

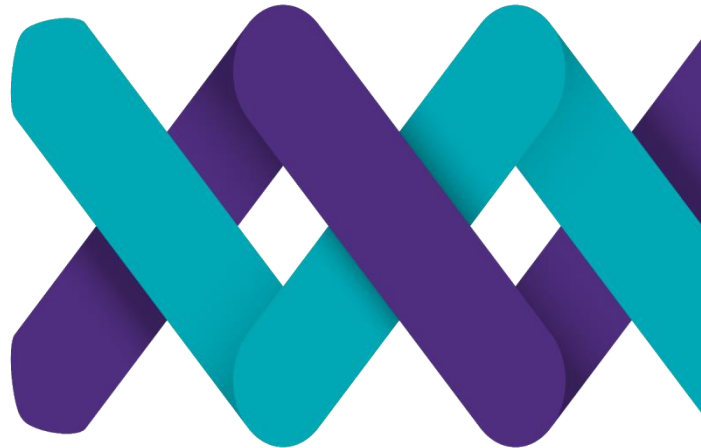


Grant Thornton

An instinct for growth™

Cyber security and cyber resilience

Protecting yourself and your business



THE PROFILE OF A CYBER CRIMINAL

8.1 MILLION
AMERICANS WERE HIT BY
IDENTITY THEFT IN 2010

EVERYONE IS A TARGET

BY 2011 THIS NUMBER HAD
INCREASED 13 PERCENT TO

11.6 MILLION

EVERY DAY OVER
1.5 MILLION
WORLDWIDE
ARE VICTIM TO CYBERCRIME

65% GLOBAL INTERNET
USERS HAVE BEEN
VICTIMS OF CYBERCRIME

73% OF AMERICANS
VICTIMS OF CYBERCRIME
(SURVEY OF 3RD HIGHEST AVG.)

ONLY .0019% OF CYBERCRIMES WERE CONVICTED IN THE US IN 2010

THESE CRIMINALS TEND TO WORK FROM FOREIGN COUNTRIES MAKING THEM DIFFICULT TO IDENTIFY AND HARDER TO CONVICT IF CAUGHT.

WHO ARE THEY?

AGELESS SOCIETY



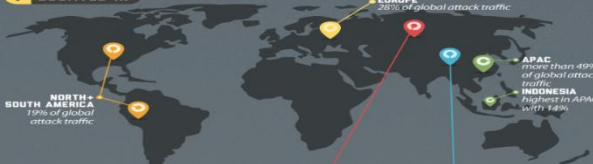
GENDER



WORK IN PACKS



LOCATED IN



HIGHLY ORGANIZED



WE CAN'T STOP THEM FROM ATTEMPTING THEIR CRIMES

BUT WE CAN STOP THEM FROM GETTING OUR IDENTITIES AND PRECIOUS INFORMATION ONLINE

FIGHT BACK

ALWAYS

- IF SOMEONE REQUESTS OF MAKING A PAYMENT ONLINE, ENSURE IT IS A REPUTABLE, SECURE SOURCE.
- THROW YOUR ONLINE CREDIT TRANSACTIONS OF TIER FOR FRAUDULENT ACTIVITY.
- SHARE, DON'T THROW AWAY ANY BANK OR CREDIT CARD STATEMENTS.

CAUTION

- BE CAREFUL OF PROVIDING CREDIT CARD INFORMATION THROUGH EMAIL.
- BE CAUTIOUS WHEN DEALING WITH INDIVIDUALS FROM OUTSIDE YOUR COUNTRY.
- BE CAUTIOUS WHEN MONEY IS REQUIRED UP FRONT FOR ANY JOB LEAD.

NEVER

- NEVER PROVIDE UNKNOWN PROSPECTIVE EMPLOYERS WITH YOUR SOCIAL SECURITY NUMBER.
- NEVER GIVE YOUR CREDIT CARD # OVER THE PHONE UNLESS YOU MADE THE CALL TO A KNOWN BUSINESS.
- NEVER OPEN OR RESPOND TO SPAM EMAILS.



