1. Set Up Ansible Collection:

Create a directory structure for your collection.

ansible-galaxy collection init my\_namespace.centos\_hardening

cd my\_namespace/centos\_hardening

3. Create a Role for Hardening:

Example: `roles/hardening/tasks/main.yml`

yaml name=roles/hardening/tasks/main.yml

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# Disable unused services

- name: Ensure unnecessary services are stopped and disabled

service:

name: "{{ item }}"

state: stopped

enabled: no

with\_items:

- docker

- httpd

# Install necessary packages

- name: Install required packages

yum:

name:

- wget

- vim

- epel-release

state: present

# Configure SSH

- name: Harden SSH configuration

lineinfile:

path: /etc/ssh/sshd\_config

regexp: "{{ item.regexp }}"

line: "{{ item.line }}"

state: present

with\_items:

- { regexp: '^#?PermitRootLogin', line: 'PermitRootLogin no' }

- { regexp: '^#?PasswordAuthentication', line: 'PasswordAuthentication no' }

- { regexp: '^#?Protocol', line: 'Protocol 2' }

notify: Restart SSHD

# Set file permissions

- name: Set correct permissions on /etc/passwd

file:

path: /etc/passwd

owner: root

group: root

mode: '0644'

- name: Set correct permissions on /etc/shadow

file:

path: /etc/shadow

owner: root

group: root

mode: '0000'

# Configure firewall

- name: Ensure firewalld is running and enabled

service:

name: firewalld

state: started

enabled: yes

4. Set Default Variables:

Example: `roles/hardening/defaults/main.yml`

yaml name=roles/hardening/defaults/main.yml

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sshd\_config\_file: /etc/ssh/sshd\_config

5. Create Handlers:

Example: `roles/hardening/handlers/main.yml`

yaml name=roles/hardening/handlers/main.yml

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- name: Restart SSHD

service:

name: sshd

state: restarted