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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 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?

The factors that make it difficult to hash would be the mix of multiple letters, both capital and lowercase, digits, special symbols, etc. It is also better if the password is big in length so that it takes much more time to crack. This method somewhat matches with the requirements however, those requirements are not as detail-oriented.

 **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`)

```
sspivey:corp
achoy:siska
jblair:taryn
vdoshi:ife
ypatel:1227
scyr:suman
bmaria:jeer
lbelanger:genia
ecarey:elmo
seast:amaya
iraza:grill
spena:slap
asinghania:elsie
tsellers:sly
avigil:ume
khinkle:wizzy
brao:andar
jgodinez:atena
sbutcher:cease
iperera:myass
hmishra:rohan
skhawaja:teeny
jdualay:vd
myork:aVia
datkinson:rune
jplatt:qwe
nmohd:izzy
mgreenberg:dim
mgibbs:kemal
yhussain:steen

250 password hashes cracked, 750 left
codenath@lab0000000:~/unit3$
```

**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 cp_leak.txt &
```

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

```
john --wordlist=rockyou.txt --rules=all cp_leak.txt &
```

**Command #3:** a `john` command using **a custom mask**

```
john --mask=?a?a?a cp_leak.txt &
```

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## Submission Checklist

👉 Check off each of the features you have completed. **You will only be graded on the features you check off.**

### Reflection

- ☒ Reflection Question #1 answered above
- ☒ Reflection Question #2 answered above

### Required Challenge

- ☒ Screenshot of Total Passwords Cracked
  - ☒ 250+ Passwords Cracked
- ☒ Command #1
- ☒ Command #2
- ☒ Command #3

### Stretch Challenge

- ☐ 500+ Passwords Cracked
- ☐ 750+ Passwords Cracked
- ☐ 1000 Passwords Cracked

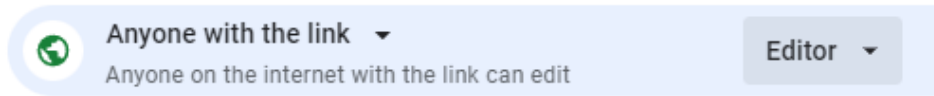
💡 **Tip:** You can see specific grading information, including points breakdown, by going to [the grading page](#) on the course portal. 🔗

**Submit your work!**

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General access



Step 2: **Copy** the link to this document.



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