Definition of key terms



Cyber resilience:

'Cyber resilience is a Financial Market Infrastructure's ability to anticipate, withstand, contain and rapidly recover from a cyber attack' **FCA**



Cybersecurity / Cyberspace security:

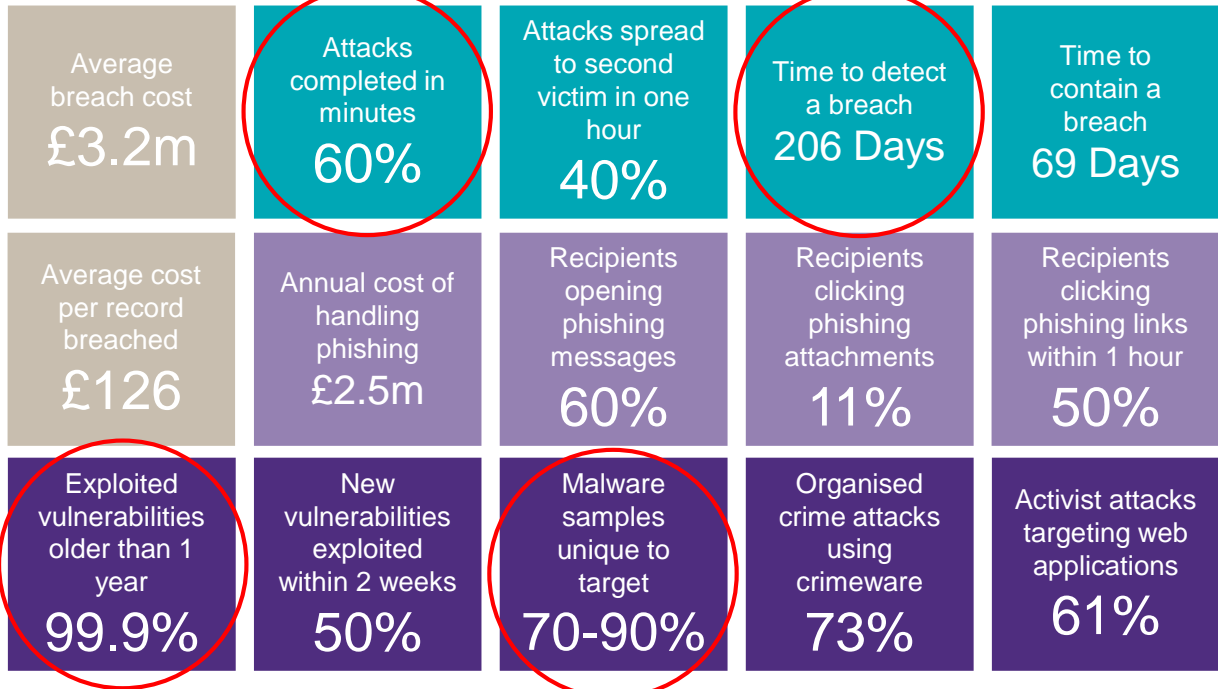
'Preservation of confidentiality, integrity and availability of information in the cyberspace.' **ISO/IEC 27032:2012 Information Technology**



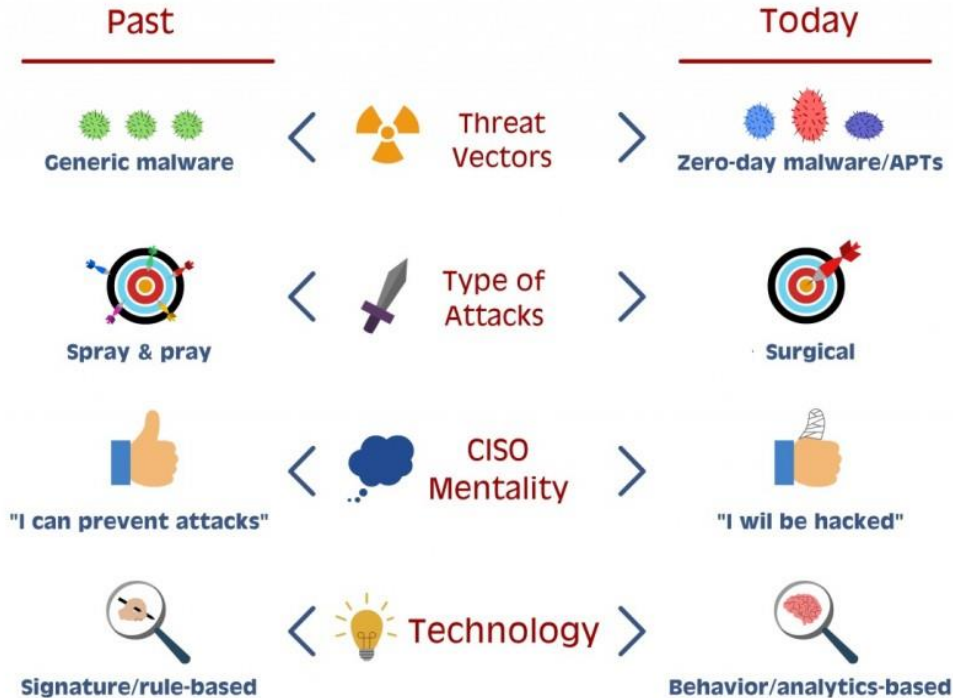
Cyberspace:

