Password Hygiene

CUCUG Quentin Barnes July 17, 2025

Yet Another Hack, Google This Time

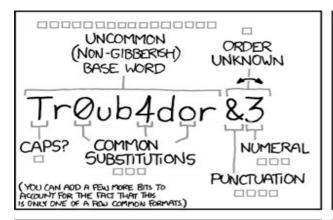
- Was reading our newsletter today
- "Gmail Warning Just Dropped-Reset Your Password ASAP" article
- Today seems like a good day to talk about "password hygiene"

Easy to Remember Passwords

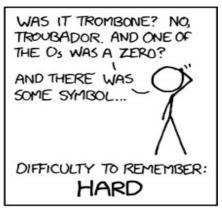
- People make passwords themselves about them themselves
 - Pet's/friend's/relative's name or favorite locations
 - Adding special date strings (MMDD) to a base password
 - Adding a sequence digit to the previous password
 - Slightly modifying password based on site's/product's name
 - Reusing passwords between different services
- Making passwords like these are saying "hack me!"

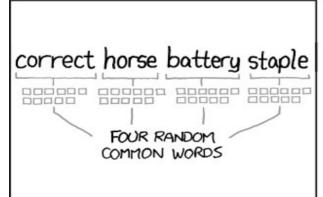
So People Use Random Passwords

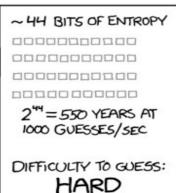
- \$ pwmake 60 blcsUByriz64G
- Now what can you do with that?
- Hard to remember, especially dozens of them!
- Write it down on post it notes?
- Typing it on a phone keyboard is annoying

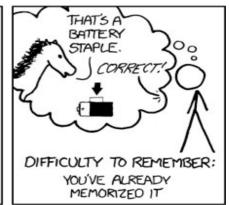












THROUGH 20 YEARS OF EFFORT, WE'VE SUCCESSFULLY TRAINED EVERYONE TO USE PASSWORDS THAT ARE HARD FOR HUMANS TO REMEMBER, BUT EASY FOR COMPUTERS TO GUESS.

Making Password Phrases

- Diceware word list
 - https://theworld.com/~reinhold/dicewarewordlist.pdf
- Real 5d6 dice
- "d20 Calculator" app



Password Phrases

- Ok, so random password phrases good
- But so, so many to make them all unique
- Password managers to the rescue!
 - Only one phrase needed to unlock it

Common Password Managers

- 1Password
- Lastpass
- NordPass
- KeePass
- Proton Pass
- Bitwarden

Bitwarden

- Multi-platform / Cross-platform
 - Browsers, MS Windows, MacOS, Linux, iOS, Android
- Free as in beer (no cost for personal use)
- Free as in freedom (FOSS)
- Multitude of tools
 - Built-in generator for passphrases
 - Easy import / export
- Cloud and self-hosting

Demo!