# **Tenable-Deployment\_Production**

# 1. Tasks

#### a. tenable-linux

```
- block:
    - name: Executing script copy_linux
    script: ../scripts/linux-copy-install.sh
    become: yes
    register: script_output
    environment:
        nas_path: '{{ nas_path_linux }}'
        mount_username: '{{ mount_username }}'
        mount_password: '{{ mount_password }}'
always:
    - name: Script output
    debug:
    msg: "{{ script_output }}"
```

- **block:** This is a keyword that indicates the beginning of a block of tasks that will be executed together. In this case, there is only one task in the block.
- **name: Executing script copy\_linux:** This is the name of the task. It helps to identify the task being executed.
- **script:** ../scripts/linux-copy-install.sh: This is the script that will be executed on the remote Linux machine. The script path is ../scripts/linux-copy-install.sh.
- **become: yes:** This is a keyword that tells Ansible to become the superuser or an equivalent privileged account to run this task.
- **register: script\_output:** This is a keyword that stores the output of the task execution in the variable script\_output. This variable can be used later in the playbook.
- **environment:** This is a keyword that sets the environment variables for the task.
- nas\_path: '{{ nas\_path\_linux }}': This sets the value of the environment variable nas\_path to the value of the Ansible variable nas\_path\_linux.
- **mount\_username:** '{{ **mount\_username** }}': This sets the value of the environment variable mount username to the value of the Ansible variable mount username.
- **mount\_password:** '{{ **mount\_password** }}': This sets the value of the environment variable mount\_password to the value of the Ansible variable mount\_password.
- **always:** This is a keyword that contains tasks that will always be executed, regardless of whether the previous task succeeds or fails.
- name: Script output: This is the name of the task.
- **debug:** This is a keyword that prints a message to the console.
- msg: "{{ script\_output }}": This is the message that will be printed to the console. It contains the value of the script\_output variable that was registered earlier.

#### b. tenable-windows

```
- block:
    - name: Executing script windows
    script: ../scripts/windows-copy-install.ps1
    become: yes
    register: script_output
    environment:
        nas_path: '{{ nas_path_win }}'
        mount_username: '{{ mount_username }}'
        mount_password: '{{ mount_password }}'
always:
    - name: Script output
    debug:
    msg: "{{ script_output }}"
```

- **block:** This is a block of tasks that will be executed together. In this case, it contains only one task.
- **name:** Executing script windows: This is the name of the task. It helps to identify the task being executed.
- **script:** ../scripts/windows-copy-install.ps1: This is the script that will be executed on the remote Windows machine. The script path is ../scripts/windows-copy-install.ps1.
- **become: yes:** This is a keyword that tells Ansible to become the superuser or an equivalent privileged account to run this task.
- **register: script\_output:** This is a keyword that stores the output of the task execution in the variable script\_output. This variable can be used later in the playbook.
- **environment:** This is a keyword that sets the environment variables for the task.
- nas\_path: '{{ nas\_path\_win }}': This sets the value of the environment variable nas\_path to the value of the Ansible variable nas\_path\_win.
- **mount\_username:** '{{ **mount\_username** }}': This sets the value of the environment variable mount username to the value of the Ansible variable mount username.
- **mount\_password:** '{{ **mount\_password** }}': This sets the value of the environment variable mount\_password to the value of the Ansible variable mount\_password.
- **always:** This is a keyword that contains tasks that will always be executed, regardless of whether the previous task succeeds or fails.
- name: Script output: This is the name of the task.
- **debug:** This is a keyword that prints a message to the console.
- msg: "{{ script\_output }}": This is the message that will be printed to the console. It contains the value of the script\_output variable that was registered earlier.

