



**Practical password
policies**

8 February 2018

The webinar will begin shortly...

Business & Management
20 minute lunch



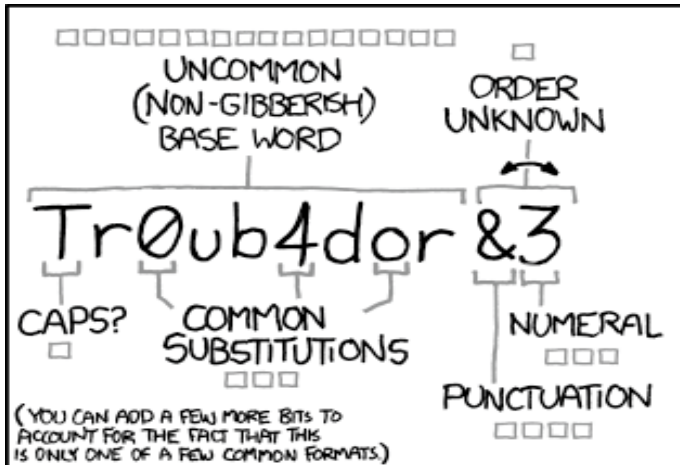
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Today's presenter – Mark Taylor



- IT Faculty, Technical Manager
- Senior Service Delivery Manager, PwC
- IT Manager, Doctor's practice
- FBCS Chartered IT Professional

Pass phrases in place of passwords



~28 BITS OF ENTROPY

$2^{28} = 3 \text{ DAYS AT } 1000 \text{ GUESSES/SEC}$

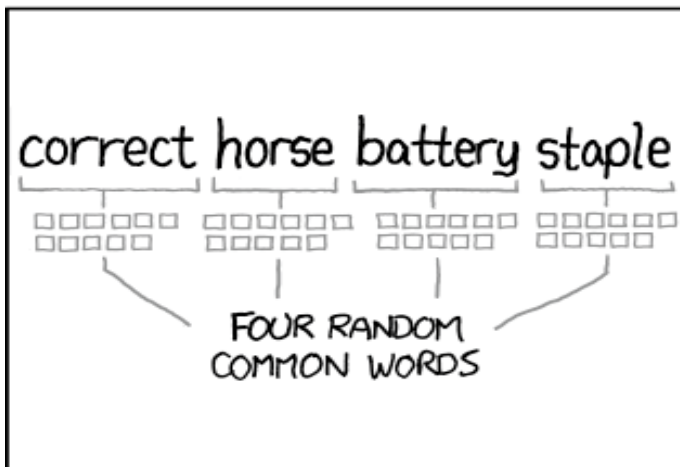
(PLAUSIBLE ATTACK ON A WEAK REMOTE WEB SERVICE. YES, CRACKING A STOLEN HASH IS FASTER, BUT IT'S NOT WHAT THE AVERAGE USER SHOULD WORRY ABOUT.)

DIFFICULTY TO GUESS: **EASY**

WAS IT TROMBONE? NO, TROUBADOR. AND ONE OF THE 0s WAS A ZERO?

AND THERE WAS SOME SYMBOL...

DIFFICULTY TO REMEMBER: **HARD**



~44 BITS OF ENTROPY

$2^{44} = 550 \text{ YEARS AT } 1000 \text{ GUESSES/SEC}$

DIFFICULTY TO GUESS: **HARD**

THAT'S A BATTERY STAPLE.

CORRECT!

DIFFICULTY TO REMEMBER: **YOU'VE ALREADY MEMORIZED IT**

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.

Pass phrases in place of passwords

Pa55w0rd1 is not enough

“Correct Horse Battery
Staple”, change defaults

Impact of complex passwords

NCSC recommend not regularly changing passwords.

Consider the impact on staff of regularly changing passwords.

Password managers

Not a bad thing

Strong password or
biometric to unlock the store

Second factor authentication (2fa)

A user name, password + something else

Use 2FA whenever possible

Least privilege access

Do you really need
access to that data?

Appropriate access for
the task.

Resources

- icaew.com/cyber
- ncsc.gov.uk



Business & Management

Webinar and events - icaew.com/bamevents

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Forecasting without fear

20 February 10am

www.icaew.com/bamfebwebinar

Bribery and corruption update

28 February 12:30

www.icaew.com/lunchfeb2

Excel Stats for business – forecasting and trends

14 March 12:30

www.icaew.com/lunchmar

Free event

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THANK YOU FOR ATTENDING

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