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Sun November 17th 2024

Lab 4.6.9 Lock and Unlock User accounts on a Linux System

From TestOut CompTIA Security+ Course

In this lab I will be locking and unlocking user accounts on a Linux system. The lab provides a list of users for us to evaluate.

“The scenario for this lab is as follows:

Every seven years, your company provides a six-week sabbatical for every employee. Vera Edwards (vedwards), Corey Flynn (cflynn), and Bhumika Kahn (bkahn) are leaving today. Maggie Brown (mbrown), Brenda Cassini (bcassini), and Arturo Espinoza (aespinoza) are just returning.

The company security policy mandates that user accounts for employees gone for longer than two weeks be disabled.

In this lab, your task is to:

- **Lock the following user accounts:**
  - **vedwards**
  - **cflynn**
  - **bkahn**
- **Unlock the following user accounts:**
  - **mbrown**
  - **bcassini**
  - **aespinoza**
- **When you're finished, view the /etc/shadow file to verify the changes.**

To achieve our 1st goal of locking user accounts we can use 2 methods on a Linux systems. “Usermod” and “passwd” both have functions built in that can lock a user account. For the sake of using a different binary for this lab (since we used passwd in the last 2 labs) we’ll go with “usermod.”

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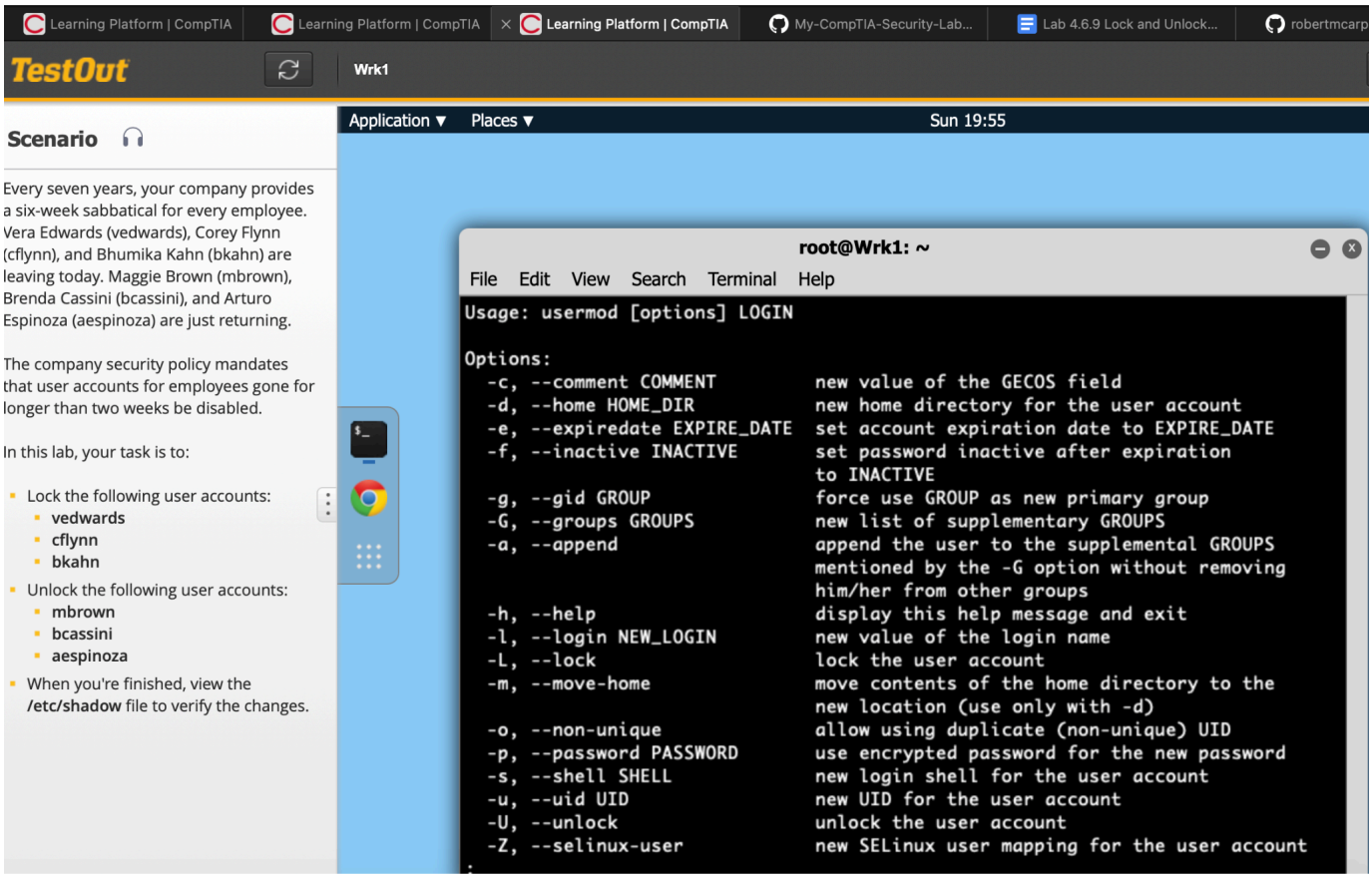
Now, how do I know that the usermod command can be used for locking accounts? Simple. Let's query the man page for usermod to take a look at the arguments we can pass it. Typing "man usermod" we get:



