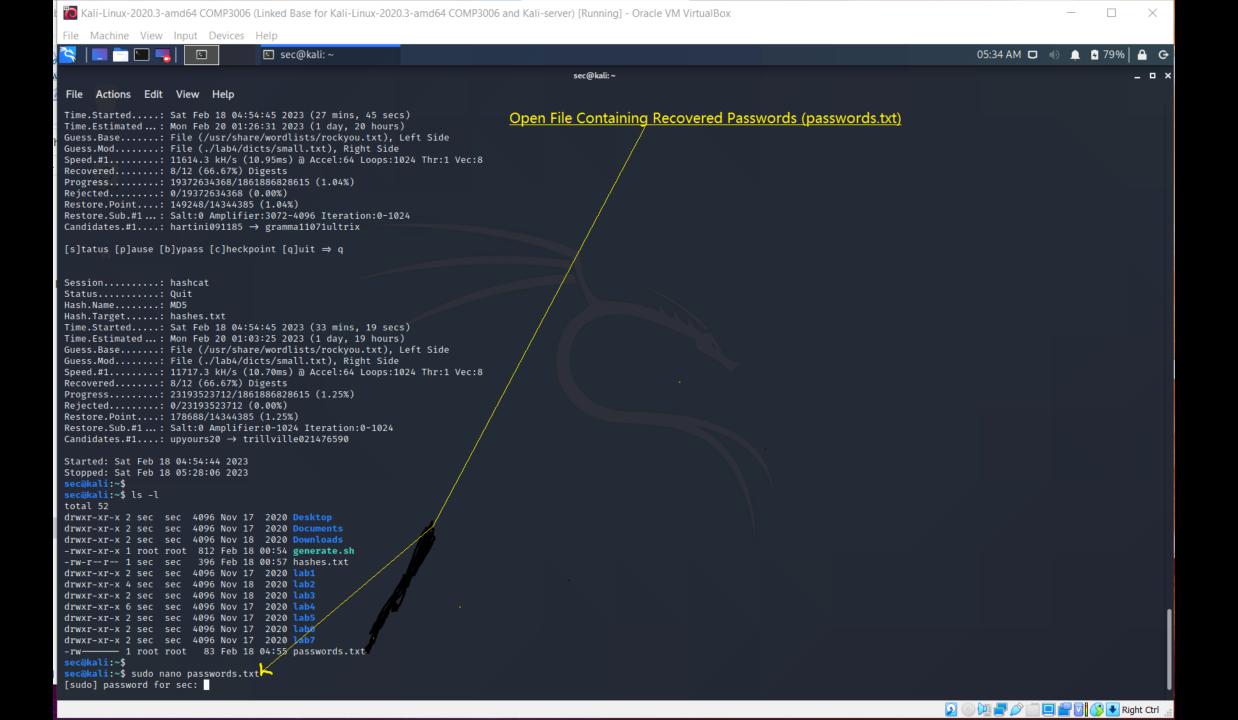


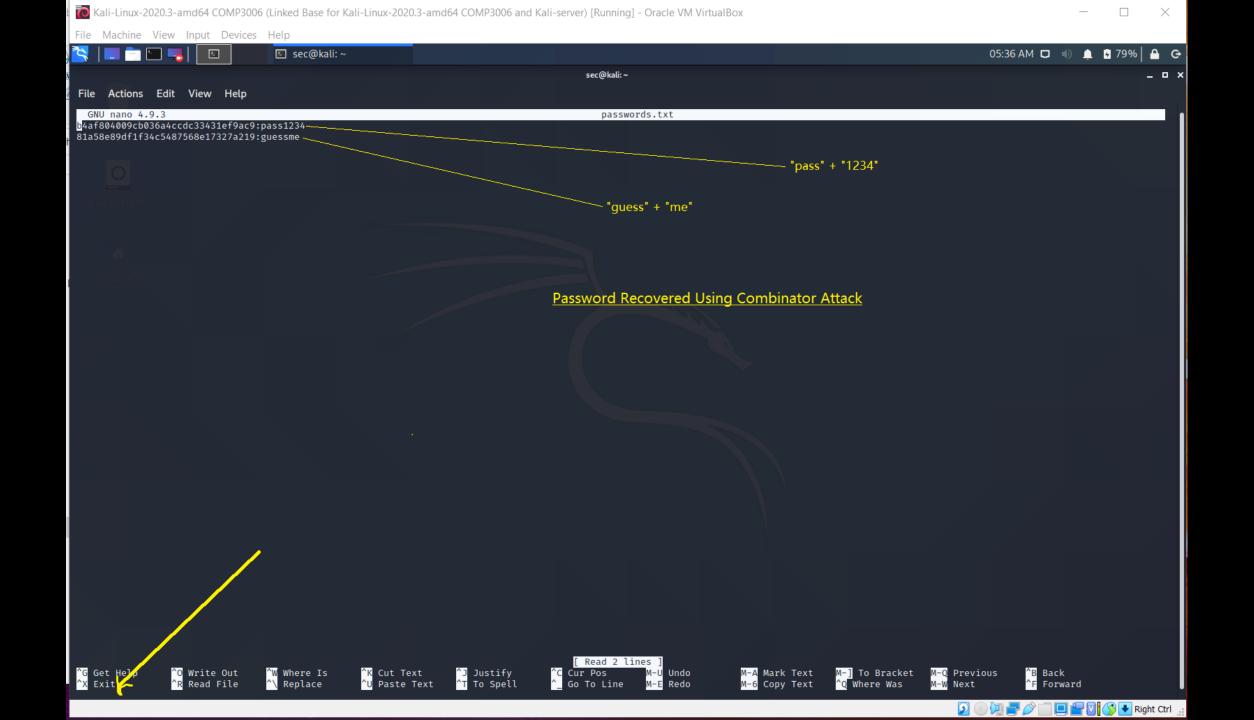
```
sec@kali:~
File Actions Edit View Help
Hashes: 12 digests; 12 unique digests, 1 unique salts
Bitmaps: 16 bits, 65536 entries, 0x0000ffff mask, 262144 bytes, 5/13 rotates
Applicable optimizers:
* Zero-Byte
* Early-Skip
* Not-Salted
* Not-Iterated
* Single-Salt
* Raw-Hash
ATTENTION! Pure (unoptimized) backend kernels selected.
Using pure kernels enables cracking longer passwords but for the price of drastically reduced performance.
If you want to switch to optimized backend kernels, append -O to your commandline.
See the above message to find out about the exact limits.
Watchdog: Hardware monitoring interface not found on your system.
Watchdog: Temperature abort trigger disabled.
INFO: Removed 7 hashes found in potfile.
Host memory required for this attack: 64 MB
Dictionary cache hit:
* Filename..: /usr/share/wordlists/rockyou.txt
* Passwords.: 14344385
                                                       Use "s" to check the status
* Bytes....: 139921507
* Keyspace..: 1861886828615
[s]tatus [p]ause [b]ypass [c]heckpoint [q]uit ⇒ s
Session..... hashcat
Status....: Running
Hash.Name....: MD5
Hash.Target.....: hashes.txt
Time.Started....: Wed Feb 28 03:08:41 2024 (9 secs)
Time.Estimated ...: Thu Feb 29 07:15:36 2024 (1 day. 4 hours)
