Practical 3

Student Name:

Uteshlen Nadesan 28163304

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1 Task 1

Find the password hash for the root account on your Kali Linux virtual machine (hint -look at '/etc/shadow' as root). Place the hash in your own file (hint - consult online documentation for shadow file format and look in '/etc/login.defs'). Use hashcat to bruteforce the password (hint - use 'hashcat -h' and online documentation). Provide the following for your answer:

1.1 Hash type used by Kali Linux. [1]

Hashtype: SHA-512

1.2 Hashcat command line with parameters used. [4]

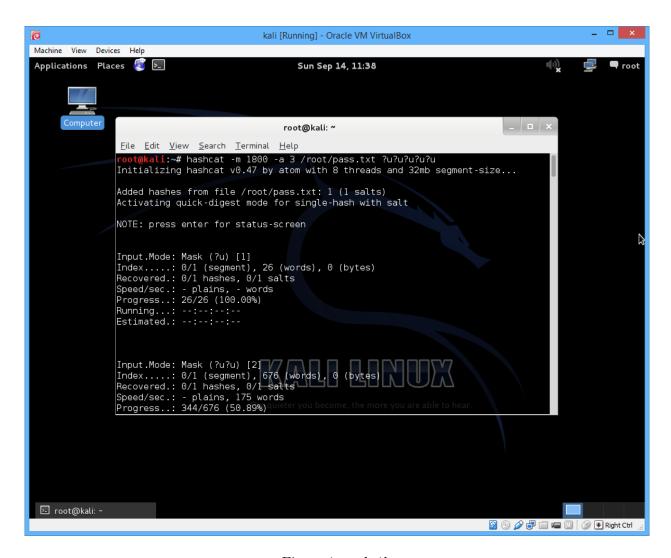


Figure 1: task 1b

1.3 Screenshot of hashcat clearly showing the retrieved password (root) and time elapsed. [2]

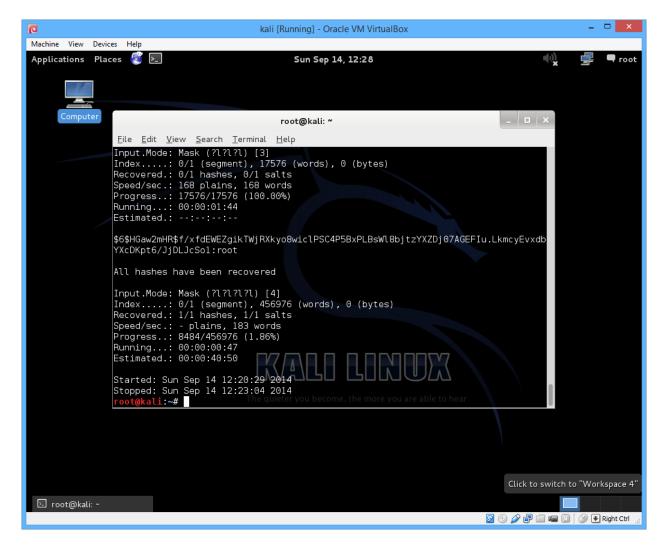


Figure 2: task 1c

2 Task 2

Now use hashcat on the password hash of your own account. Show that the chosen password is weak if the format is known. Provide the following for your answer:

2.1 Hashcat command line with parameters used. [4]

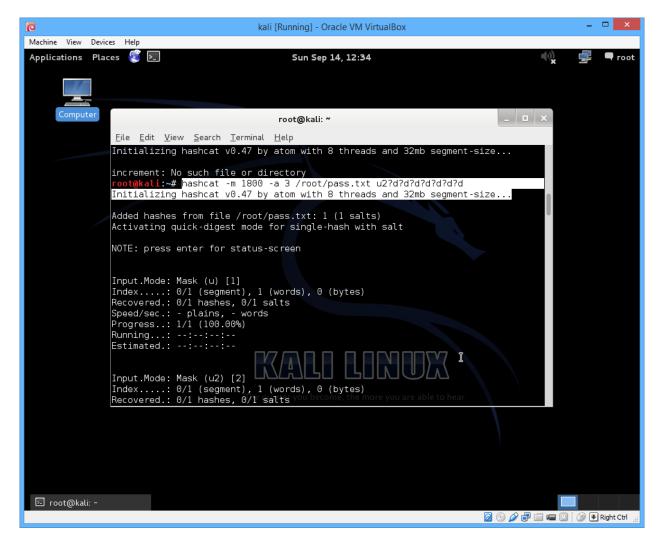


Figure 3: task 2a

2.2 Screenshot of hashcat running (status) with time left estimation. [2]

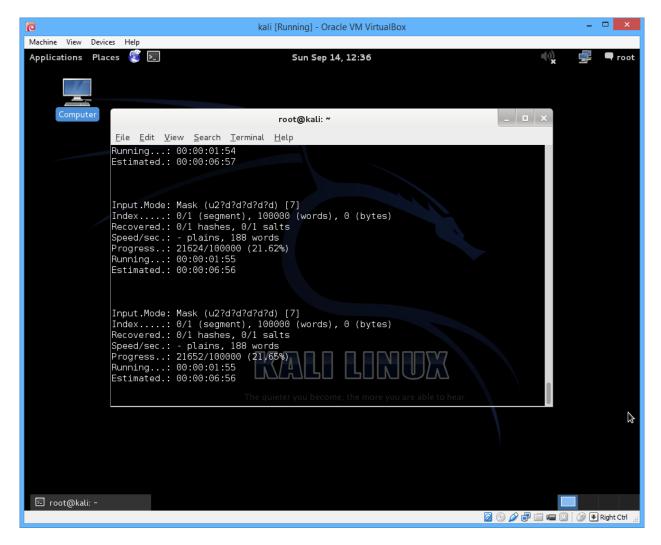


Figure 4: task 2b - running

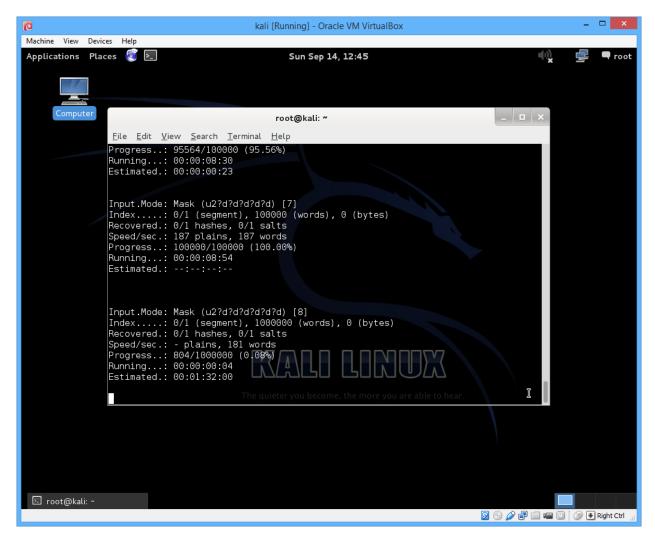


Figure 5: task 2b - running

3 Task 3

Change your password to a strong password. Use hashcat to prove the password is strong. Provide the following for your answer:

3.1 Your chosen password. [1]

Chosen Password: F@.k3pSW*d!171

3.2 Hashcat command line with parameters used. [4]

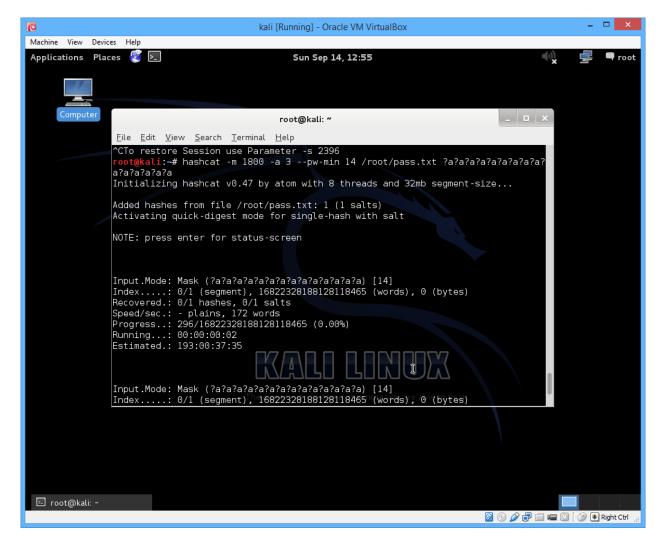


Figure 6: task 3b

3.3 Screenshot of hashcat running (status) with time left estimation. [2]

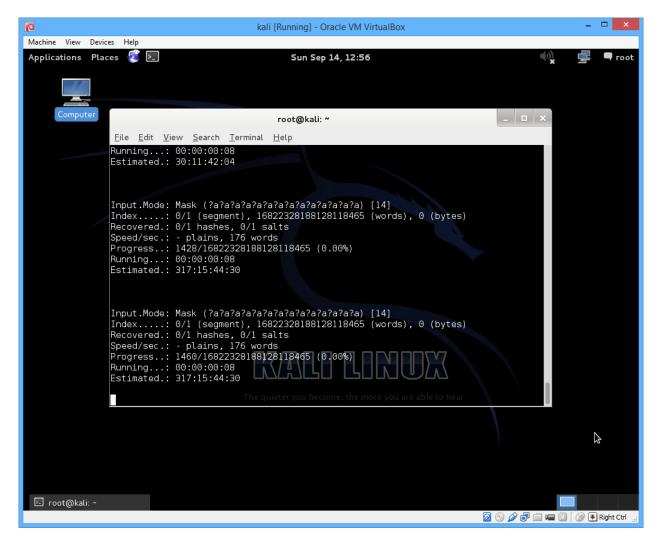


Figure 7: task3c