We can see that the option -L or - -lock (two dashes) can be passed. Either flag works as they are the same thing. Note that in Linux , flags that contain whole words are denoted by a double dash , while flags that are simply just letters are denoted by a single dash. Let's go ahead and lock the 3 user accounts as requested which are :

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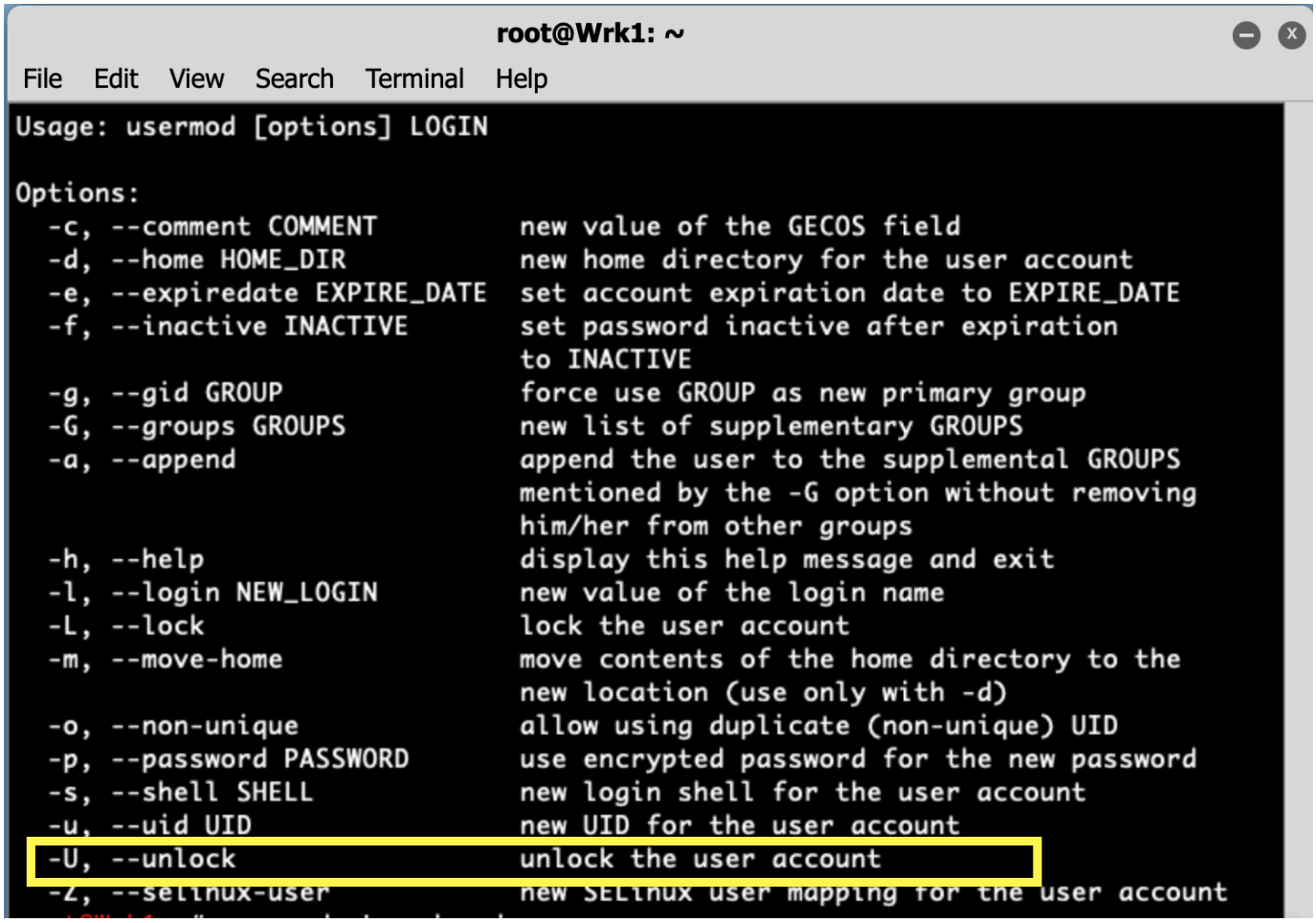
To demonstrate the abbreviated and full flag names I entered the second command with –lock instead of -L.

