Old Dominion University

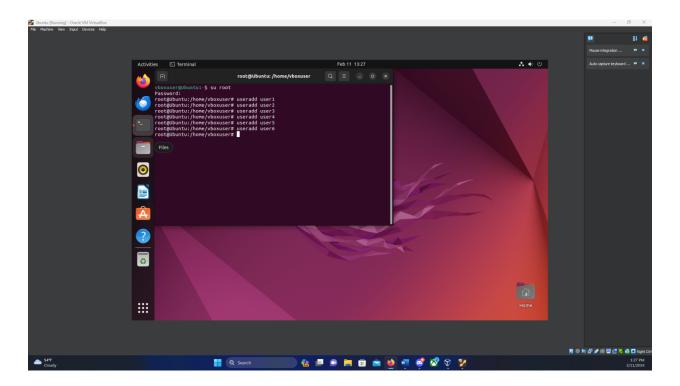
CYSE 270 Linux System for Cybersecurity

Assignment #5

Anthony Waterman

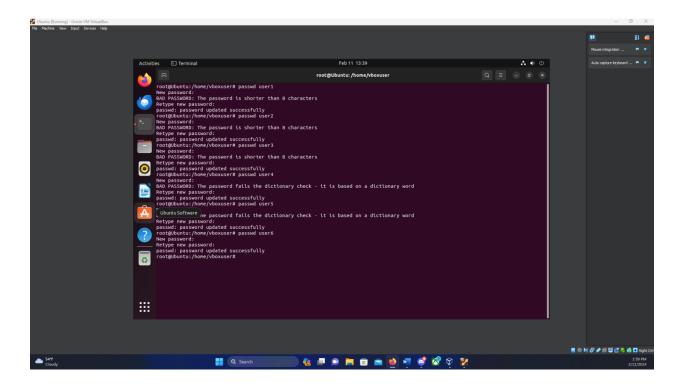
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1. Create 6 users in your Linux Terminal, then set the password for each user that meets the following requirements respectively. You should list the passwords created for each user.

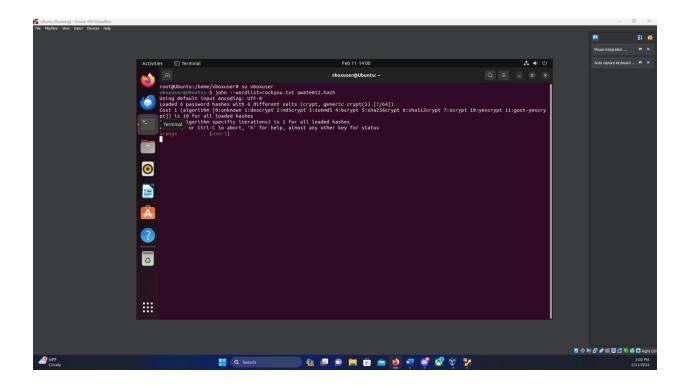


- a. For user1, the password should be a simple dictionary word (all lowercase)
 - i. User1's set password is **orange**.
- b. For user2, the password should consist of 4-character digits
 - i. User2's set password is 1234.
- c. For user3, the password should consist of a simple dictionary word of any length (all lowercase) + digits
 - i. User3's set password is hotdog1.
- d. For user4, the password should consist of a simple dictionary word (all lowercase) +
 digits + symbols
 - i. User4's set password is **building1!**.

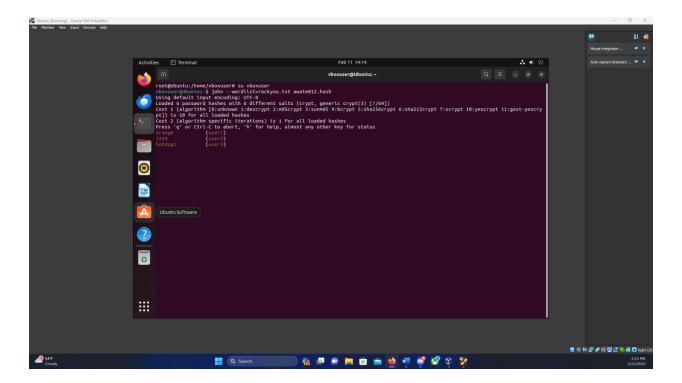
- e. For user5, the password should consist of a simple dictionary word (all lowercase) + digits
 - i. User5's set password is **controller23**.
- f. For user6, the password should consist of a simple dictionary word (with a combination of lower and upper case) + digits + symbols
 - i. User6's set password is Keyboard567!@.



