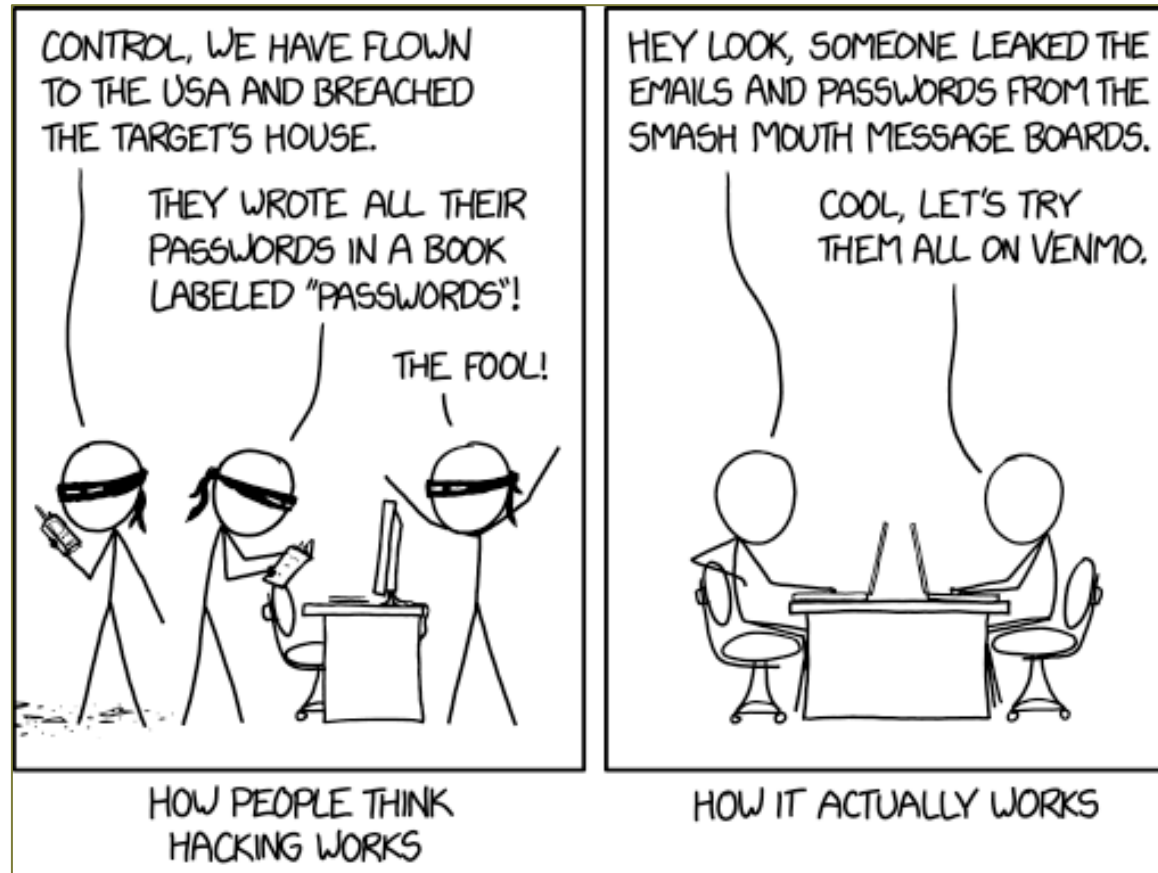




consultancy  
recovery plans  
monitoring  
networks  
support  
backups  
hosting services  
contracts  
projects  
emergencies  
remote support  
technology  
incident response  
work from anywhere  
privacy  
business continuity  
hardware  
help  
microsoft 365  
advice  
prevention  
security  
training  
reassurance  
email  
software  
cloud  
365R  
repairs  
wireless  
reliable  
expertise  
responsive

# How hacking works...



Visit [xkcd.com](http://xkcd.com)