Guess.Base.....: File (/usr/share/wordlists/rockyou.txt), Left Side
Guess.Mod.....: File (./lab4/dicts/small.txt), Right Side
Speed.#1.....: 18395.3 kH/s (7.04ms) @ Accel:128 Loops:512 Thr:1 Vec:8
Recovered...... 7/12 (58.33%) Digests
Progress.....: 167322368/1861886828615 (0.01%)
Rejected..... 0/167322368 (0.00%)
Restore.Point...: 1280/14344385 (0.01%)
Restore.Sub.#1...: Salt:0 Amplifier:4608-5120 Iteration:0-512
Candidates.#1....: cuties113661 → mexico1120730
[s]tatus [p]ause [b]ypass [c]heckpoint [q]uit ⇒ s
                                                       Check the time
Session..... hashcat
Status..... Running
Hash.Name..... MD5
Hash.Target.....: hashes.txt
Time.Started....: Wed Feb 28 03:08:41 2024 (1 min, 3 secs)
Time.Estimated ...: Thu Feb 29 09:58:58 2024 (1 day, 6 hours)
Guess.Base.....: File (/usr/share/wordlists/rockyou.txt), Left Side
Guess.Mod.....: File (./lab4/dicts/small.txt), Right Side
Speed.#1.....: 16771.0 kH/s (6.93ms) @ Accel:128 Loops:512 Thr:1 Vec:8
Recovered...... 8/12 (66.67%) Digests
Progress.....: 1071177728/1861886828615 (0.06%)
Rejected..... 0/1071177728 (0.00%)
Restore.Point....: 8192/14344385 (0.06%)
Restore.Sub.#1...: Salt:0 Amplifier:30720-31232 Iteration:0-512
Candidates.#1....: total90A1308951 → annalynAvenger
[s]tatus [p]ause [b]ypass [c]heckpoint [q]uit ⇒ [
```