- 2. Export above users' hashes into a file names xxx.hash (replace xxx with your MIDAS) and use John the Ripper tool to crack their passwords in wordlist mode (use rockyou.txt).
 - a. Screenshot is on the next page.

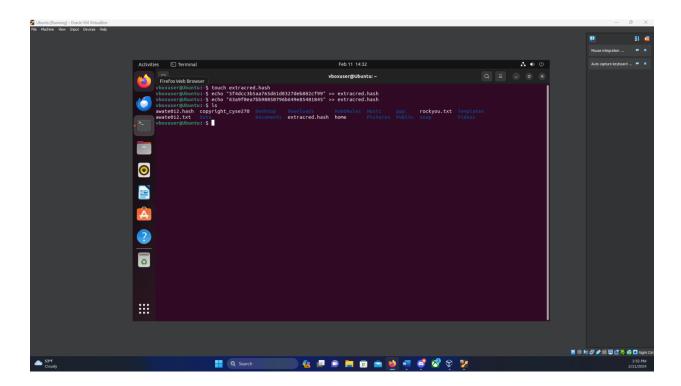


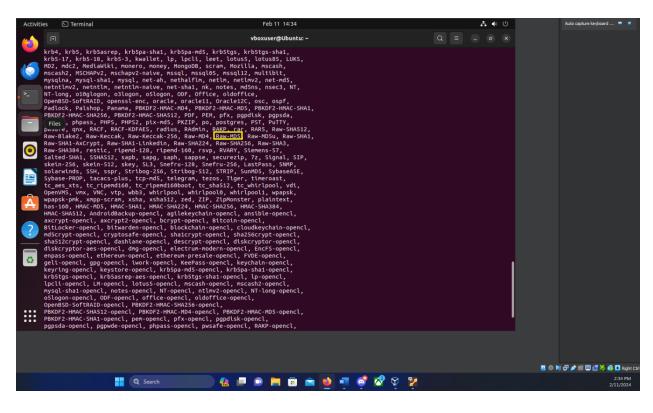
- 3. Keep your John the Ripper cracking for 10 minutes. How many passwords have been successfully cracked?
 - a. Three passwords were successfully cracked.

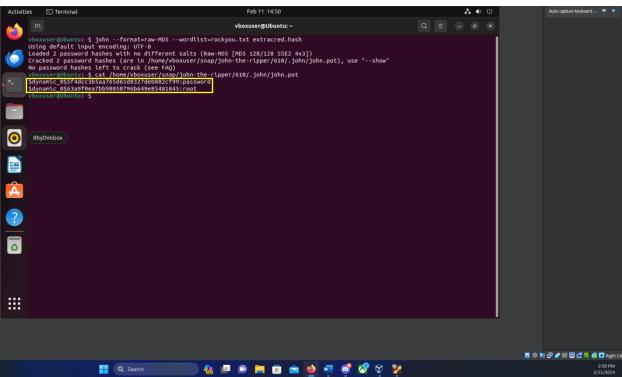


Extra Credit

4. Find and use the proper format in John the Ripper to crack the following MD5 hash. Show your steps and results.







- a. The steps I took are as follows:
 - i. I created a hash file
 - ii. I then used the echo command to write the provided MD5 hash information to the file
 - iii. I then utilized the help section for John the Ripper
 - iv. I used the "john –list=formats" command to bring up the format list for John the Ripper.
 - v. In this list I found the format Raw-MD5
 - vi. I then used the command "john –format=raw-MD5 –wordlist=rockyou.txt extracred.hash"
 - vii. The information was decrypted
 - viii. I then display the passwords associated with the decrypted information