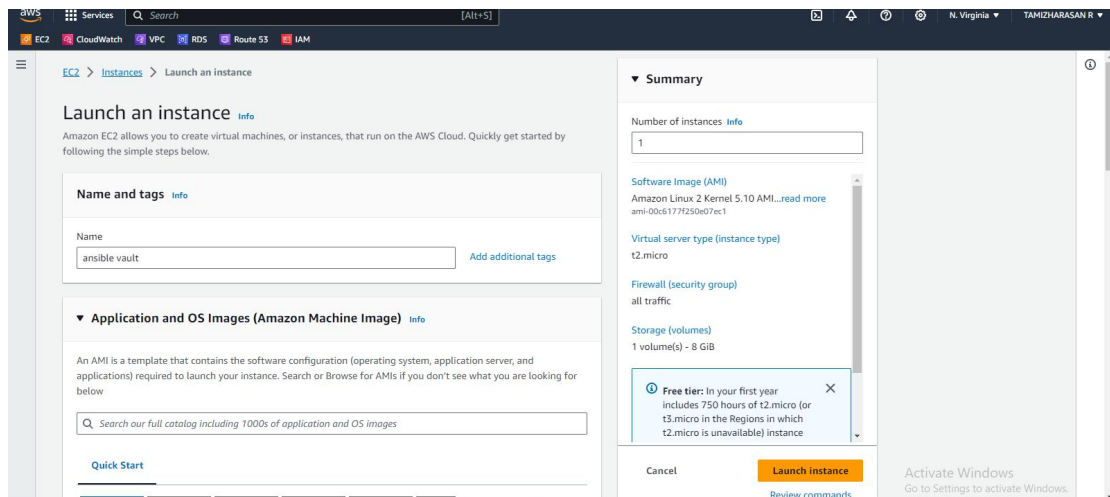


Using Ansible Vault for Viewing, Encrypting, Decrypting, Editing YAML Files, and Renaming Passwords in a System



Step 1: First, create an instance server for Ansible Vault in amazon Linux



```

root@ip-172-31-82-233:~
login as: ec2-user
Authenticating with public key "linux new"

  _ |      _ | _ )
  _ | ( _ | /
  _ | \ _ | _ |
                        Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
5 package(s) needed for security, out of 9 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-82-233 ~]$ clear
[ec2-user@ip-172-31-82-233 ~]$ sudo -i
[root@ip-172-31-82-233 ~]# yum install ansible -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
No package ansible available.
Error: Nothing to do

ansible is available in Amazon Linux Extra topic "ansible2"

To use, run
# sudo amazon-linux-extras install ansible2

Learn more at
https://aws.amazon.com/amazon-linux-2/faqs/#Amazon_Linux_Extras

[root@ip-172-31-82-233 ~]# ^C
[root@ip-172-31-82-233 ~]# sudo amazon-linux-extras install ansible2
Topic ansible2 has end-of-support date of 2023-09-30

```

Step 3: Now, copy ansible.cfg & hosts file and paste it in */home/ec2-user* path

```
ec2-user@ip-172-31-82-233:~$ cd
[ec2-user@ip-172-31-82-233 ansible]$ cd
[ec2-user@ip-172-31-82-233 ~]$ cd /etc/ansible/
[ec2-user@ip-172-31-82-233 ansible]$ ls
ansible.cfg  hosts  roles
[ec2-user@ip-172-31-82-233 ansible]$ sudo cp ansible.cfg /home/ec2-user/
[ec2-user@ip-172-31-82-233 ansible]$ sudo cp hosts /home/ec2-user/
[ec2-user@ip-172-31-82-233 ansible]$ cd
[ec2-user@ip-172-31-82-233 ~]$ ls
ansible.cfg  hosts
[ec2-user@ip-172-31-82-233 ~]$
```

USING PLAYBOOK FOR VAULT CREATE

```
[ec2-user@ip-172-31-82-233 ~]$ ansible-vault create apache.yml
New Vault password:
Confirm New Vault password:
[ec2-user@ip-172-31-82-233 ~]$
```