Now that we've locked those users now let's move on to unlocking users which are returning from their 2 week sabbatical. Taking another look at the man page I can see that I can reuse the usermod command but this time, I will need to pass a -U or - - unlock flag to do this.



Since we are root, let's go ahead and unlock the requested user accounts by passing "usermod -U or –unlock [login]"

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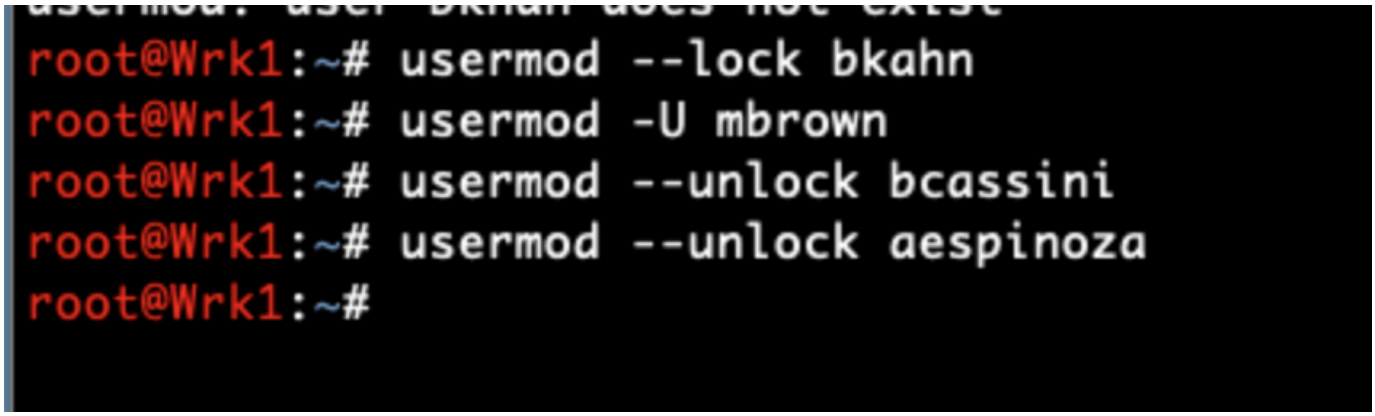

We can see that the commands were successful because there are no error messages and the shell is prompting us for more input.

Lastly, now that we've locked and unlocked user accounts, let's query the /etc/shadow file to verify that we've done the correct operations on the right accounts. Since we are root simply type: "cat /etc/shadow"

We can see the unlocked accounts in green (which DOES NOT contain "!!") and the locked ones in Red (which DO contain a "!!"). This is how we can tell the status of the account.

