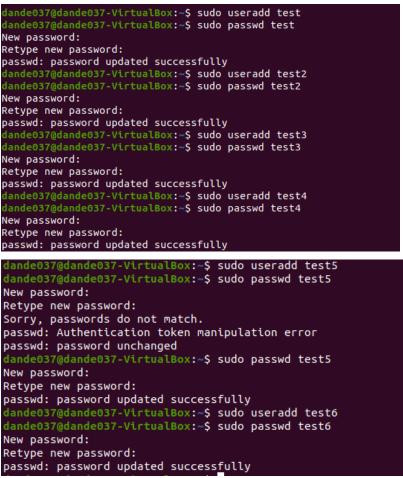
Assignment 5 - Password Cracking

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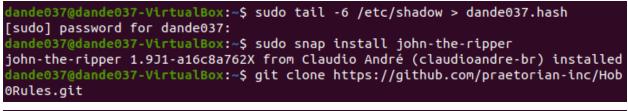
<u>Task A</u>



Six user accounts are created with the useradd command, test1-6, with the specified password requirements for each set with the passwd command. The following passwords for reference in order are tree, 1322, duck93, 1book%, 94smile, 83HeIP#@. (A password was mistyped for test5, but was reentered correctly).



A hash file is created with umask and the touch command, then all user passwords are stored into it through the tail command.



dande037@dande037-VirtualBox:~\$ cp Hob0Rules/wordlists/rockyou.txt.gz /home/dan de037

dande037@dande037-VirtualBox:~\$ gunzip rockyou.txt.gz

John the ripper is installed, a dictionary file is then installed from github, the directory is then cloned to the main home directory using cp, then the rockyou file is unzipped.

dande037@dande037-VirtualBox:~\$ john --wordlist=rocyou.txt dande037.hasl Created directory: /home/dande037/snap/john-the-ripper/459/.john Warning: detected hash type "sha512crypt", but the string is also recogn "sha512crypt-opencl" Use the "--format=sha512crypt-opencl" option to force loading these as a e instead Using default input encoding: UTF-8 Loaded 6 password hashes with 6 different salts (sha512crypt, crypt(3) S 512 256/256 AVX2 4x]) Cost 1 (iteration count) is 5000 for all loaded hashes fopen: rocyou.txt: No such file or directory dande037@dande037-VirtualBox:~\$ john --show dande037.hash 0 password hashes cracked, 6 left

The john the ripper program is then used in wordlist mode and checked after 10 minutes to see how many passwords have been broken.