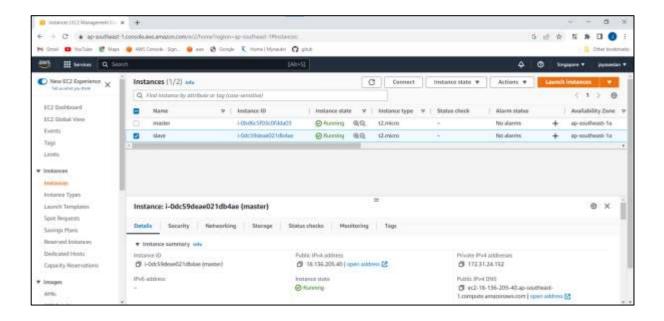
ANSIBLE VAULT

Ansible Vault is a feature that allows you to keep all your secrets safe. It can encrypt entire files, entire YAML playbooks or even a few variables.

- > Create
- > Encrypt
- ➤ Decrypt
- > View
- > Edit
- > Rekey

Step1:launch two ec2 instance at a time

Key(ppk)---->security(all tcp)---->launch instance



Step2:Key Add To Pagent



Step3:Login Master Server

Putty --->host(public ip) ---->auth(click allow agent forwarding) --->open

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Step4:Install Python And Ansible Use Yum

#sudo yum install python -y --->it shown already install so version check

#python --version

#sudo yum install ansible -y --->can't install ansible it will shown alternate command to use install ansible

sudo amazon-linux-extras install ansible2

```
# and provided the second seco
```

#ansible -version

Now we get host inventory file and configuration file

```
#cd /etc/ansible/
#ll ---->it will shown ansible.cfg and hosts that move to
/home/ec2-user/
# sudo cp ansible.cfg hosts /home/ec2-user/
#cd .. --->ec2-user
#ll --->shown ansible.cfg and hosts
```

```
67 awsclil available [=stable]
[ec2-user@ip-172-31-25-113 -]$ cd /etc/ansible/
[ec2-user@ip-172-31-25-113 ansible]$ 11
total 24
-rw-r-r-1 root root 19985 Jul 1 2021 ansible.cfg
-rw-r-r-1 root root 19985 Jul 1 2021 ansible.cfg
-rw-r-r-1 root root 6 Jul 1 2021 ansible.cfg
[ec2-user@ip-172-31-25-113 ansible]$ cp ansible.cfg
cp: missing destination file operand after 'ansible.cfg'
Try 'cp -help' for more information.
[ec2-user@ip-172-31-25-113 ansible]$ cp ansible.cfg hosts /home/ec2-user/
[ec2-user@ip-172-31-25-113 ansible]$ 11
total 24
-rw-r-r--1 root root 19985 Jul 1 2021 ansible.cfg
-rw-r-r--1 root root 1016 Jul 1 2021 hosts
drwxr-xr-x 2 root root 6 Jul 1 2021 hosts
drwxr-xr-x 2 root root 6 Jul 1 2021 roles
[ec2-user@ip-172-31-25-113 ansible]$ cd .
[ec2-user@ip-172-31-25-113 etc]$ cd .
[ec2-user@ip-172-31-25-113 -]$ 11
total 24
-rw-r-r--1 ec2-user ec2-user 19985 Feb 21 18:00 ansible.cfg
-rw-r-r--1 ec2-user ec2-user 1016 Feb 21 18:00 hosts
[ec2-user@ip-172-31-25-113 -]$
```

Step5: Setup Slave With Master

```
#vi ansible.cfg ---- #host_key_checking = False

Remove # --->save:wq!
```

#vi hosts --->all line remove using esc+:+%d
---->add slave server private ip

Ping slave server

#ansible all -i hosts -m ping

Step6:workouts vault commands

1.create

While writing the YAML, you can encrypt and start writing.

#ansible-vault create apache.yml

Set passwoed:123

Confirm passwoed:123

Vi --->copy code and save :wq!

```
Dotts all
remote user ec2-user
become yes
taaks
- name: Installing Multiple Fackages
yuse
name
tater present
log;
- php
- unrip
```

#cat apache.yml --->it will show code for encrpt

```
ec2-user@ip-172-31-25-113 -]$ ansible-vault create apache.yml
New Vault password:
Confirm New Vault password:

[ec2-user@ip-172-31-25-113 ~]$ cat apache.yml

$ANSIBLE VAULT;1.1;AE$256

63393061373864336430393039373739343835383934363631666139663362663663303636303433
3735333834643863633836373130613162323630323462630n336133333563326564656563653763
35383730633165656362353331666137636230383536383766353562313338623962376536633134
3266313535386638330a613231336335336163323965396532353862633433626330653466396333
32323435373530376464356364613333373764663365373638306538396638323036396135623037
61633936396439353939613562646563326363623165383631333762306634623466646136636165
33346163336664666636646331633938333462633961666366306363323030613733633766613539
613533643532383964646466353936316532313532336238333366564656634393862643137623464
34356632323138326363326133646236346236653630666439366131623234383238623039646162
30666635353961366337376639313430336134636536313839333137336239373230663030393165
34353736656530393930376334363066356339336539316535616463626562653934303131353762
35626638626239393637616464303664316539396537666432653130356163383361363133666235
61333163656234363464383438643233633231616665613437303236326539643331623438653632
37313836373762336435666330633331326432353630663837666663666164323664373032623665
616165353965333938323361396336353164
[ec2-user@ip-172-31-25-113 ~]$
```