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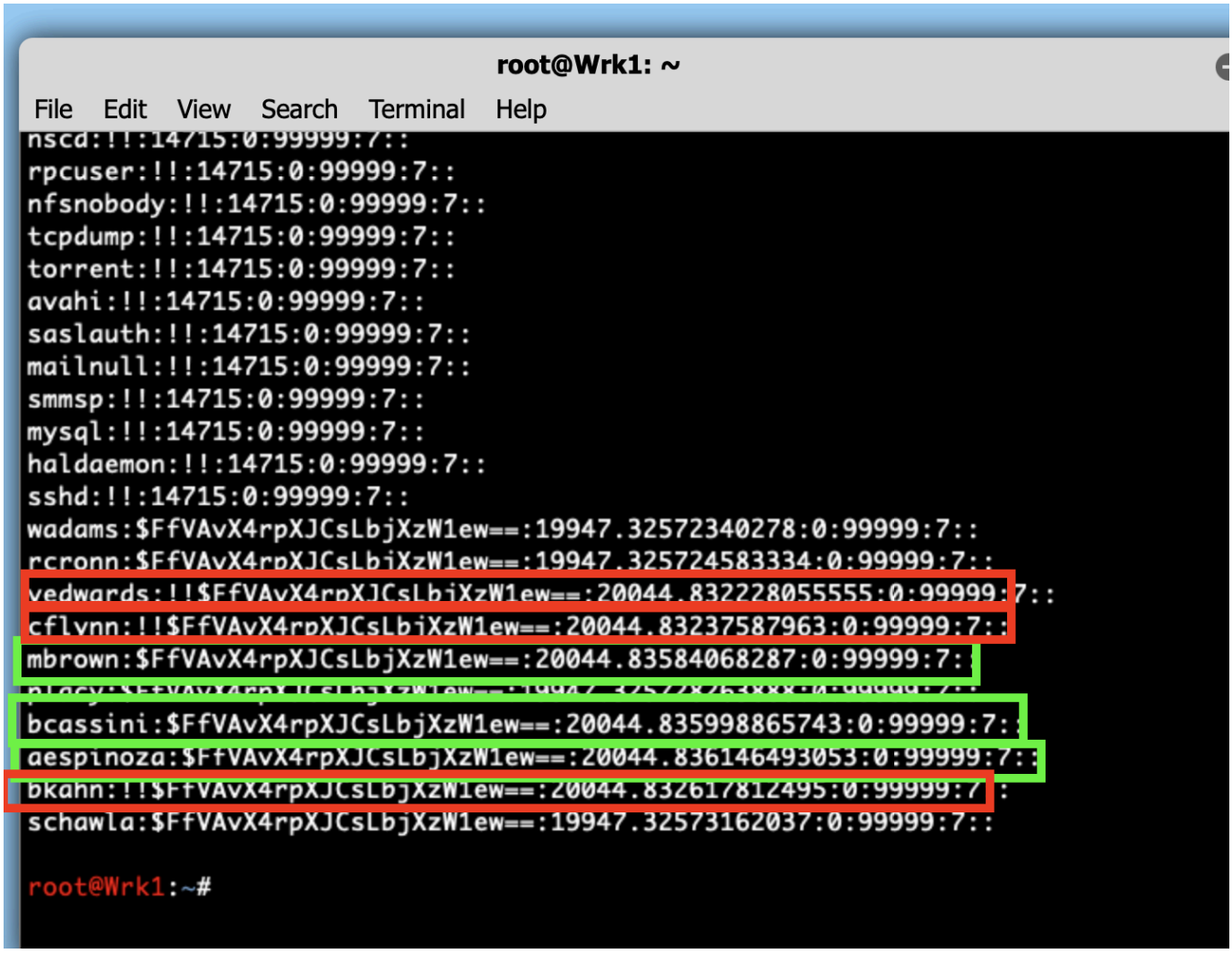

This now concludes the lab!

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