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Reflection (Required)

🤔 **Reflection Question #1:** If I had to **explain “password security” in 3 emojis**, they would be...
(Feel free to put other comments about your experience in this unit here, too!)



🛡 **Reflection Question #2:** What factors make a password hash difficult to crack? Does that match with usual “password requirements” for signing up to websites?

In my opinion, passwords of more than 8 characters containing symbols and numbers are the hardest ones to crack. It is not exactly the same as the password requirements for signing up the websites.

🎉 **Shoutouts:** Share appreciation for anyone who helped you out with this project or made your day a little better!

Password Cracking Challenge (Required)

Use the answer boxes below to input your screenshots and example commands for this project. Clarifying notes are optional.

Total Number of Cracked Hashes (Screenshot of output from `john --show CPLeak.txt`)

```
File Actions Edit View Help
rcunanan:anay
rmchugh:itt
asinghania:elsie
tsellers:sly
avigil:ume
nweber:8080
brao:andar
rcote:2254
awilliam:ibn
hmishra:rohan
ppatil:Anna1
zyoung:6644
jdulay:vd
datkinson:rune
jplatt:qwe
jdhillon:1909
nmohd:izzy
mgreenberg:dim
ddrake:ggg
pgutierrez:psy
yhussain:steen
atiwari:Shy

251 password hashes cracked, 749 left

(parallels@kali)-[~/Downloads]
$
```

Notes (Optional):

Sample john commands

Please type or copy-and-paste your commands into the boxes below. You do not need to include screenshots of running the commands.

Command #1: a john command using a different wordlist (not lower.lst)

```
john --wordlist=rockyou.txt CLeak.txt
```

Command #2: a john command using a built-in ruleset

```
john --rules:jumbo --wordlist=rockyou.txt CLeak.txt
```

Command #3: a john command using a custom mask

```
John --mask=?l?!?d?d?d?S --wordlist=rockyou.txt CLeak.txt
```