Lab 4.6.6 Deleting a User Securely from a Linux System

From TestOut CompTIA Security+ Course

In this lab, I will be deleting a user from a hypothetical company's Linux server.

"The scenario for this lab is as follows:

Terry Haslam (thaslam) was dismissed from the organization. His colleagues have harvested the files they need from his home and other directories. Your company security policy states that upon dismissal, the user's accounts should be removed in their entirety.

In this lab, your task is to:

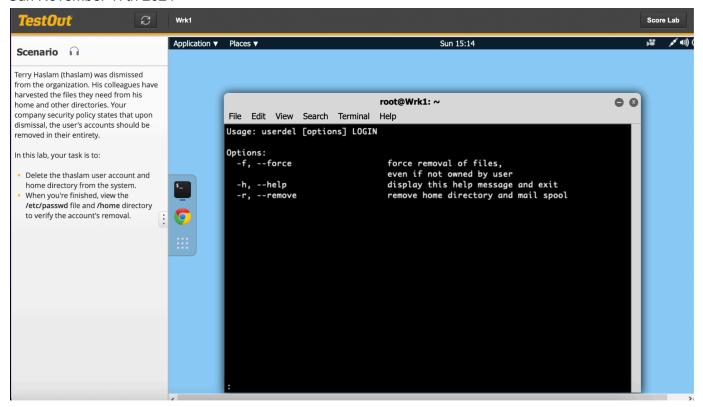
- Delete the thaslam user account and home directory from the system.
- When you're finished, view the /etc/passwd file and /home directory to verify the account's removal."

The best of going about this fairly simple task is to utilize the "userdel" binary which is part of almost every GNU/Linux System. To see what we can do with the command, let's query the man page for userdel.

Robert Carpenter

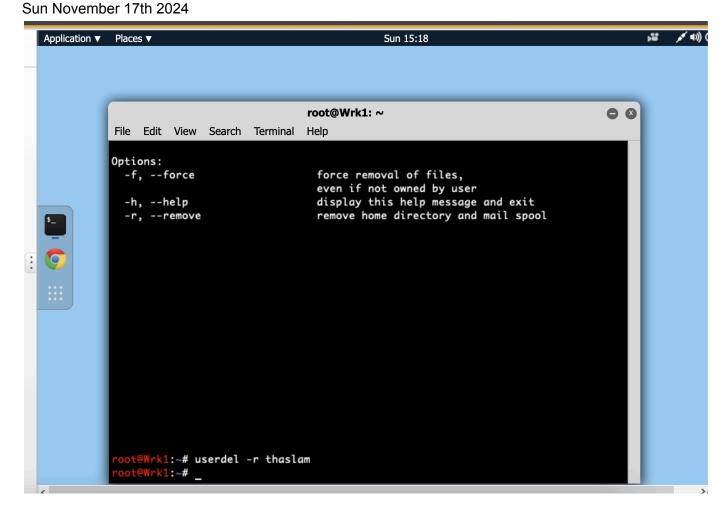
github.com/robertmcarpenter

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Wow, that's a very simple command! This makes our job much easier! Since our first task states that we should be deleting the thaslam user's /home/thaslam directory, we will want to supply the "-r" flag. The "-f" force flag can be potentially destructive as it states that it will "force removal of files even if not owned by user." We don't need to use it in this case since our colleagues have already harvested all the needed files from the thaslam account.

To delete this user enter in on the command line "userdel -r thaslam"



I know my command was successful because the shell is now prompting to enter another one. To complete the second part of the task which is to verify that the user has been removed from the system. We can know this by checking for the existence of the "thaslam" user in the /home directory as well as the /etc/shadow file. First let's verify their home directory was deleted by entering "Is -la /home" and looking for the thaslam username.

```
Application ▼ Places ▼
                                                       Sun 15:20
                                           root@Wrk1: ~
           File Edit View Search Terminal Help
                @Wrk1:~# userdel -r thaslam
@Wrk1:~# ls -la /home
           total 44
           drwxr-xr-x. 2
                              root
                                         root 4096 Oct 01 2021
                                                 0 Aug 12 08:49
           dr-xr-xr-x. 2
                              root
                                         root
           drwxr-xr-x. 2 aespinoza aespinoza 4096 Aug 12 08:49 aespinoza
           drwxr-xr-x. 2 bcassini bcassini 4096 Aug 12 08:49 bcassini
           drwxr-xr-x. 2
                            bkahn
                                        bkahn 4096 Aug 12 08:49 bkahn
                            cflynn
                                       cflynn 4096 Aug 12 08:49 cflynn
           drwxr-xr-x. 2
           drwxr-xr-x. 2
                            mbrown
                                       mbrown 4096 Aug 12 08:49 mbrown
           drwxr-xr-x. 2
                                        placy 4096 Aug 12 08:49 placy
                             placy
                                       rcronn 4096 Aug 12 08:49 rcronn
           drwxr-xr-x. 2
                            rcronn
           drwxr-xr-x. 2
                            schawla
                                      schawla 4096 Aug 12 08:49 schawla
                          vedwards vedwards 4096 Aug 12 08:49 vedwards
           drwxr-xr-x. 2
           drwxr-xr-x. 2
                                       wadams 4096 Aug 12 08:49 wadams
                             wadams
```

As you can see, their username is not present. Now let's check the /etc/shadow file. Enter "cat /etc/shadow" (we are root so we don't need sudo, although you would want to put sudo in the real world because you never want to run around a Linux system with root privileges! It's dangerous!)

```
Application ▼ Places ▼
                                                       Sun 15:22
                                          root@Wrk1: ~
           File Edit View Search Terminal
           nscd:!!:14715:0:99999:7::
           rpcuser:!!:14715:0:99999:7::
           nfsnobody:!!:14715:0:99999:7::
           tcpdump:!!:14715:0:99999:7::
           torrent:!!:14715:0:99999:7::
           avahi:!!:14715:0:99999:7::
           saslauth:!!:14715:0:99999:7::
           mailnull:!!:14715:0:99999:7::
           smmsp:!!:14715:0:99999:7::
           mysql:!!:14715:0:99999:7::
           haldaemon:!!:14715:0:99999:7::
           sshd:!!:14715:0:99999:7::
           wadams:$FfVAvX4rpXJCsLbjXzW1ew==:19947.32572340278:0:99999:7::
           rcronn: $FfVAvX4rpXJCsLbjXzW1ew==:19947.325724583334:0:99999:7::
           vedwards:$FfVAvX4rpXJCsLbjXzW1ew==:19947.325725509258:0:99999:7::
           cflynn:\frac{FfVAvX4rpXJCsLbjXzW1ew==:19947.325726388888:0:99999:7::
           mbrown: $FfVAvX4rpXJCsLbjXzW1ew==:19947.325727314816:0:99999:7::
           placy:$FfVAvX4rpXJCsLbjXzW1ew==:19947.325728263888:0:99999:7::
           bcassini:$FfVAvX4rpXJCsLbjXzW1ew==:19947.3257290625:0:99999:7::
           aespinoza:$FfVAvX4rpXJCsLbjXzW1ew==:19947.325729849537:0:99999:7::
           bkahn:$FfVAvX4rpXJCsLbjXzW1ew==:19947.325730671295:0:99999:7::
           schawla:$FfVAvX4rpXJCsLbjXzW1ew==:19947.32573162037:0:99999:7::
             ot@Wrk1:~#
```

After parsing through the output I can see that their account no longer exists! We are successful! This will now conclude this lab!

Robert Carpenter

github.com/robertmcarpenter

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