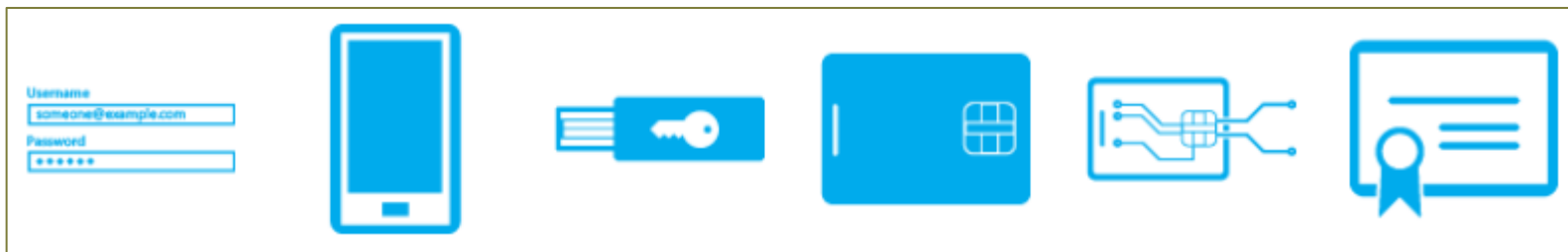
# Multi-factor Authentication



MFA it really matters

# What is it?

- Authentication
- A technical method of proving who you are
- A barrier between you and the bad actors
- Much better than just a password



# The Basics

- Something you **know**
- Something you **have**
- Something you **are**
- Your location
- Time