# 2. <u>Vars</u>

# a. agent-installation-config

```
agent_installer:
   nas_path: '\\iaas.hosted.lac.com\iaas'
   local_mount_path: "c:\\temp\\rsa\\"
   team_dl: ecloud@isd.lacounty.gov
   nas_path: '\\iaas.hosted.lac.com\iaas'
   local_mount_path: 'c:\temp\nxlog\'
   team_dl: ecloud@isd.lacounty.gov
  secureworks read cloak:
   nas_path: //iaas.hosted.lac.com/iaas/SelfServiceImages/RedCloak
   local_mount_path: /myshare
   team_dl: ecloud@isd.lacounty.gov
   nas_path: ""
   local_mount_path: /tmp/mcafee
   team dl: ecloud@isd.lacounty.gov
  commvault backup:
   nas_path: "//isdowfsv01.hosted.lac.com/public/Software/Commvault/tar_05242019"
   local mount path: /myshare
   team dl: ecloud@isd.lacounty.gov
   nas_path: "//isdowfsv01.hosted.lac.com/public/Software/Tetration"
   local_mount_path: /myshare
   team dl: ecloud@isd.lacounty.gov
```

- **agent\_installer:** This is the name of the dictionary.
- windows: This is a key in the dictionary that defines a sub-dictionary for Windows-based installers.
- **rsa64:** This is a key in the sub-dictionary that defines the RSA64 installer.
- nas\_path: '\iaas.hosted.lac.com\iaas': This is the network addressable storage (NAS) path for the RSA64 installer.
- **local\_mount\_path: "c:\temp\rsa\":** This is the local path on the Windows machine where the RSA64 installer will be mounted.
- **team\_dl:** <u>ecloud@isd.lacounty.gov</u>: This is the email address of the team responsible for downloading the installer.
- **nxlog:** This is a key in the sub-dictionary that defines the NXLog installer.
- nas\_path: '\iaas.hosted.lac.com\iaas': This is the NAS path for the NXLog installer.
- **local\_mount\_path: 'c:\temp\nxlog':** This is the local path on the Windows machine where the NXLog installer will be mounted.
- **team\_dl:** <u>ecloud@isd.lacounty.gov</u>: This is the email address of the team responsible for downloading the installer.

- **linux:** This is a key in the dictionary that defines a sub-dictionary for Linux-based installers.
- **secureworks\_read\_cloak:** This is a key in the sub-dictionary that defines the SecureWorks Read Cloak installer.
- nas\_path: //iaas.hosted.lac.com/iaas/SelfServiceImages/RedCloak: This is the NAS path for the SecureWorks Read Cloak installer.
- **local\_mount\_path:** /myshare: This is the local path on the Linux machine where the SecureWorks Read Cloak installer will be mounted.
- **team\_dl:** <u>ecloud@isd.lacounty.gov</u>: This is the email address of the team responsible for downloading the installer.
- macfee: This is a key in the sub-dictionary that defines the McAfee installer.
- **nas\_path:** "": This is an empty NAS path because the McAfee installer is not stored on a NAS.
- **local\_mount\_path:** /tmp/mcafee: This is the local path on the Linux machine where the McAfee installer will be mounted.
- **team\_dl:** <u>ecloud@isd.lacounty.gov</u>: This is the email address of the team responsible for downloading the installer.
- **commvault\_backup:** This is a key in the sub-dictionary that defines the Commvault backup installer.
- nas\_path:
  - "//isdowfsv01.hosted.lac.com/public/Software/Commvault/tar\_05242019": This is the NAS path for the Commvault backup installer.
- **local\_mount\_path:** /myshare: This is the local path on the Linux machine where the Commvault backup installer will be mounted.
- **team\_dl:** <u>ecloud@isd.lacounty.gov</u>: This is the email address of the team responsible for downloading the installer.
- **tetration:** This is a key in the sub-dictionary that defines the Tetration installer.
- nas\_path: "//isdowfsv01.hosted.lac.com/public/Software/Tetration": This is the NAS path for the Tetration installer.
- **local\_mount\_path:** /myshare: This is the local path on the Linux machine where the Tetration installer will be mounted.
- **team\_dl:** <u>ecloud@isd.lacounty.gov</u>: This is the email address of the team responsible for downloading the installer.