'Complex environment resulting from the interaction of people, software and services on the internet by means of technology devices and networks connected to it, which does not exist in any physical form.' **ISO/IEC 27032:2012 Information Technology**

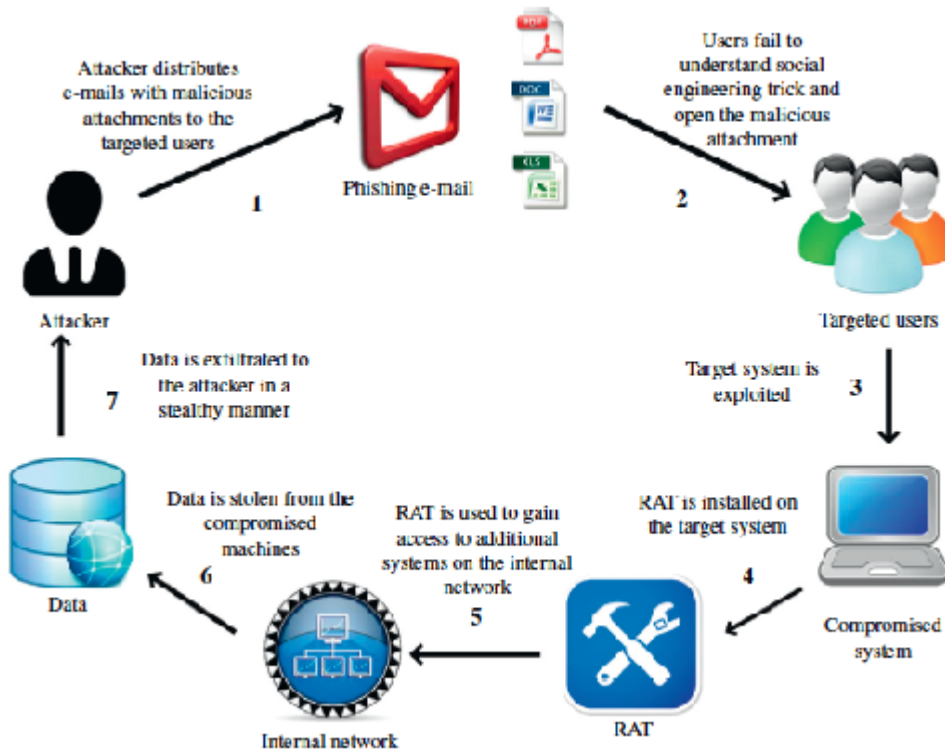
Cyber attacks – Some numbers



Attitude towards cyber is changing



Attack pattern shown in the video



Cyber and the regulatory landscape



- Significant FCA focus via last year's self assessment questionnaire and recent visits to regulated firms with an aim to understand the Financial Service industry's level of resilience to cyber attacks and to inform future supervisory work in this area.
- The FCA expects firms of all sizes to have already established – and continue to develop – a security culture which is 'driven from the top down', including an active Board to the commitment of every employee.
- Material breaches are required to be reported to the FCA (in accordance with Principle 11 of the FCA Handbook). Complying with this requirement and sharing this information via the Cyber Information Sharing Partnership Platform is crucial for 'identifying and tackling patterns of attacks.'
- GDPR requires firms to report material data breaches within 72 hours after detection to the Information Commissioner's Office.
- Significant cybersecurity regulation passed by the NY DFS in 2017 now requires executives of their firms' resilience to cyber attacks.