[Here is an interesting video about Multi-factor Authentication](#)

# Text verification

...we will send a text...

...to your phone

- Not designed for security
- Phones can be cloned
- Easier hack - convince the phone company to help you!



# Authenticator App

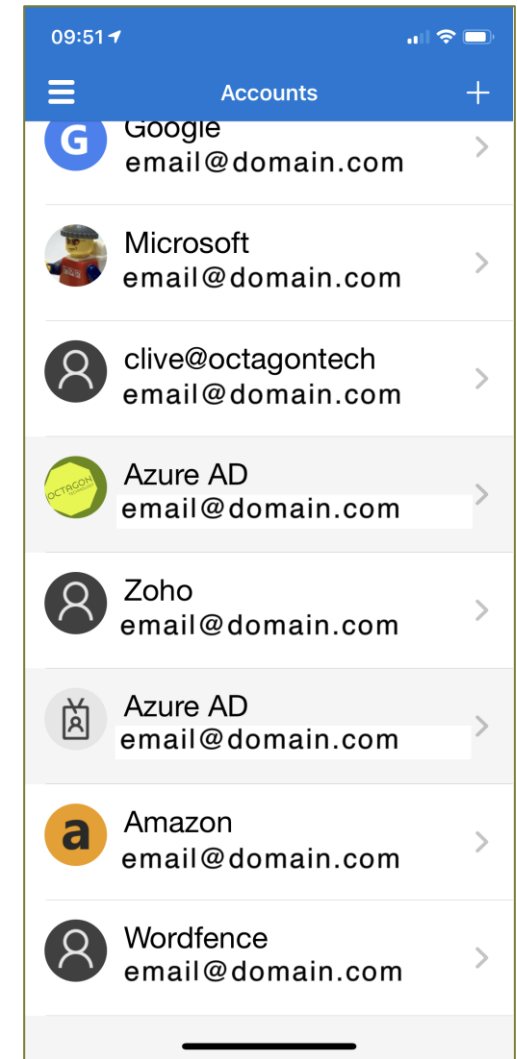
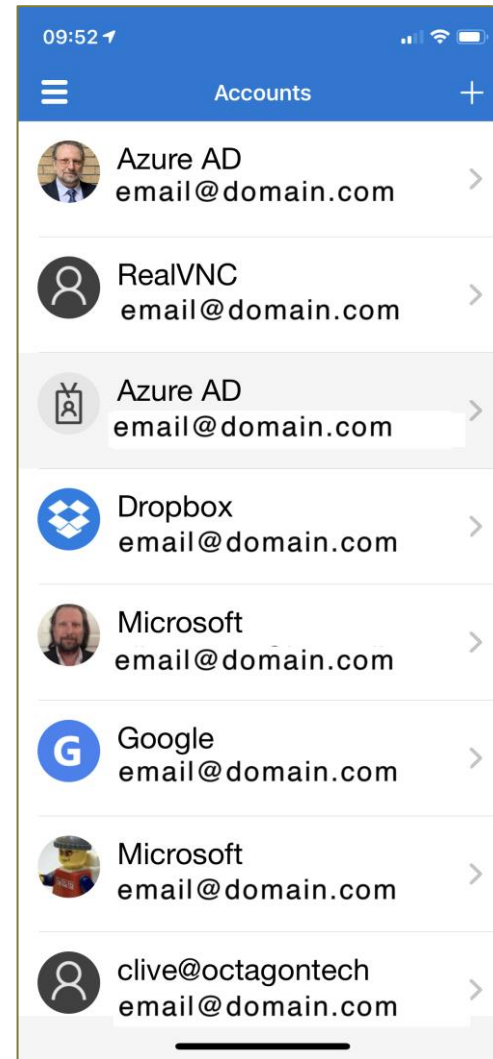
Get it from your app store