# b. mount-cred

#### \$ANSIBLE\_VAULT;1.1;AES256

 $64663338613833613234343665643335343961373730646439313066353435363362616264303931\\ 3462313063383238666234383633383934353361303230360a366564383338386261396666646166\\ 36646162366230303934343738653431343735393765353663313238396534393334373233303863\\ 6364353030383539660a326230353663316134333762623764616430343636613766323164333133\\ 34626531353264303137356166366631333933393130396561373333326632643564393531336130\\ 356263636139386230316138306238316430336466643833616138336333633833636266653863\\ 30323466326337613339303637316637363734613832336465346138333035636637383930353038\\ 33616532306531643137613131613331306434393664643830653831613135643239303862396234\\ 30376130336131323835343031613432656162316665376262663534396132313237646137303736\\ 3830343539633239643430653362303662646461386466643263$ 

Each line beginning with '\$ANSIBLE\_VAULT' indicates the beginning of an encrypted section.

The long string of characters following the header is the encrypted content.

Without the decryption key, it is not possible to decrypt and understand the contents of this file.

#### c. vcenter-cred-prod

# \$ANSIBLE\_VAULT;1.1;AES256 6365326163373433363636633531383131623466346232313166323231336166653033383438356 6 3336633366353961353634323338326162323239353235320a65353831636639353933353934663 0 6334633866616531666539326239666632383830353430356132323530653932383035633164623 5

```
3333616138306532650a65646265363263333636363361633961363430323238393338346532373
4
3438313730326430626562316661356138343364633962383930376561663536386666643136313
6
3131613262653433323736343764336432666236656536323637633432613230663163663736626
5
3139353566643164646462626331353362383138653537373439366266336538653164663637373
1
3138613931323539313666346536663139663030666161623437323036346530363366646339393
0
36613934326139376433613333639313739323830363164343430353638323337333833316633383
0
6534306338333862323037363630383536383139613534353831306535323737366630376232313
1
6661653034336637316264336261613032663936353862396264333966613862633036326335333
8
6230313966613933653764336665393537656138303931646238346163323565663331633632386
5
3861313037383761666234363539646661366564383134353638316365363036353738666330336
3
66666323239393433306662613364343733616165396363653233333135643236373735656557663
4
6638393437653039343165383865393965346566383464333964653165396663363533326363643
9
3562366361396233346338383731626535333882303535656563393336616236386138646332643
7
3866
```

The code you provided is an encrypted Ansible Vault file, not executable code. It starts with the string \$ANSIBLE\_VAULT;1.1;AES256, which indicates the version of the Ansible Vault file and the encryption algorithm used.

The rest of the code is a long string of characters, which is the encrypted content of the Ansible Vault file. Without the encryption key, it is not possible to decode this string and determine its contents.

In summary, this code is not something that can be explained line by line, as it is an encrypted file.

#### d. vcenter-cred-test

```
$ANSIBLE_VAULT;1.1;AES256
3638626231326234343031363833643936623830393834316538313937663034613533353531633
9
3366333235393366336264386334646636653264363231310a35386635613837623765363031656
2
```

```
316162393162363161383330386438643630626536399161616161353931353762326336653331346 6
3533626565373362650a31386531663962353664343930626238376438323538396335326465373 6
3933653934306531306461343865376639353562643131353264626565616532643137306664303 1
6134323139346430663665656633306565386135613433326266626165396361666231613331616 4
6433613036356564626263653133663666646661643861343262353063396164373535373062656 5
5565313965323362333532663883366623362636364393632626235626438393730616164666532623 6
61383466323536333163633165663933376231633861623937316164313661626563663334336 5
3733643364373939396434333035646162393237326361383035333636373333326534383035336 1
3962336531353562346331626463663433636333643565373134643730663130623866623230623 9
3862613438363661306134323038663131316636383233303161656539363036376131643235346 3
663462306633393039306430316163616535333633064646436613966633833365316332663236643 0
38363234333835646633326633623331393164636162626565537376562613734353031633237343 7
6465646635626336653836366434343036613830663435316166333336162622623633388613732653 0
3935303631386361633334353237373764343936343232313035353536333887653332613831343 1
3665
```