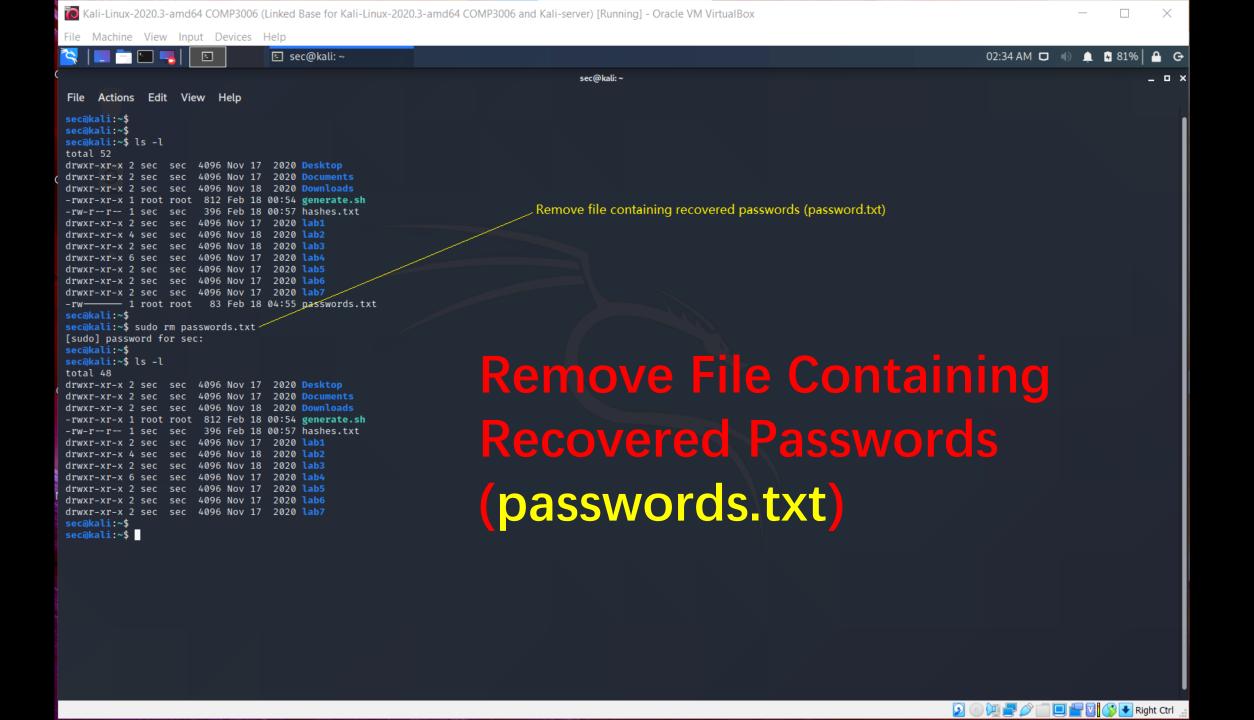
Open a new Terminal Emulator and type "Is -/" to check if the "passwords.txt" is generated