- Microsoft
- Google

YOU SET THESE UP - LINKED

TO THE SERVICES DURING

SET UP - SOMETHING YOU HAVE



# What happens - Amazon

OTP =  
ONE TIME PASSWORD

The screenshot shows the Amazon.co.uk Two-Step Verification page. It includes the Amazon logo, the title "Two-Step Verification", and instructions: "For added security, please enter the One Time Password (OTP) generated by your authenticator app". There is a text input field for the OTP, a checkbox labeled "Don't require OTP on this browser", a yellow "Sign In" button, and a link "Didn't receive the OTP?".

BAD  
IDEA →

THE OTP  
IS ONLY  
GOOD FOR  
30 SECONDS

The screenshot shows the "Accounts" section of an iOS app. It displays the Amazon account profile with the email "email@domain.com". Below the profile, it states "One-time passwords enabled" and "You can use the one-time password codes generated by this app to verify your sign-ins". A "One-time password code" is shown as "26 443 713", with the "26" circled in green. At the bottom, there is a "Remove account" option.

WHILST LOGGING IN -  
CHALLENGED TO PROVIDE OTP.

IOS APP - AMAZON  
SECTION - OTP





# What happens - Amazon

- I had to know the username
- I had to know the password
- Even if these were saved in the browser...
- I still had to get the OTP from the linked app/phone
- ... and the app is locked on the phone

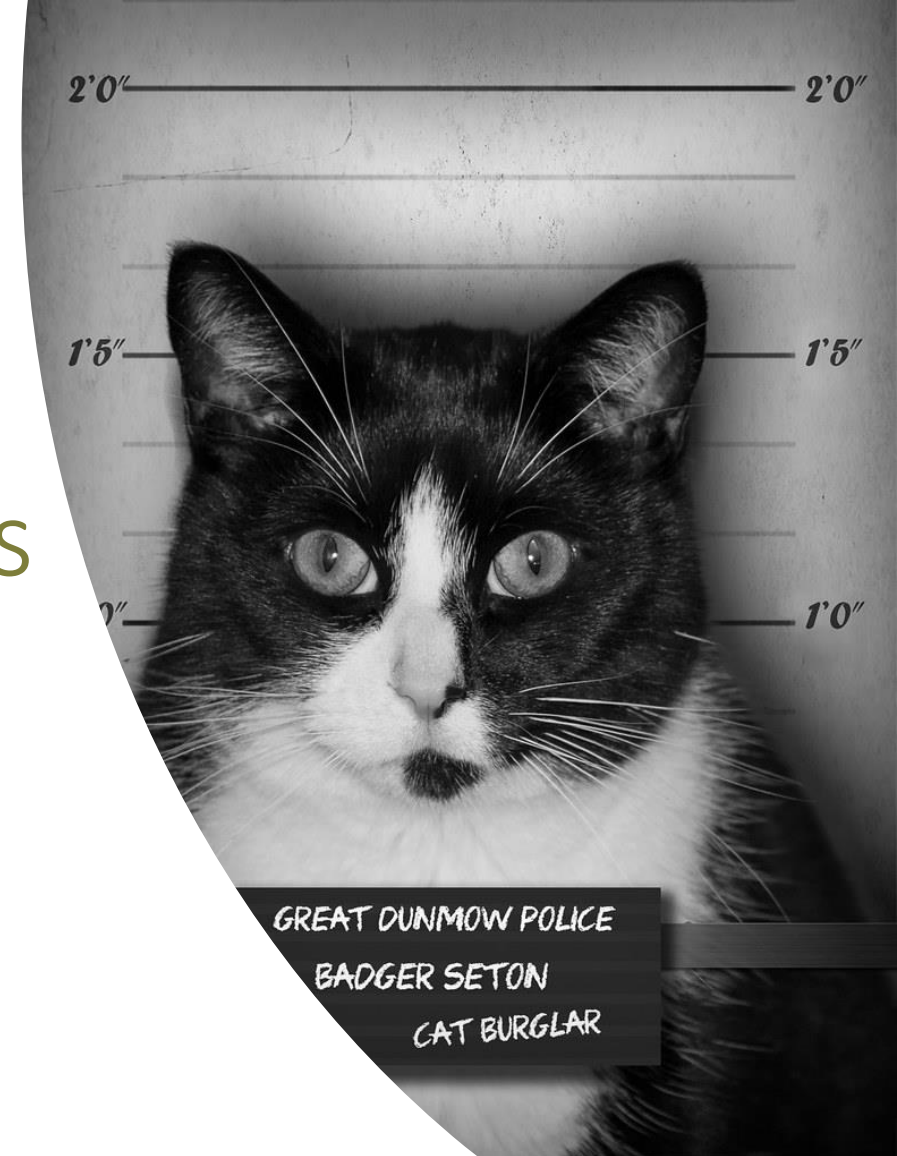
ANOTHER  
BAD IDEA.



