Assignment: Lab 5

<u>Task A</u>

Step 1: Create 6 users that meet the password complexity requirements

- 1.1: Execute "sudo useradd -m user1 && sudo passwd user1"
 User1 = <u>dictionary</u> (cracked)
- 1.2: Execute "sudo useradd -m user2 && sudo passwd use2"
 User2 = <u>1235</u> (cracked)
- 1.3: Execute "sudo useradd -m user3 && sudo passwd user3"

User3 = dogs124

- 1.4: Execute "sudo useradd -m user4 && sudo passwd user4"
 User4 = cats78*!
- 1.5: Execute "sudo useradd -m user5 && sudo passwd user5"
 User5 = <u>curtain27</u>
- 1.6: Execute "sudo useradd -m user6 && sudo passwd user6"

User6 = $\underline{PiLl0w13*!}$

اجر bburke@ubuntu-vm: ~		Q =	×
bburke@ubuntu-vm:-\$ sudo useradd -m user1 && sudo passwd user1 New password: BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word Retype new password:	Step 1.1		
passwd: password updated successfully bburke@ubuntu-vm:-\$ bburke@ubuntu-vm:-\$ sudo useradd -m user2 && sudo passwd user2 ◀ New password: BAD PASSWORD: The password is shorter than 8 characters Retype new password:	Step 1.2		
passwd: password updated successfully bburke@ubuntu-vm:-\$ bburke@ubuntu-vm:-\$ bburke@ubuntu-vm:-\$ sudo password: BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word Retype new password:	Step 1.3		
passwd: password updated successfully bburke@ubuntu-vn:-\$ bburke@ubuntu-vn:-\$ New password: BAD PASSWORD: The password is shorter than 8 characters Retype new password: passwd: password updated successfully	Step 1.4		
passwo: password updated successfully bburkegubuntu-vn:-\$ bburkegubuntu-vn:-\$ New password: BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word Retype new password: password updated successfully	Step 1.5		
passwo: passwo: posted successforcy bburke@uburtu-vn:-\$ bburke@uburtu-vn:-\$ sudo useradd -m user6 && sudo passwd user6 Aetype new password: passwd: password updated successfully bburke@uburtu-vn:-\$	Step 1.6		

Step 2: Export user hashes with "sudo cat /etc/shadow | tail -6 > bburk002.hash"

Step 3: Let john run for 10 minutes with the command "john

--wordlist=rockyou.txt bburk002.hash". A total of 2 out of 6 passwords were cracked. User1's password and User2's password were cracked.

A	bburke@ubuntu-vm: ~	Q		
user1:\$6\$IrB user2:\$6\$c3J user3:\$6\$2yU user4:\$6\$eV8 user5:\$6\$66q user6:\$6\$wCK bburke@ubunt bburke@ubunt	J-VM:-\$ sudo cat /etc/shadow tail -6 > bburk002.hash ◀	7::: ::: :::		
bburke@ubunt Using defaul	u-vm:-\$ johnwordlist=rockyou.txt bburk002.hash ◀────────────────────────────────────	p 3		
Loaded 6 pas Cost 1 (iter Will run 4 0 Press 'q' or dictionary 1235 2g 0:00:10:1 Use the "s Session abor bburke@ubunt user1:dictio user2:1235:1	sword hashes with 6 different salts (sha512crypt, crypt(3) \$6\$ [SHA512 128/128 ASIMD 2x]) ation count) is 5000 for all loaded hashes penMP threads (trl-C to abort, 'h' for help, almost any other key for status (user1) (user2) 12.93% (ETA: 01:25:38) 0.003272g/s 796.7p/s 3734c/s 3734C/s may81997matching now" option to display all of the cracked passwords reliably ted J=Vm: \$ johnshow bburk002.hash hary:19627:01:999999:7::: 9627:01:999999:7:::			
	I			

Extra Credit

Step 1: Use john to find the provided <u>MD5</u> hashes. First, create a text file with vim called "md5 hashes.txt" with the hashes stored inside.

Step 2: Execute "john --format=raw-md5 --wordlist=rockyou.txt md5_hashes.txt"

Step 3: Execute "john --format=raw-md5 --show md5_hashes.txt" and get the

following result:

5f4dcc3b5aa765d61d8327deb882cf99 = password

63a9f0ea7bb98050796b649e85481845 = root

	bburke@ubuntu-vm: ~		Q = -	
bburke@ubuntu-vm:-\$ cat md5_hashes.txt 5f4dcc3b5aa765d61d8327deb882cf99 63a9f0ea7bb98050796b649e85481845		Step 1		
burkegubuntu-vm:-\$ bburkegubuntu-vm:-\$ johnformat=raw-md5wordlist=rockyo Using default input encoding: UTF-8 Loaded 2 password hashes with no different salts (Raw-MD5 [Warning: no OpenMP support for this hash type, considerf Press 'q' or Ctrl-C to abort, 'h' for help, almost any othe password (?)	MD5 128/128 ASIMD 4x2])	- Step 2		
root (?)				
2g 0:00:00:00:00 DONE (2023:09-27 20:11) 33.33g/S 13448Kp/S 13 Use the "showformat=Raw-MD5" options to display all of Session completed. bburke@ubuntu-vm:-\$ bburke@ubuntu-vm:-\$ johnshowformat=raw-md5 md5_hashes ?:password ?:root	.txt 🗸	• Step 3		
2 password hashes cracked, 0 left bburke@ubuntu-vm:-\$				
				1