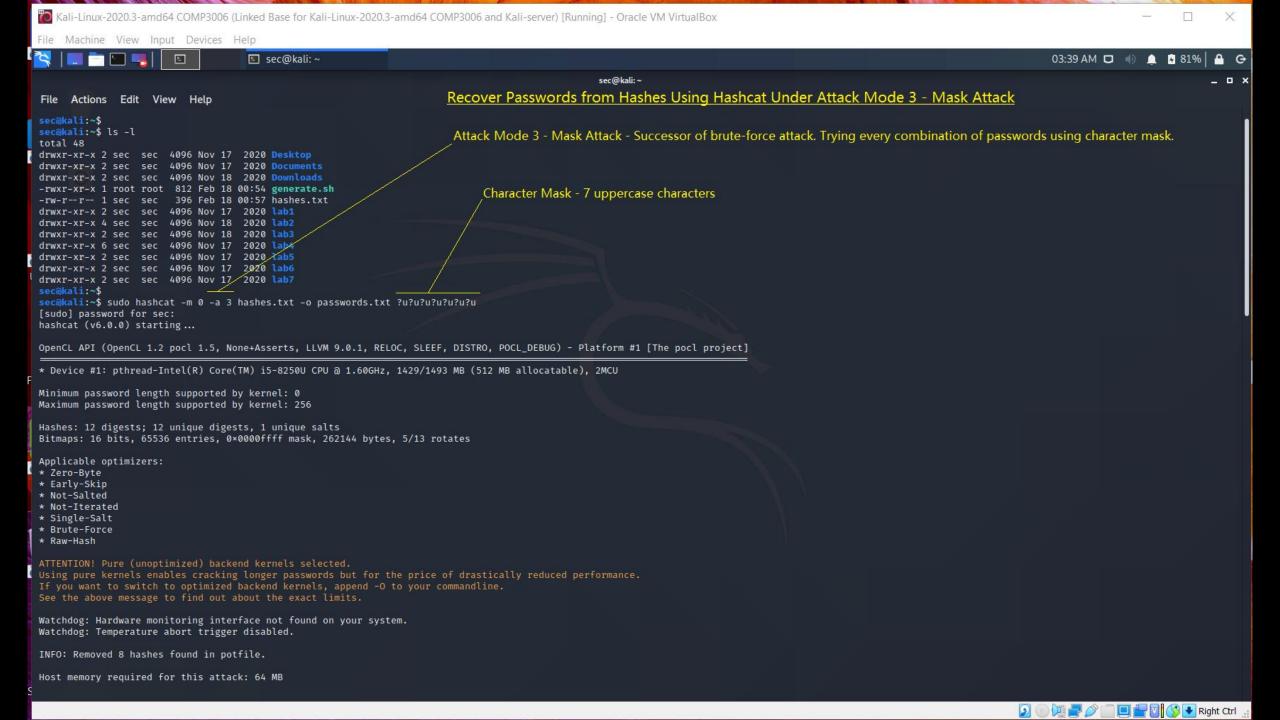
_ = >

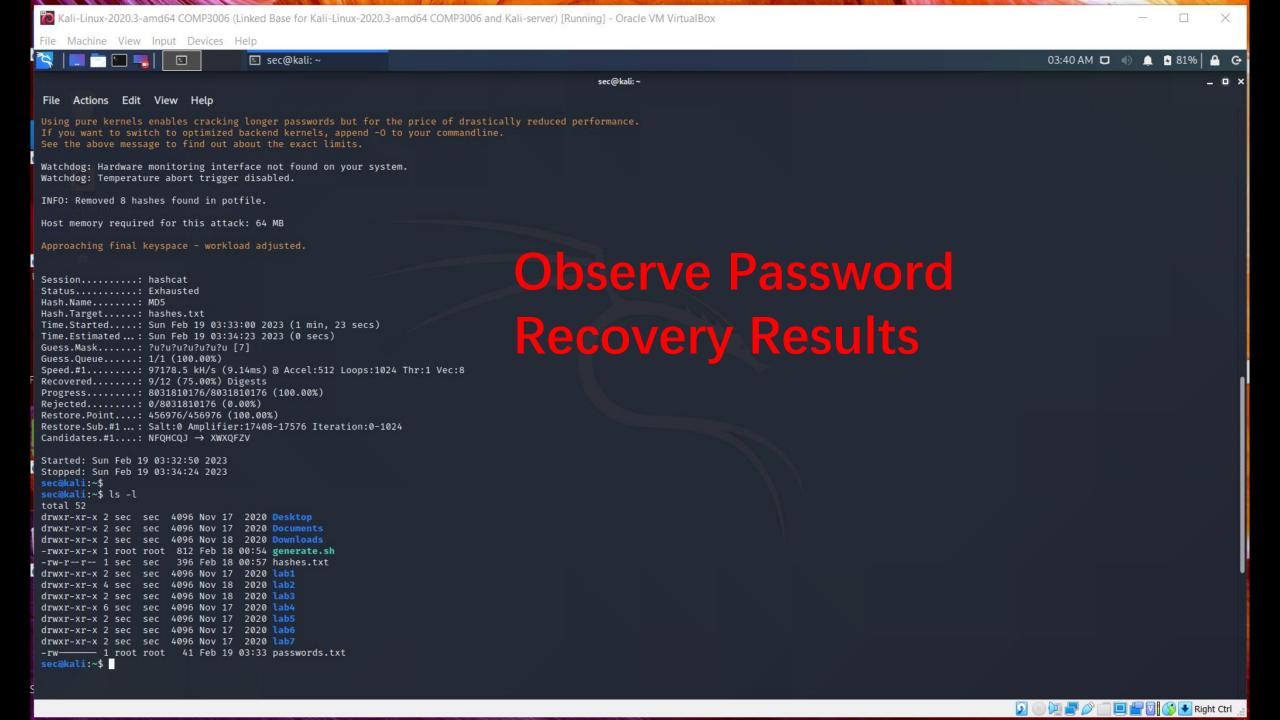
```
sec@kali:~
File Actions Edit View Help
sec@kali:~$ ls -l
total 48
drwxr-xr-x 2 sec sec 4096 Nov 17 2020 Desktop
drwxr-xr-x 2 sec sec 4096 Nov 17 2020 Documents
drwxr-xr-x 2 sec sec 4096 Nov 18 2020 Downloads
-rwxr-xr-x 1 root root 812 Feb 28 03:06 generate.sh
-rw-r-r-- 1 sec sec 396 Feb 28 03:07 hashes.txt
drwxr-xr-x 2 sec sec 4096 Nov 17 2020 lab1
drwxr-xr-x 4 sec sec 4096 Nov 18 2020 lab2
drwxr-xr-x 2 sec sec 4096 Nov 18 2020 lab3
drwxr-xr-x 6 sec sec 4096 Feb 26 22:06 lab4
drwxr-xr-x 2 sec sec 4096 Nov 17 2020 lab5
drwxr-xr-x 2 sec sec 4096 Nov 17 2020 lab6
drwxr-xr-x 2 sec sec 4096 Nov 17 2020 lab7
sec@kali:~$ ls -l
total 48
drwxr-xr-x 2 sec sec 4096 Nov 17 2020 Desktop
drwxr-xr-x 2 sec sec 4096 Nov 17 2020 Documents
drwxr-xr-x 2 sec sec 4096 Nov 18 2020 Downloads
-rwxr-xr-x 1 root root 812 Feb 28 03:06 generate.sh
-rw-r--r-- 1 sec sec 396 Feb 28 03:07 hashes.txt
drwxr-xr-x 2 sec sec 4096 Nov 17 2020 lab1
drwxr-xr-x 4 sec sec 4096 Nov 18 2020 lab2
drwxr-xr-x 2 sec sec 4096 Nov 18 2020 lab3
drwxr-xr-x 6 sec sec 4096 Feb 26 22:06 lab4
drwxr-xr-x 2 sec sec 4096 Nov 17 2020 lab5
drwxr-xr-x 2 sec sec 4096 Nov 17 2020 lab6
drwxr-xr-x 2 sec sec 4096 Nov 17 2020 lab7
sec@kali:~$
```