Multi-Factor Authentication

# Why MFA is good

- If someone tries to get into any of your protected services the request for the OTP will come to your phone...
- You will know you have a problem
- They cannot get in...



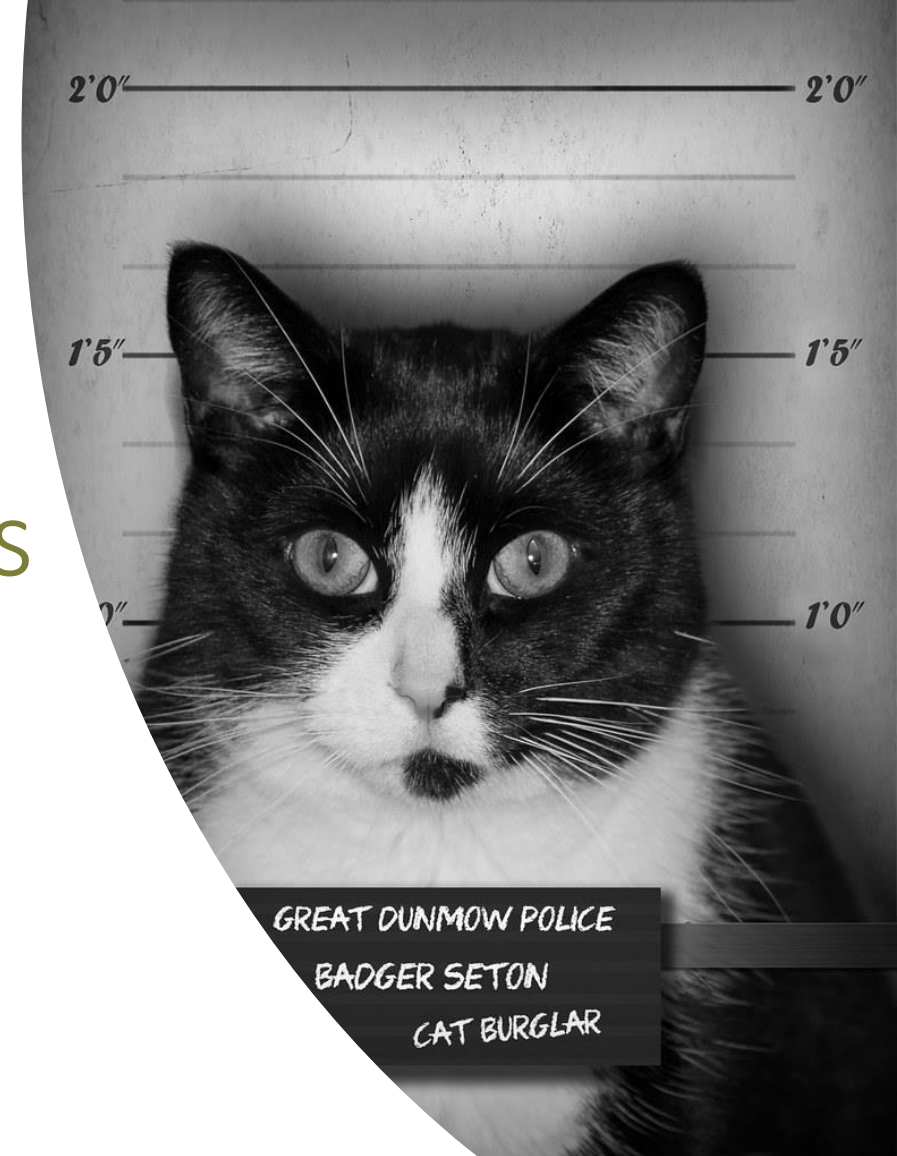
# Why MFA is bad

- It takes time to set up
- The process seems to be different for every service
- You have to have carry your phone
- It takes time to look the number up, copy it, type it, and/or follow the process...



# Why MFA is good

- If someone tries to get into any of your protected services the request for the OTP will come to your phone...
- You will know you have a problem
- They cannot get in...



# Set-up

- QR codes
- The admin has to enable it...
- ...then you set it up
- You will **always** need **valid credentials** to set it up

## Microsoft Authenticator



Scan the QR code

Use the Microsoft Authenticator app to scan the QR code. This will connect the Microsoft Authenticator app with your account.

[Can't scan image?](#)

