Notes Configuration management

Monday, October 14, 2024 11:28 AM

To set up password-less SSH login from machine E to all other machines for System Admin (arma2040)
Generate SSH key pair on Machine E
ssh-keygen -t rsa

Copy Public Key to All Other Machines
ssh-copy-id arma2040@100.64.28.1
ssh-copy-id arma2040@100.64.28.2
ssh-copy-id arma2040@100.64.28.3
ssh-copy-id arma2040@100.64.28.4
ssh-copy-id arma2040@100.64.28.6

Test Password-less SSH:
ssh arma2040@100.64.28.1

Do this in arma2040@10.21.32.2(Machine E)
you should be logged in without entering a password.

Install ansible on Machine E from the Rocky Linux repository using dnf.

sudo dnf update
sudo dnf install ansible

Set Up Ansible Host Group:
sudo nano /etc/ansible/hosts

Add the following content to define the saclass group:
[saclass]
100.64.28.1
100.64.28.2
100.64.28.3
100.64.28.4
100.64.28.6

Create the mkdmuserplay Script:
Navigate to the sysadmin home directory:
cd /home/arma2040

Create the mkdmuserplay script:
nano mkdmuserplay

Write the script here

Make the script executable
chmod +x mkdmuserplay

Run the script to generate the dmusers.yaml Ansible playbook:

sudo ./mkdmuserplay

This will create the dmusers.yaml file in the current working dictionary, containing all the users and parameters from /etc/passwd, /etc/shadow, /etc/group

Apply the Playbook to the Machines
ansible-playbook dmusers.yaml --ask-become-pass

Check the name of the Umask File on Machine E:
It should be like this
/etc/profile.d/umask.sh

Create the ansible playbook:
Nano umask.yaml

```
---
- name: Copy umask.sh to all machines
  hosts: saclass
  become: true
  tasks:
    - name: Copy umask.sh from Machine E to target machines
      copy:
        src: /etc/profile.d/umask.sh
        dest: /etc/profile.d/umask.sh
        owner: root
        group: root
        mode: '0644'  # rw for owner, r for group and others
```

Run the Playbook:
ansible-playbook ~/umask.yaml --ask-become-pass

This will ensure that the umask file on Machines A, B, C, D, and F matches the file on Machine E with the correct ownership and permissions.

For Webcheck:
Go and edit the sudo nano /etc/ansible/hosts

There below saclass add
[webcheck]
100.64.28.3
100.64.28.4

Create an yaml file in the home directory of arma2040:
Nano Webcheck.yaml

```
---
- hosts: webserver
  become: true
```

```
  tasks:
    - name: Ensure the web server is installed and up to date on Debian
      ansible.builtin.apt:
        name: apache2  # Change to 'nginx' if using Nginx
        state: latest
      when: ansible_os_family == "Debian"

    - name: Ensure the web server service is running and enabled at boot on Debian
      ansible.builtin.service:
        name: apache2  # Change to 'nginx' if using Nginx
        state: started
        enabled: true
      when: ansible_os_family == "Debian"

- hosts: webserver
  become: true
  tasks:
    - name: Ensure the web server is installed and up to date on Rocky
      ansible.builtin.yum:
        name: httpd  # Change to 'nginx' if using Nginx
        state: latest
      when: ansible_os_family == "RedHat"

    - name: Ensure the web server service is running and enabled at boot on Rocky
      ansible.builtin.service:
        name: httpd  # Change to 'nginx' if using Nginx
        state: started
        enabled: true
      when: ansible_os_family == "RedHat"
```

Run the Playbook:

```
ansible-playbook ~/webcheck.yaml --ask-become-pass
```

This will ensure the web servers are up-to-date, running, and enabled on boot.

It took me 10 hours to complete the assignment