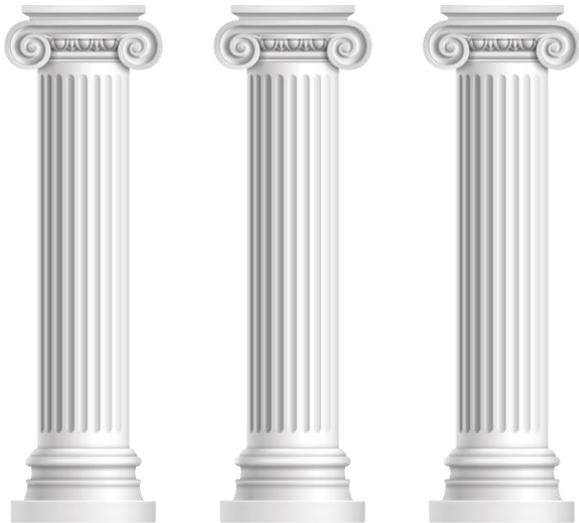


# *Business & Management*



**Practical password  
policies**

**8 February 2018**

The webinar will begin shortly...

*Business & Management*  
*20 minute lunch*



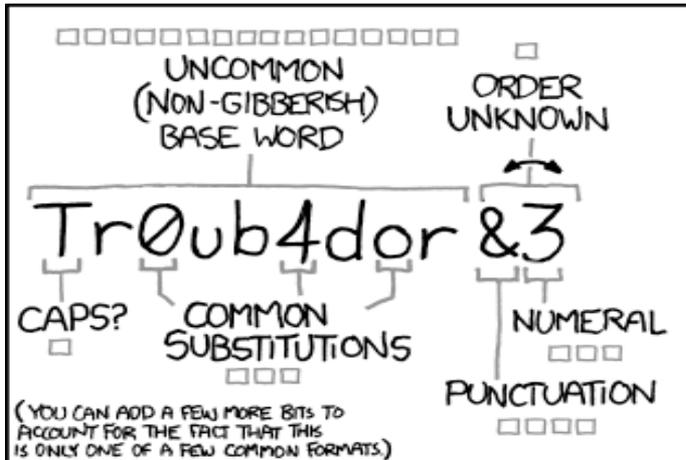
**[corporatepartnerships@moneycorp.com](mailto:corporatepartnerships@moneycorp.com)**

# *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

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

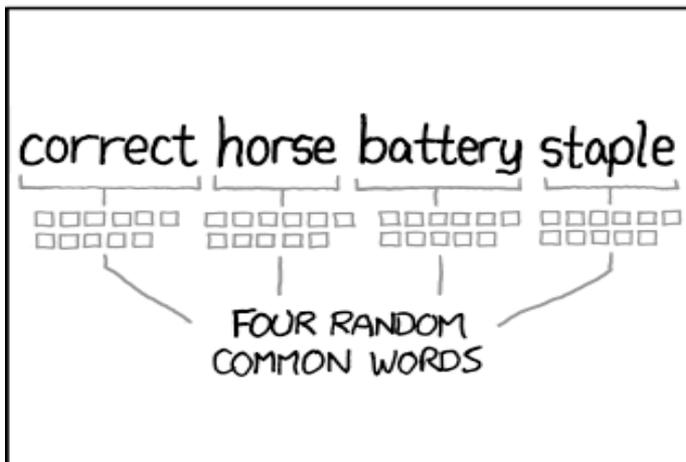
(PLAUSIBLE ATTACK ON A WEAK REMOTE WEB SERVICE. YES, CRACKING A STOLEN HASH IS FASTER, BUT IT'S NOT WHAT THE AVERAGE USER SHOULD WORRY ABOUT.)

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

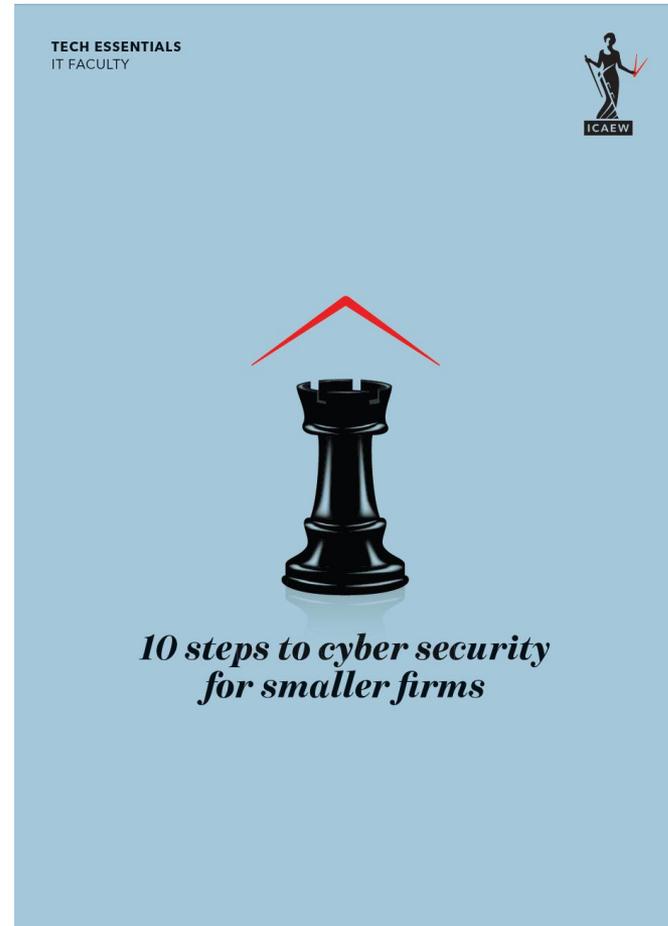
# *Least privilege access*

Do you really need  
access to that data?

Appropriate access for  
the task.

# *Resources*

- [icaew.com/cyber](https://www.icaew.com/cyber)
- [ncsc.gov.uk](https://www.ncsc.gov.uk)



# *Business & Management Webinar and events - [icaew.com/bamevents](http://icaew.com/bamevents)*

## Free webinars

*Forecasting without fear*

20 February 10am

[www.icaew.com/bamfebwebinar](http://www.icaew.com/bamfebwebinar)

*Bribery and corruption update*

28 February 12:30

[www.icaew.com/lunchfeb2](http://www.icaew.com/lunchfeb2)

*Excel Stats for business – forecasting and trends*

14 March 12:30

[www.icaew.com/lunchmar](http://www.icaew.com/lunchmar)

## Free event

*Presenting with confidence*

7 March

[Icaew.com/bammarevent](http://icaew.com/bammarevent)

**View our 2018 webinar and  
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# *Business & Management*

**THANK YOU FOR ATTENDING**

Contact the Business & Management Faculty

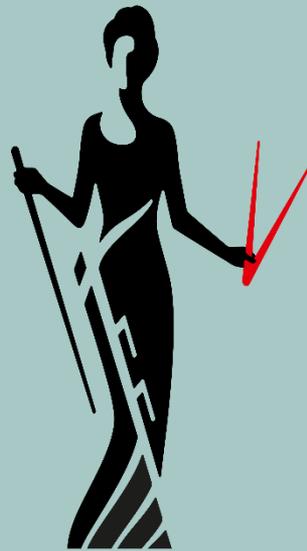
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✉ [bam@icaew.com](mailto:bam@icaew.com) ☎ +44 (0)20 7920 8508

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