2.Encrypt

Encrypt the unencryped .yml existing files

#vi second.yml ---->copy yml code

```
Description all
remote librical scaling Multiple Fackages
tasks:

| Times Installing Multiple Fackages
| Times Installing Multiple Packages
| Times Installing
```

#ansible-vault encrypt second.yml

Set password --->1234

#cat second.yml

```
[ec2-user@ip-172-31-25-113 ~]$ vi second.yml
[ec2-user@ip-172-31-25-113 ~]$ ansible-vault encrypt second.yml
New Vault password:
Confirm New Vault password:
Encryption successful
[ec2-user@ip-172-31-25-113 ~]$ cat second.yml
ANSIBLE_VAULT:1.1;AES256
4646431376165373132336461373538336432356435623761323566396630613334386463343239
3237653333343136366533613362613761643462343864370a653533613638366263353134393539
34343164653932323534373035356235376266386439643135363230326130376364626634333465
3636353135636362310a366131386336626233356637323633323530653433623039323364313866
38323932373432343363323335613132363937643863613066316136393337376662356435623036
64383336353962636439343563666334636539333532396661663632653937653434356262363462
6306635663465653265643837376264386531646637613638616139346133343330326239383764
5343365353961356631393038326332623031623961336564623532613862336535643431663465
162663535373236373365326530396435316530616334303632663636433313234613361666162
3232335356334376135616539356662653364346163356230303136386263663466323365353162
62346536636262333334613035376536323666383834663834646362333362653139626361656234
38333238613633653630613361663765313065636232366434663731613961623964666336613039
35313664633734393030336635613165396238623133383161393336343761643735333163353337
65333366303162313031626539393736666437383631613234306266643166663338393561393632
536332303561633535656433373165363035
[ec2-user@ip-172-31-25-113 ~]$
```

3.Decrypt

To decrypt the encrypted file

#ansible-vault decrypt second.yml
Ask password give crct --->1234
#cat second.yml

encrypt file show as decrypt

4.View

To view the encrypted yaml file without decrypt

#ansible-vault view second.yml

Password give --->1234

```
35663335653864613833626530636437393931343239386132636534643038303333616365323
653036333536303630623864636133626333
[ec2-user@ip-172-31-25-113 ~]$ ansible-vault view second.yml

Vault password:
- hosts: all
    remote_user: ec2-user
    become: yes
    tasks:
- name: Installing Multiple Packages
    yum:
        name: "{{ item }}"
        state: present
    loop:
        - mysql
        - php
        - unzip
[ec2-user@ip-172-31-25-113 ~]$
```

#cat second.yml --->shown encrypt

```
- unzip
[ec2-user@ip-172-31-25-113 ~]$ cat second.yml
$ANSIBLE VAULT:1.1;AES256
34356331613963323966353363613137326663616235613566363664306236646134356534393934
3063373761353861373731316430393862316338363635630a306139363731346233633731396339
39633662383264346563306139383937363639363634333762353939383436333135363230303631
3563663636343463360±376531353338386137636630613931386165383139303563323031616364
31373363316437323132643962343732633537386531633065346335626362383866356462613462
31336666383862626631373734626664343233396661626565356663306161336334343264313464
30656461616432343266656135643236346332343136336562303732623037303430356131663563
30653264303265623261333335373261346266616232383465363932313534373030643663633030
36646431323539373734633436343833303065353439326332346131313134663230656333323564
30316533343466633038383463303532346166656137363334623435343533313937343564623636
66663333663130303334623636633261653638323433613730643332393430363533333566386361
3331656566461616430333332373831343932303362326562366465366361646662353531393938
37653865303766633166353565303736663738353861323263346262303131306363626562393238
356633356538646138336265306364373939313432393861326365346430383033336163655223835
653036333536303630623864636133626333
```

5.Edit

To edit the encrypted yaml file

#ansible-vault edit second.yml

Password give --->1234

Edit code ex:name package1 add --->save :wq!

```
Sections (Property of the Community of t
```

5.Rekey

To change the vault password

#ansible-vault rekey second.yml

Vault password:1234

New Vault password:1234

Confirm New Vault password: 1234

Rekey successful

```
- unzip
[ec2-user@ip-172-31-25-113 ~]$ ansible-vault edit second.yml
Vault password:
[ec2-user@ip-172-31-25-113 ~]$ ansible-vault rekey second.yml
Vault password:
New Vault password:
Confirm New Vault password:
Rekey successful
[ec2-user@ip-172-31-25-113 ~]$
```

Run Vault yaml file

#ansible-playbook -i hosts apache.yml --ask-vault-pass Vault Password ask --->give correct one