Back

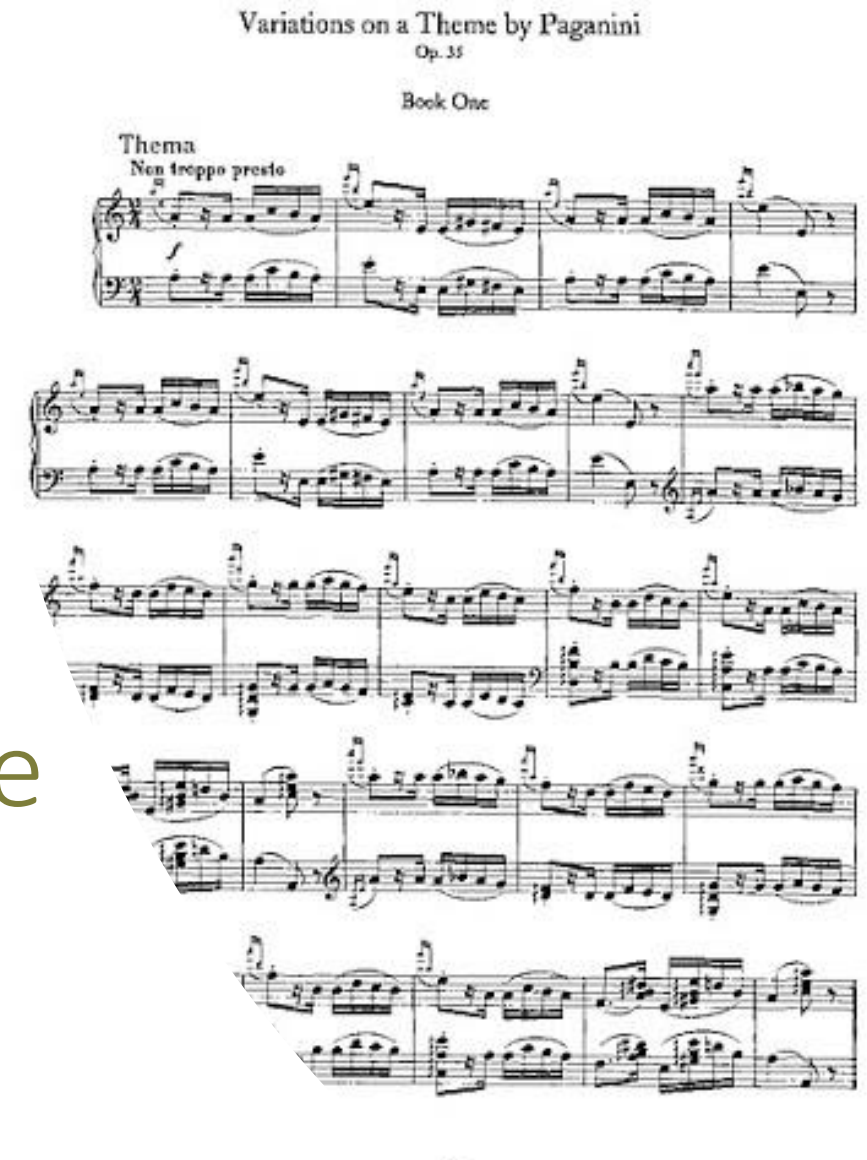
Next

# Variations on a theme

- Sometimes you type in a password you look up in the app
- ...or pick a number from three on phone
- ...or
- ...

Variations on a Theme by Paganini  
Op. 35  
Book One

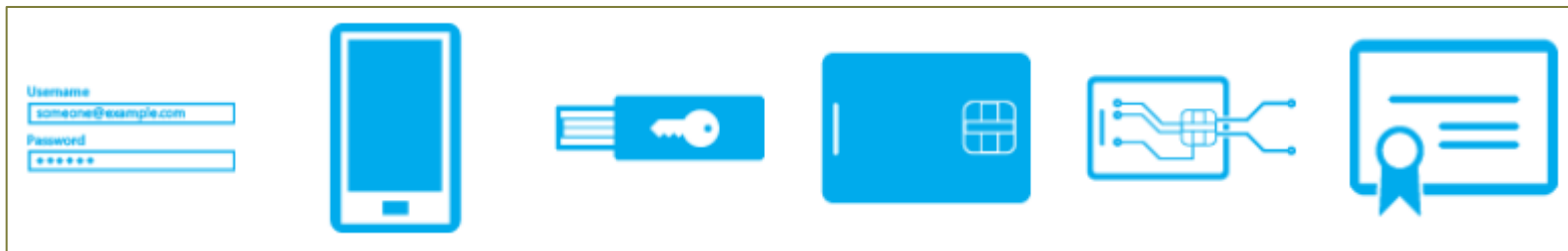
Thema  
Non troppo presto



The image displays a page of musical notation for the 'Thema' from Paganini's 'Variations on a Theme by Paganini, Op. 35, Book One'. The score is written for piano and consists of five systems of music. Each system includes a treble clef staff for the right hand and a bass clef staff for the left hand. The tempo is marked 'Non troppo presto'. The notation is dense and features intricate rhythmic patterns, including sixteenth and thirty-second notes, and various rests. The page is numbered '1' in the bottom right corner.