However, based on the file format and the presence of the string \$ANSIBLE\_VAULT, it can be inferred that this file contains sensitive data that has been encrypted for secure storage and transmission. Ansible Vault is a built-in tool in Ansible that allows users to encrypt sensitive data within their playbooks and configuration files.

If you have the encryption key for this file, you can use the **ansible-vault** command to decrypt and view the contents of the file.

#### e. win-connection-vars

```
ansible_connection: vmware_tools
ansible_shell_type: powershell
ansible_vmware_validate_certs: false
```

• ansible\_connection: vmware\_tools: This sets the connection type that Ansible will use to communicate with the target machine. In this case, it's vmware\_tools, which means Ansible will use the VMware Tools API to communicate with a VMware virtual machine.

- ansible\_shell\_type: powershell: This sets the shell type that Ansible will use when running shell commands on the target machine. In this case, it's powershell, which means Ansible will use PowerShell as the shell.
- ansible\_vmware\_validate\_certs: false: This sets whether or not Ansible should validate SSL certificates when communicating with the VMware server. In this case, it's set to false, which means that Ansible will not validate SSL certificates. This is generally not recommended for security reasons, but may be necessary in certain environments where SSL certificates are not properly configured.

### 3. tenable-installer

```
name: Ansible Playbook to install Tenable
hosts: all
 gather_facts: no
 vars_files:
 - ./vars/mount-cred.yaml
  - ./vars/vcenter-cred-{{ ansible_vmware_env| default('test') }}.yaml
  - os_type: "{{ 'windows' if ansible_vmware_guest_os_family in ['windowsGuest','WIN'] else
'linux' }}"
 - agent_name: tenable
 - nas_path_linux: '\eisstorage.hosted.lac.com'
 - nas_path_win: "\eisstorage.hosted.lac.com"
  - name: This is for Linux
   when: ansible_os_family == 'linux'
   include: tasks/tenable-linux.yaml
  - name: This is for windows
   when: ansible_os_family == 'windows'
   include: tasks/tenable-windows.yaml
```

- This is an Ansible playbook named "Ansible Playbook to install Tenable".
- It targets **all hosts** in the inventory.
- "gather\_facts: no" means that Ansible will not gather facts about the target hosts before running the playbook.
- "vars\_files" specifies the list of files containing variables used in the playbook.
- The first file is "mount-cred.yaml" located in the "./vars" directory.
- The second file is "vcenter-cred-{{ ansible\_vmware\_env| default('test') }}.yaml". The value of "ansible\_vmware\_env" will be used to replace "{{ ansible\_vmware\_env| default('test') }}" in the filename. If "ansible\_vmware\_env" is not defined, it will be replaced by the string "test".
- "vars" specifies a list of variables to be used in the playbook.
- "os\_type" is set to "windows" if the target OS is Windows, otherwise it is set to "linux".
- "agent name" is set to "tenable".

- "nas\_path\_linux" is set to "\\eisstorage.hosted.lac.com".
- "nas\_path\_win" is set to "\\eisstorage.hosted.lac.com".
- "tasks" specifies the list of tasks to be executed in the playbook.
- The first task is named "This is for Linux". It will only be executed if the target OS family is Linux.
- The task is included from the file "tasks/tenable-linux.yaml".
- The second task is named "This is for windows". It will only be executed if the target **OS** family is **Windows**.
- The task is included from the file "tasks/tenable-windows.yaml".