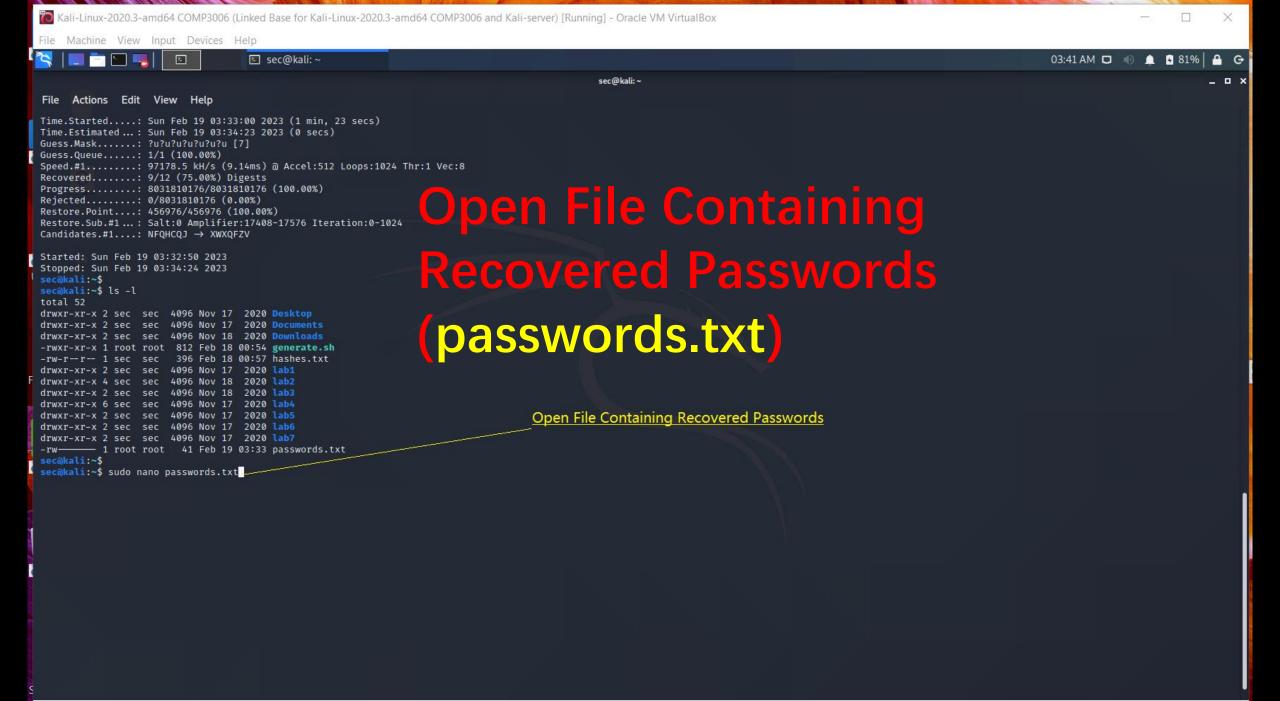


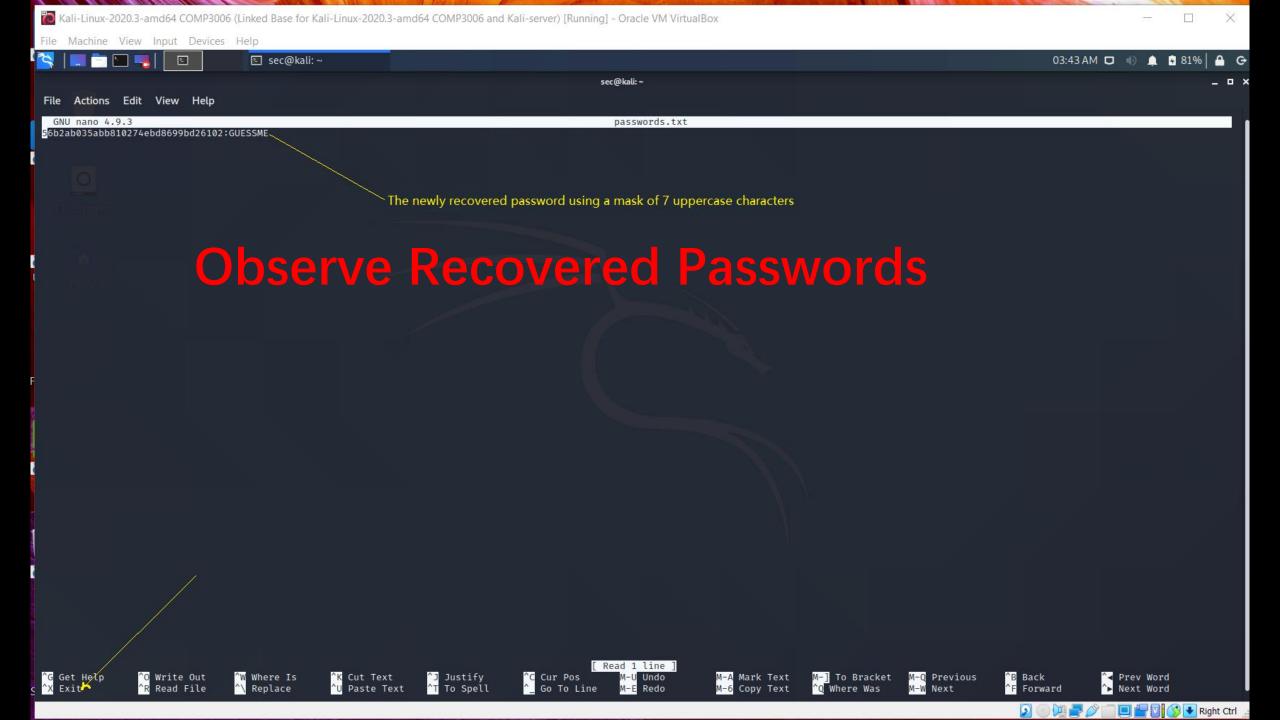


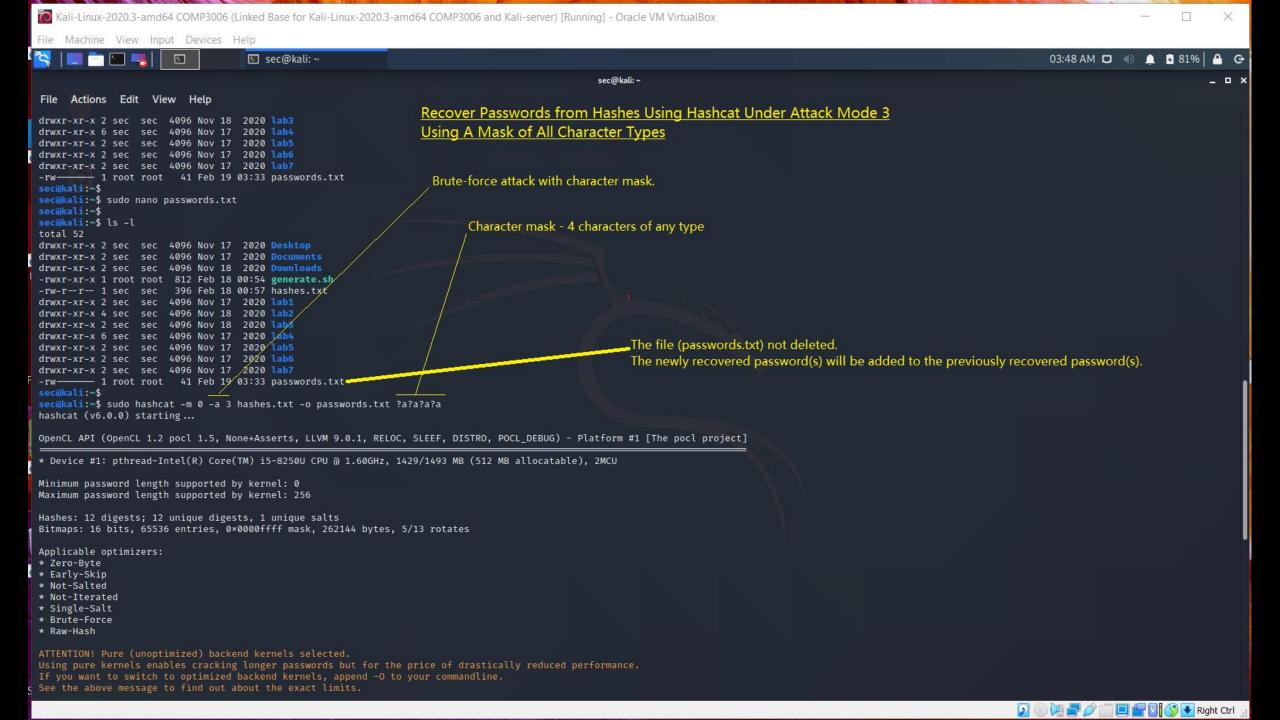


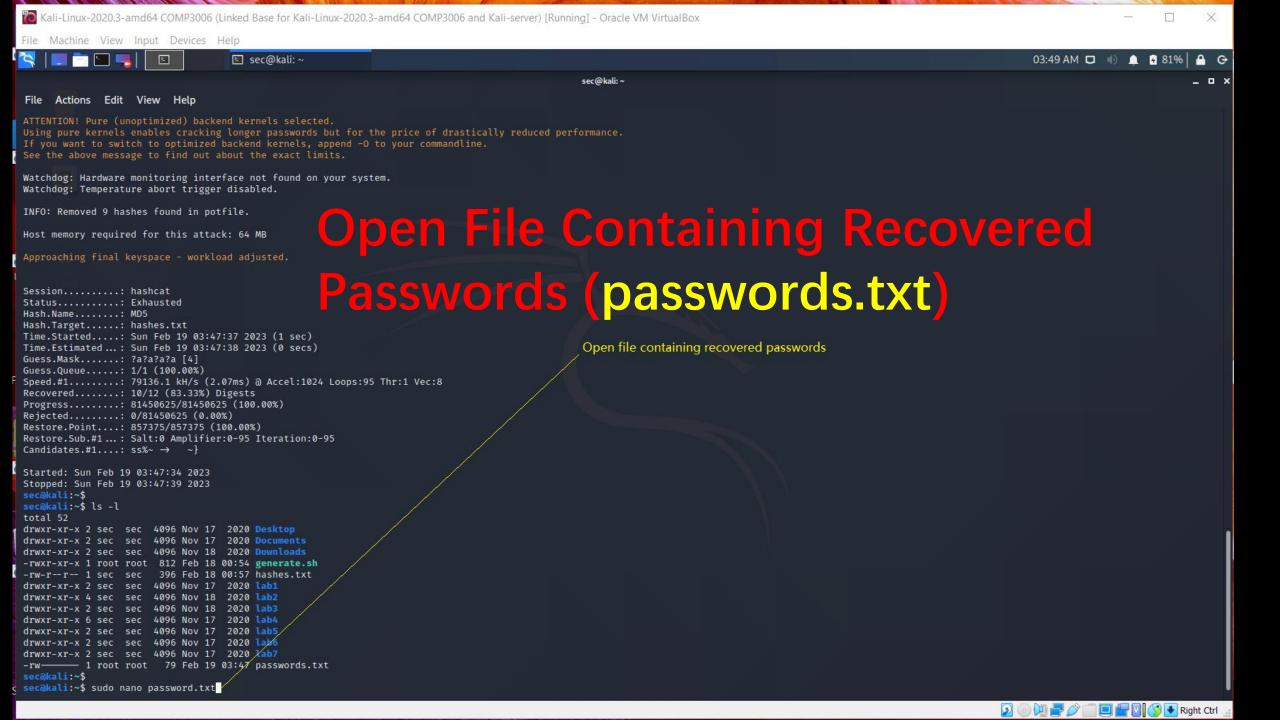