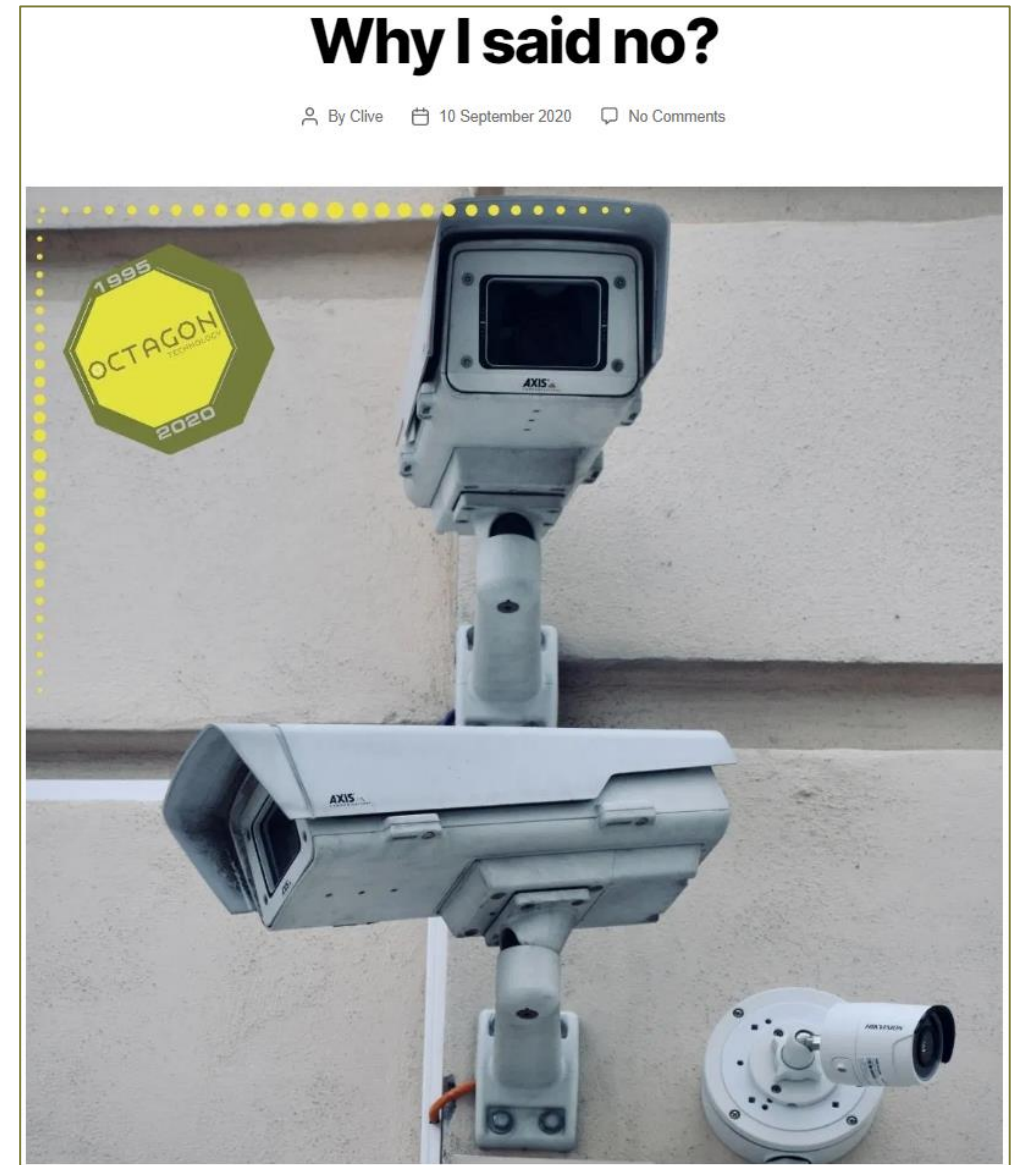
# MFA Checklist

- *Multi-factor verification can help stop malicious hackers from pretending to be you. Even if they have your password, the odds are that they don't have your device, too. (Microsoft)*
- When it is available use it
- If text only verification is available – use that
- Administrators – must use MFA



# Octagon's Blog

- This week – Clive explains why he said no, when asked to give up some privacy for the dates of American Football matches
- New articles every week
- “How to” and advice blogs in the archive
- Check our social media for the latest technology stories



[Octagon's Blog](#)





# Octagon's Social Media

- This week – something new
- Cameron, who joined us at the beginning of September as an apprentice, has produced a video for us.
- Watch it here:  
[Is your password secure?](#)



# Octagon Technology

- IT Support and Training
- Microsoft 365 specialists
- Remote working experts
- Compliance and Documentation
- Governance, Privacy & Security Consultancy
- *Incident Response when you need it 01522 797520*



