

Notes for PAM

Sunday, October 6, 2024 11:19 PM

First we need to install PAM in the virtual machines the commands to install PAM are for rocky machines(A,B,C,E) is:

Sudo dnf install pam pam-devel

Commands to install PAM in debian machines (C,F)

Sudo apt update

Sudo apt install libpam0g-dev libpam-runtime libpam-modules

To enable PAM in debian machines:

Go to **sudo nano/etc/pam.d/login**

Uncomment *account required pam_access.so*

Go to **sudo nano/etc/pam.d/sshd**

Uncomment *account required pam_access.so*

Restart the sshd

Sudo systemctl restart sshd

To enable PAM:

Go to **sudo nano /etc/pam.d/system-auth**

Add the following command

Account required pam_access.so

Go to **sudo nano/etc/pam.d/password-auth**

Add the following command

Account required pam_access.so

We need to restart the sshd

Sudo systemctl restart sshd

Here to make the restrictions we need to add the following commands in

Sudo nano /etc/security/access.conf

+:root:ALL

+:arma2040:ALL

+:mscott:ALL

+:dschrute:ALL

-:ALL:ALL

These users should login and others shouldn't.

We have to do the same to all the machines

For machine E

All the users should be able to login

We should add the following command in

Sudo nano /etc/security/access.conf

+:ALL:ALL

In machine C and D we need to allow pbeesly, k Kapoor, abernard to login
So we need to add the following command in
Sudo nano /etc/security/access.conf

+:pbeesly, abernard, k Kapoor:ALL

The password policy must be enforced on all machines using PAM.

For that we need to change the
Sudo nano /etc/security/pwquality.conf

Here uncomment and change the values of
Minlen = 10
Dcredit = -2
Ucredit = -2
Lcredit = 0
Ocredit = -1

Go to the user and change the password if the new password doesn't match the requirements it will show bad password.

Implement a limitation that DM employees other than root, yourself and Dwight Schrute should only be able to log in to Machines C and D between 9am and 5pm on weekdays.

We need to implement the login time restriction using pam_time in machine C and D
For that we need to uncomment the following line in
Account required pam_time.so

Sudo nano /etc/pam.d/sshd
Sudo nano /etc/pam.d/login

We need to add the following command in
Sudo nano /etc/security/time.conf

login;:!root&!arma2040&!dschrute;Wk0900-1700*
sshd;:!root&!arma2040&!dschrute;Wk0900-1700*

other than root, arma2040, dschrute others can't login anytime.

Restart SSH service
Sudo systemctl restart sshd

Try to login as pbeesly in machine c (on Sunday)
Ssh pbeesly@100.64.28.3
Connection is closed at port 22

This means you can't login as pbeesly during weekend because of the restrictions you can login only on weekdays Monday to Friday 9:00 AM to 5:00PM

It took me around 5 to 7 hours to complete the assignment