

moof IT



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Your passwords suck...

What is authentication?

“the process or action of verifying the identity of a user or process”

- the Internet

- Something you know
- Something you have
- Something you are



Whats wrong with passwords?

Hard to guess

Complex

Long

Easy to remember

Whats wrong with passwords?

P @ \$\$\$w0rd

Whats wrong with passwords?

Number of characters ^ length of

passwords numeric + typical range of special characters
 $50^8 = \sim 39 \text{ trillion}$

$\sim 3 \text{ hours}$

Whats wrong with passwords?

123456 password 12345678

qwerty 12345 123456789 letmein

1234567 football iloveyou admin

welcome monkey login abc123

starwars 23123

dragon passw0rd master hello

freedom whatever qazwsx

trustno1

Whats wrong with passwords?

>1 billion
~0.25 seconds

Whats wrong with passwords?

P @ \$\$\$w0rd1 !

Whats wrong with passwords?

horse.stable.gate

Whats wrong with passwords?

range of words ^ number of words used

Oxford English dictionary
words 171,476

$171,476^3 = \sim 5$ Quadrillion

~ 14 days

Whats wrong with passwords?

Likely word $\sim 35,000$

$35,000^3 = \sim 42$ Trillion

~ 3 hours

Whats wrong with passwords?

fir£ew1all.ni~ckel-mut>iny

Thanks

Q & A