# Governance, Compliance & Security

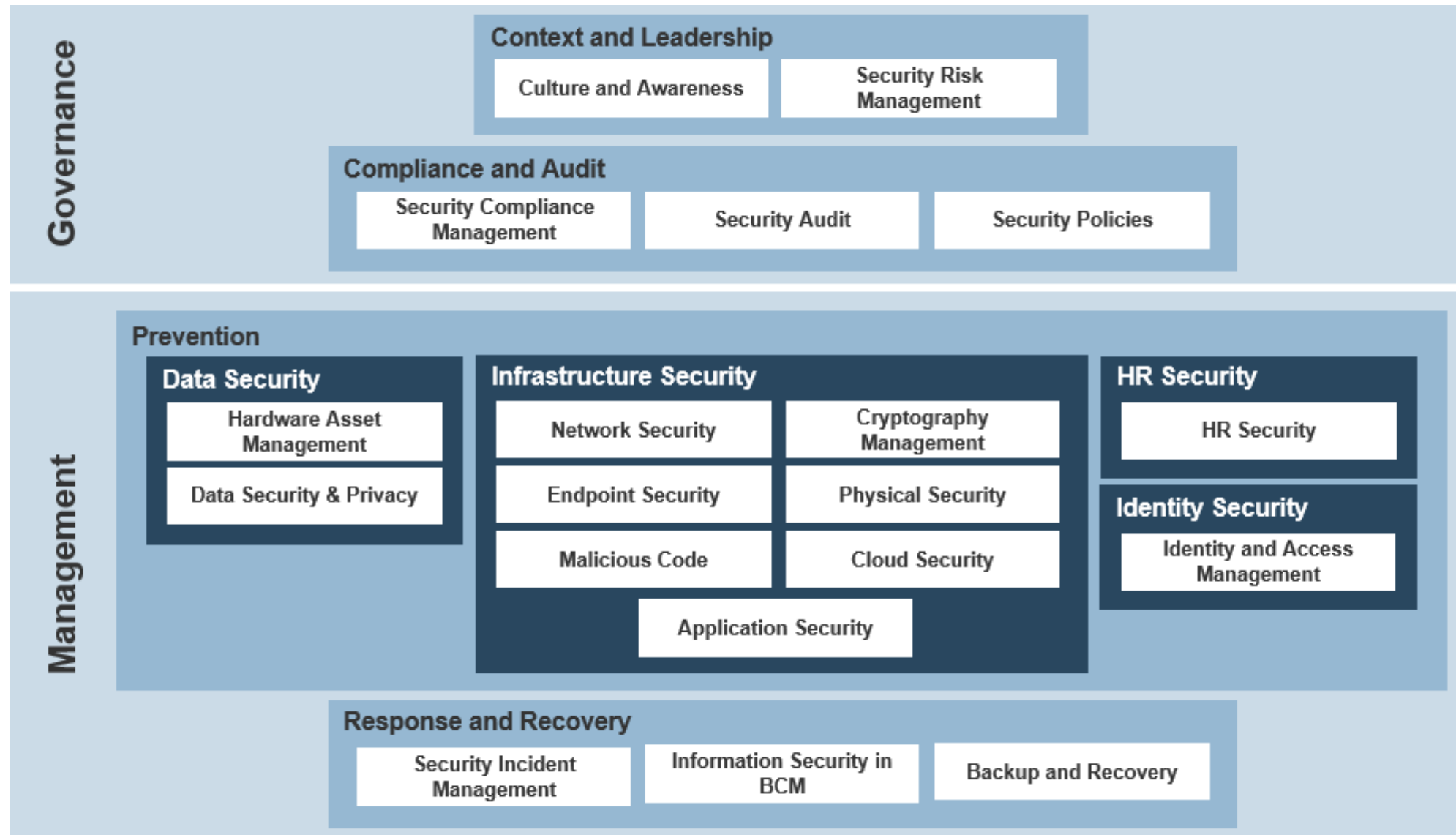
- Systematic solutions to board level issues
- Tried and trusted frameworks
- Access to international experts in the various fields



*Cost effective ways to make Cost reductions*



# Information Security Framework



*An example of one of the frameworks*



consultancy  
recovery plans  
monitoring  
networks  
support  
backups  
hosting services  
contracts  
projects  
emergencies  
remote support  
technology  
incident response  
work from anywhere  
privacy  
business continuity  
hardware  
help  
microsoft 365  
advice  
prevention  
security  
training  
reassurance  
email  
software  
cloud  
365R  
repairs  
wireless  
reliable  
expertise  
responsive