etc.
- To disable this behavior using the INJECT_FACTS_VARS setting.

```
$ansible agent1 -m setup [ To list facts from the agent1 ]
$ansible agent1 -m setup | grep hostname
$ansible agent1 -m setup -a "filter=*ipv4"
$ansible agent1 -m setup -a "filter=hostname"
$ansible agent1 -m setup -a "filter=ansible_fqdn"
$ansible agent1 -m setup -a "filter=ansible_virtualization_type"
$vi facts.yml
- hosts: webservers
 become: true
 become user: root
 tasks:
  - name: Print Various Ansible Facts
   debug:
     msg: >
         The default address of {{ ansible_fqdn }} is {{
ansible_default_ipv4.address }}
$ansible-playbook --syntax-check facts.yml
$ansible-playbook facts.yml -K --step
```

MANAGING SECRETS

- Ansible vault provides a way to encrypt and manage sensitive data such as passwords.
- Vaults can encrypt and decrypt arbitrary variables and files, which means you can use it to protect variable files that contain secrets or even encrypt entire sensitive configuration files.

NOTE:

• Ansible vault does not implements its own cryptographic functions but rather uses an external python toolkit. Files are protected with symmetric encryption using AES256 with a password as the secret key.

COMMAND: ansible-vault

- **Create** : To create ansible vault file in the encrypted format

- **View** : To view data of encrypted file

- **Edit** : To edit encrypted file

EncryptDecryptTo encrypt an unencrypted fileTo decrypt an encrypted file

Creating new Playbook with vault:

\$ansible-vault create myplay.yml password:

confirm password:

- hosts: webservers

become: true

become_user: root

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\$cat myplay.yml

\$ansible-vault view myplay.yml

Encrypt existing playbook:

\$ansible-vault encrypt sample.yml

```
$cat sample.yml
$ansible-vault view sample.yml
```

encrypt existing file name to new file name:

```
$ansible-vault encrypt test.yml --output=newtest.yml
password:
$cat test.yml
$ansible-vault view newtest.yml
```

Take password reference:

```
$cat>password
raju123
$ansible-vault create --vault-password-file=password newplay.yml
---
- hosts: webservers
become: true
become_user: root
...
$ansible-vault view newplay.yml
```

To change existing encrypted password:

```
$ansible-vault rekey sample.yml
$ansible-vault view sample.yml
```

Decrypt the password:

```
$ansible-vault decrypt newplay.yml
$cat newplay.yml
```

TASK1: Create A User Account

\$ansible-vault create useraccount.yml - hosts: webservers become: true become user: root tasks: - name: User account Creation user: name: testuser password: raju123 comment: Ansible Test User state: present \$ansible-playbook useraccount.yml -k [Not working] \$ansible-playbook --vault-id @prompt useraccount.yml -K With Encrypted password: - hosts: webservers become: true become_user: root tasks: - name: User account Creation user: name: testuser1 password: \$6\$8UBDLg2Al0b73yzj\$IezSQWNLEmky.EC1/MUvA.uvYZgJ4 v18f0VSJs3Xm.0ElHYJSPWcwYodUfv/NXYkGHV17kv4e6.CiM ipa/gFi. comment: Ansible Test User state: present \$ansible-playbook --vault-id @prompt useraccount.yml -K

TASK2: Variables with encrypted playbook (full encrypted playbook)

Create a variable encrypted file: \$vi secret.yml username: max upass: \$6\$zJWQFRWezy2ZRixq\$nwHPdI59UKudBpMx7airLLLQ74cNluZyn xjgS5yEDP4Ffy bZr5MouF2DjYisNnIPDW7yughoUhczC9N0ke6c// \$ansible-vault encrypt secret.yml Now create a playbook for user: \$vi user.yml - hosts: webservers become: true become_user: root vars_files: - secret.yml tasks: - name: User Creation user: name: "{{ username }}" password: "{{ upass }}" comment: Ansible Test User state: present

\$ansible-playbook --syntax-check --vault-id @prompt user.yml



Encrypt existing playbook:

\$ansible-vault encrypt user.yml [Make sure secret & user yml files password should be same]

\$ansible-playbook --vault-id @prompt user.yml -K [Execute playbook]

MOBILE NUMBER: +91 9848363431 E-MAIL: Rnraju4u@gmail.com YOUTUBE: SYSGEEKS