

CYB101 Project 3

([🔗 Instructions Page](#))

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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!)

Thinking emoji, anger emoji, and bad word emoji

🛡 **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 a password hash difficult to crack would be the amount of characters needed to crack and the type of command used to crack the passwords. It depends if it matches because the passwords I cracked didn't have the special character

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

The slack channel and the study hall playlist

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`)

```
mjohnstone:pung
ypatel:1227
snaz:clau
bmaria:jeer
ecarey:elmo
seast:amaya
iraza:grill
rcunanan:anay
spena:slap
asinghania:elsie
tsellers:sly
nweber:8080
rcote:2254
sbutcher:cease
skhawaja:teeny
zyoung:6644
jdulay:vd
datkinson:rune
jplatt:qwe
jdhillon:1909
nmohd:izzy
mgreenberg:dim
dhaskins:skey
ddrake:ggg
tgandhi:noam
```

```
257 password hashes cracked, 743 left
```

```
codepath@idx-cyb101-idx-1742262055486:~/unit3$ █
```

```
codepath@idx-cyb101-idx-1742262055486:~/unit3$ john --show cp_leak.txt
```

```
phuff:3151
dweir:alice
jcraddock:eider
jlie:3526
kwilkes:cce
lvasquez:Asia
thargrove:prune
yfang:missy
htrand:ace
```

```
hmdaniel:opec
kbraun:1828
dventura:Kara
mrush:chalk
dblackwell:jobo
bmcmillan:jun
sramalingam:1721
ljameson:8910
jmceill:stoop
lcoleman:houri
tmccabe:urban
tsteiner:wage
cmorin:rara
tsaeed:gao
mschaefer:2030
aoliva:mind
atomas:yosh
kjenkins:plod
tzhao:psalm
aherbert:avert
asullivan:manda
cwarren:pew
mmarchand:rill
enelson:dk
jstraub:Dina
rdodd:zombi
lhaynes:1914
flinq:iuno
```

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 --progress-every=10
```

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

```
john --wordlist=rockyou.txt --rules=All --max-length=2 cp_leak.txt
```

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

```
john --mask=?u?1?1?1?1?1?d?d? cp_leak.txt --progress-every=15
```

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.**