#### Ansible

**Task 1:** Write and Execute a Simple Ansible Playbook **Topic:** Ansible Playbooks - Writing Your First Playbook

**Description:** Create a basic Ansible playbook that pings all hosts in the default inventory.

**Steps:** 

Create a new file named ping.yml in your Ansible working directory.

Write a playbook with a single task to use the ping module.

Run the playbook using the command ansible-playbook ping.yml.

Verify that you receive a pong response from all hosts listed in the /etc/ansible/hosts file.

# Step 1:

- Navigate to your Ansible working directory.
- Create a new file named ping.yml.

cd /path/to/your/ansible/directory touch ping.yml

### Step 2:

- Open the ping.yml file in a text editor.
- Write the following Ansible playbook:

- name: Ping all hosts

hosts: all tasks:

- name: Ping all hosts ansible.builtin.ping:

## Step 3:

- Save the ping.yml file and close the text editor.
- Run the playbook using the following command:

ansible-playbook ping.yml

# Step 4:

After running the playbook, you should see output similar to the following, indicating that each host has responded with pong:

Task 2: Encrypt a String with Ansible Vault

**Topic:** Ansible Vault - Securing Sensitive Data

**Description:** Use Ansible Vault to encrypt a string and demonstrate how it can be

used within a playbook.

**Steps:** 

Open the terminal in your Ansible control machine.

Use the Ansible Vault command to encrypt a string: ansible-vault encrypt\_string 'my secret password' --name 'password'.

Copy the output to a new playbook or an existing playbook variable section.

Use the encrypted string in the playbook as a variable for demonstration.

### Step 1:

Open the terminal on your Ansible control machine.

# **Step 2:**

Use the ansible-vault command to encrypt a string. For example, to encrypt the string my secret password and name it password:

ansible-vault encrypt\_string 'my\_secret\_password' --name 'password'

## Step 3:

Create a new playbook or open an existing one and add the encrypted string in the variables section. For example, create a new playbook named use vault.yml:

```
---- name: Use Ansible Vault encrypted string hosts: localhost vars:
password: !vault |
$ANSIBLE VAULT;1.1;AES256
```

### Step 4:

Run the playbook using the following command:

ansible-playbook use vault.yml --ask-vault-pass