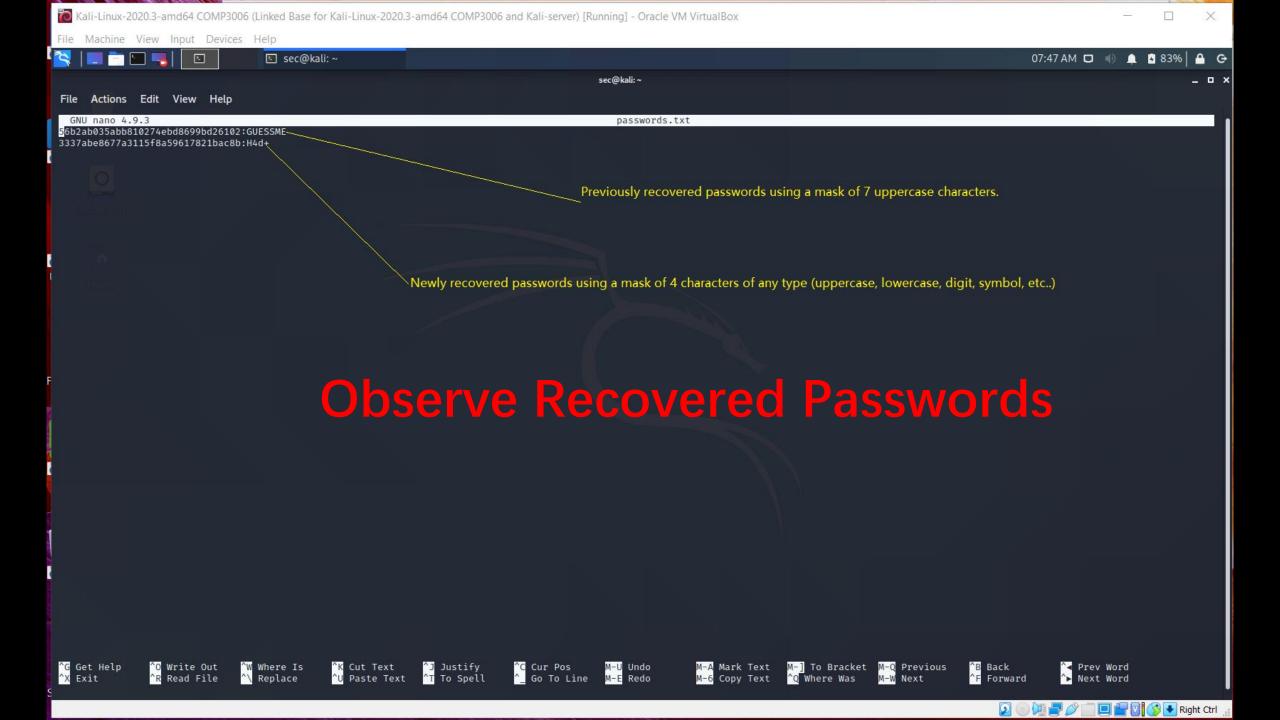












Exercise

Read the document COMP3052.SEC LAB: PASSWORDS prepared by Mike Pound.

Work on the exercises described under the following sections:

Page 6 – HASHCAT

Page 6 – LAB 4 FILES

Page 7 – ALL THE PASSWORDS

Page 9 – GOING IT ALONE