Step 4: Now, create vault and vault password by using “ansible-vault create apache.yml”

```
ec2-user@ip-172-31-82-233:~
- hosts: all
  remote_user: ec2-user
  become: yes
  tasks:
    - name: Install Apache
      yum:
        name: httpd
        state: present

    - name: Start Apache
      service:
        name: httpd
        state: started

    - name: Copy index.html
      copy:
        src: ./index.html
        dest: /var/www/html/index.html
        mode: '0777'
```

Step 5: After enter vault password you will enter into apache.yml file and paste the yml script and save it

Step 6: Now, Cat apache.yml to view the encrypted file only

```
ec2-user@ip-172-31-82-233:~  
[ec2-user@ip-172-31-82-233 ~]$ ansible-vault create apache.yml  
New Vault password:  
Confirm New Vault password:  
[ec2-user@ip-172-31-82-233 ~]$ cat apache.yml  
$ANSIBLE_VAULT;1.1;AES256  
39383565393564323732613332653964313433616166396161343966313939663162303132613532  
6166313230326430306430643232626461363531653830360a663365333739373164376164383865  
37366335343964643333316561613763333938623331376564646138343838623935396231643038  
3562306661343765320a616237386534333063323866663961333161623237353163386534376263  
30323532336366653231613065333236626233613731336237346163373530366531353761623764  
36626432346665633932333966663362363132383938333535623034333031613662623266623832  
30303032376531396335396331313339396432653532353130346338383438363136653262333964  
35663337393935393266353963316135363564386334623136323838363133346365326330396335  
3033396535366563646162666261646666393936623736663336633231373566363366166393061  
31383137653434326232333433306563626365343239363137616239333362656539376662653230  
37646538306662333432383334353138353366316437313838383738653133376665313765626631  
61626263623966323134646335666538613732616537303965613839643333653036613333343638  
37656531643332396564356335623365326435333831343630653136633137353138306462626466  
37633261613737393762356337633661346364663331346335613766363933623435373033303738  
39376138646331663637336633336337623833393934663136653838643264326262636636363761  
39616234323033666637663835653066353736353761623465316361396434613664623335316530  
39383034646136343732613961353739353632376335376337646332306438373363356261366363  
30653863653139663761643333363262333663383931386237656364613965393362383165646137  
35306336376464303031363538303664346630613436656461663534343561663738613631643630  
65383933656533623432316261633364623630363865326264376433346637323437333461316333  
64333234613864323762336133323861366634383738633465323736663136353061383662393436  
3863323234663139373139616566353930313837323932316162  
[ec2-user@ip-172-31-82-233 ~]$
```

Acti
Go to

VIEW = TO VIEW ENCRYPT YML FILE WITHOUT DECRYPT

Step 7: Now, enter the view command “ansible-vault view apache.yml” to view the decrypted original file

```

ec2-user@ip-172-31-82-233:~
[ec2-user@ip-172-31-82-233 ~]$ ansible-vault view apache.yml
Vault password:
- hosts: all
  remote_user: ec2-user
  become: yes
  tasks:
    - name: Install Apache
      yum:
        name: httpd
        state: present

    - name: Start Apache
      service:
        name: httpd
        state: started

    - name: Copy index.html
      copy:
        src: ./index.html
        dest: /var/www/html/index.html
        mode: '0777'
[ec2-user@ip-172-31-82-233 ~]$ s

```

EDIT = TO EDIT YML ECRYPTED FILE

Step 8: Now, use edit command “ansible-vault edit apache.yml

```

ec2-user@ip-172-31-82-233:~
[ec2-user@ip-172-31-82-233 ~]$ ansible-vault edit apache.yml
Vault password:

```

enter vault password to edit the yml file

```

ec2-user@ip-172-31-82-233:~
hosts: all
  remote_user: ec2-user
  become: yes
  tasks:
    - name: Install Apache
      yum:
        name: httpd
        state: present

    - name: Start Apache
      service:
        name: httpd
        state: started

    - name: Copy index.html
      copy:
        src: ./index.html
        dest: /var/www/html/index.html
        mode: '0777'
~