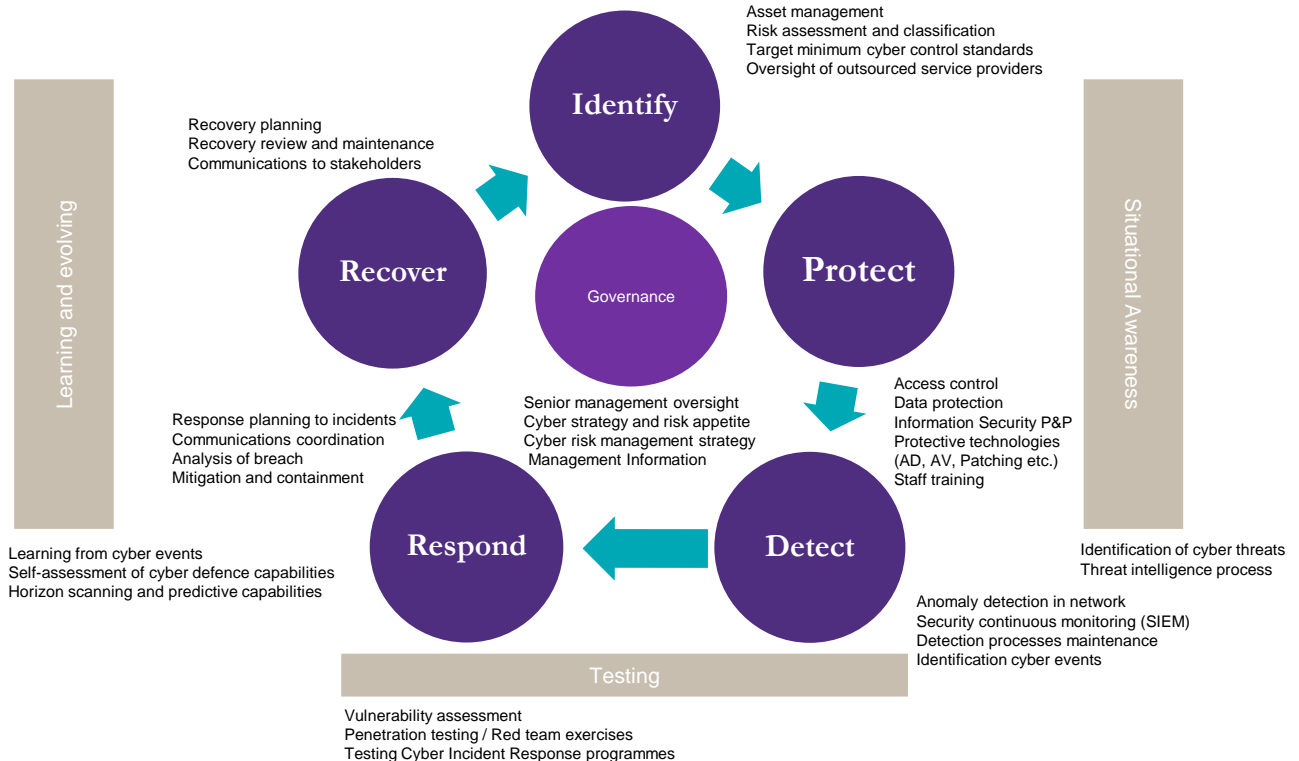
FCA guidance on reporting a cyber incident

Under Principle 11 of the FCA Handbook, you must report material cyber incidents.

An incident **may be material** if it:

- results in **significant loss of data**, or the availability or control of your IT systems
- **affects a large number** of customers
- results in **unauthorised access** to, or malicious software present on, your information and communication systems

The evolving regulatory landscape



How can we help...

Perform **Cyber health check** to help you with a high level assessment of your cyber security strengths and weaknesses, prioritise relevant risk areas and benchmark against peer organisations.

Cyber resilience review/audit to help you understand the effectiveness of your controls over cyber risk.

Vulnerability and penetration testing in which we test the state of specific internal and external cyber defences.

Phishing training in which we test your staff susceptibility to click on links or documents





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