CYBER SECURITY 2021

**P2: ZIP Password**

# **Preparation:**

Installed Kali virtual machine. Login with credential “student – Class2029Room”.

# **Exercise:**

Unzip the rockyou.txt file in */usr/share/wordlists*:

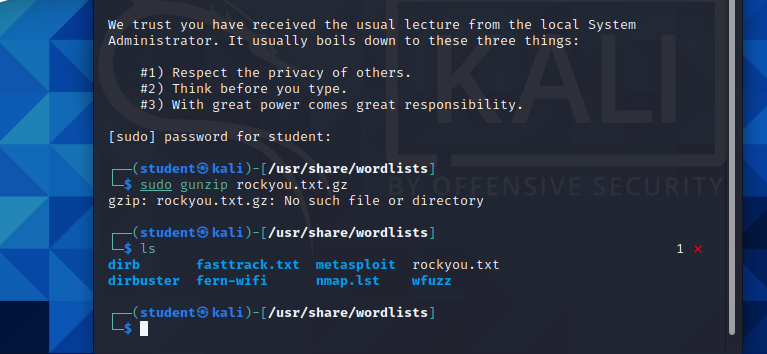


Figure . Unzipped rockyou.txt

I use “wc -l” command to determine the number of passwords: 14344392.

Then I use “grep -w” command to check whether my passwords are in the list or not. Luckily, they are not.

All files to be cracked:

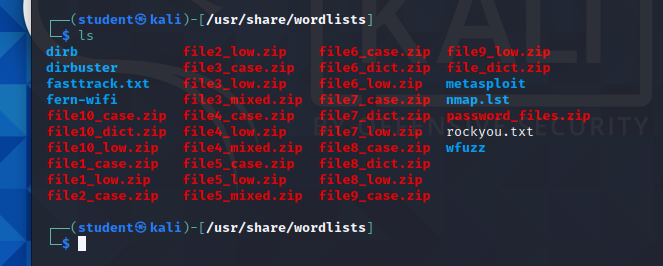


Figure . To be cracked files

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Low** | **Mixed** | **Case** | **Dict** |
| 1 | 0.071s - e |  | 0.092s - I |  |
| 2 | 0.075s - ks |  | 0.093s - So |  |
| 3 | 0.111s - yvp | 0.038s - /Jn | 0.097s - Foo |  |
| 4 | 0.111s - iisi | 1.206s – y&U/ | 0.874s - Loki |  |
| 5 | 0.707s - poiuy | 38.3s - #eDcv | 25.32s - MkoMj |  |
| 6 | 26.83s - yhtake |  | 28m51s - YuiHjk | 0.097s - sister |
| 7 | 10m8s - uniolio |  | 7h29m30s - nJibhuv | 2.87s – NORTON1 |
| 8 | 3h4m58s - poikjhnb |  | 22h43m44s - aSxcvbnm | 1.18s - reemskie |
| 9 | 63h28m50s - mkonjibhu |  |  | 0.49s – lovemeorhateme1 |
| 10 |  |  |  | 0.69s - SLiVeRKuRT |

Commands that I use to crack these zip files:

“time fcrackzip – D -u -p rockyou.txt *filename*” (dictionary)

“time fcrackzip – b -l 1-3 – u -c ‘a’ *filename* ”

“time fcrackzip -b -u -l 5 -c 'aA1!' *filename*”

Etc.

**Exception: The file5\_mixed.zip cannot be found with normal parameter ‘aA!’**

Drawing trend line based on time captured, estimate the time needed to crack longer files:

Graphical user interface, chart

Description automatically generated