```

Encrypt the unencrypted file


```
[ec2-user@ip-172-31-82-233 ~]$ vi tamizh.yml
- hosts: all
  remote_user: ec2-user
  become: yes
  tasks:
    - name: Installing Multiple Packages
      yum:
        name: "{{ item }}"
        state: present
      loop:
        - mysql
        - php
        - unzip
~
```

Now, Cat tamizh.yml to view the yml unencrypted script

```
[ec2-user@ip-172-31-82-233 ~]$ cat tamizh.yml
- 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-172-31-82-233 ~]$ s
```

Now, use encrypt command **"ansible-vault encrypt tamizh.yml"** and enter the vault password to encryption successful

```
[ec2-user@ip-172-31-82-233 ~]$ ansible-vault encrypt tamizh.yml
New Vault password:
Confirm New Vault password:
Encryption successful
[ec2-user@ip-172-31-82-233 ~]$
```

Now, Cat tamizh.yml to view the encrypted file

```
[ec2-user@ip-172-31-82-233 ~]$ cat tamizh.yml
$ANSIBLE_VAULT;1.1;AES256
346137626364393664376265633534613136333765386638326232393766646265393762646632
6361663836643662373338353634373532633437633534630a343039353335336230636631343263
663136383432666666666434613331616439336136383666666633961346462393665663139373364
3766356666616637300a39366636313731656431333434663038323031336266386538363613032
3731316364363030666396661633563653662653063323261393265373563626332623031306235
32373233346338363061363239323563326364643133356134633766343432313966353061316635
31353533303239613537353130356434623738376335636531613065656565626630353962346233
633463346235356434326539343137396562623465326436353164373465656666334393330316238
36653332643430653632356433316238303637663938383130303465663462303030626632366330
63623033383664653463323065356239613734383863623731366430306662663230333231393964
62626663316163323236633735303964393164336366363334393131336630613838656361613662
3662373539383663733653437633561366134366631353639373238386337343030646633343566
30303664326133666538643035343530663662353439313230316264386239313437643230626532
34323734653836333434393837386662623737616237316163626364343931353366393437363166
616339303963656132333664353666666238
[ec2-user@ip-172-31-82-233 ~]$
```

Activate Windows
Go to Settings to activate Windows.

Decrypt Ansible Playbook

use decrypt command “ansible-vault decrypt tamizh.yml” to decrypt the file and cat second.yml to view the decrypted file

```
[ec2-user@ip-172-31-82-233 ~]$ ansible-vault decrypt tamizh.yml
Vault password:
Decryption successful
```

```
ec2-user@ip-172-31-82-233:~
[ec2-user@ip-172-31-82-233 ~]$ cat tamizh.yml
- hosts: all
  remote_user: ec2-user
  become: yes
  tasks:
    - name: Installing Multiple Packages
      yum:
        name: "{{ item }}"
        state: present
      loop:
        - mysql
        - php
        - unzip
```

To edit the encrypted yaml file

ansible-vault edit tamizh.yml

```
[ec2-user@ip-172-31-82-233 ~]$ ansible-vault edit tamizh.yml
Vault password:
```

Now you can edit

```
ec2-user@ip-172-31-82-233:~  
- hosts: all  
  remote_user: ec2-user  
  become: yes  
  tasks:  
    - name: Installing Multiple Packages  
      yum:  
        name: "{{ item }}"  
        state: present  
      loop:  
        - mysql  
        - php  
        - unzip  
~  
~
```

REKEY = TO CHANGE THE VAULT PASSWORD

Use rekey command “**ansible-vault rekey apache.yml**” to change the password and set new password to vault

```
ec2-user@ip-172-31-82-233:~  
[ec2-user@ip-172-31-82-233 ~]$ ansible-vault rekey apache.yml  
Vault password:  
New Vault password:  
Confirm New Vault password:  
Rekey successful  
[ec2-user@ip-172-31-82-233 ~]$
```