GUARDSIGHT

https://www.guardsight.com/

GuardSight is an established provider of comprehensive cybersecurity threat detection and response, risk assessments, and professional cybersecurity services since 2009.

"We fight bad guys on the internet!"



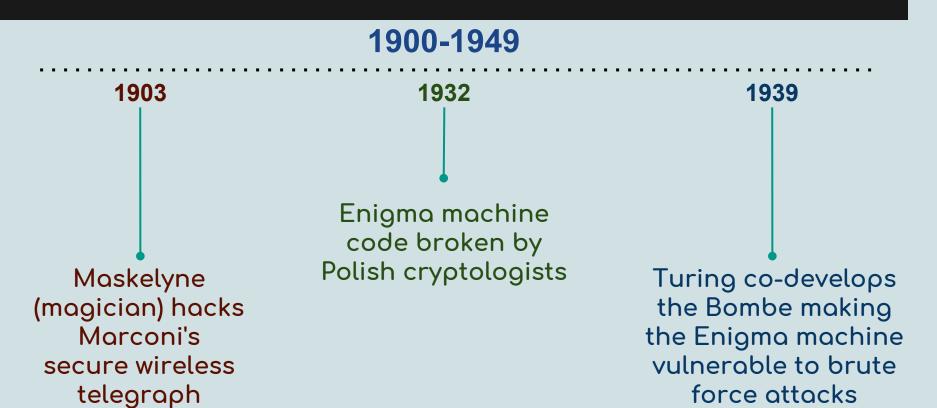
John McGloughlin, CISSP Founder & CEO GuardSight, Inc. johnmac@guardsight.com

CYBERSECURITY: FOR THE INDIVIDUAL

(my pgp key) → http://pgp.mit.edu johnmac@guardsight.com | https://www.linkedin.com/in/mcgloughlin ← (about me)

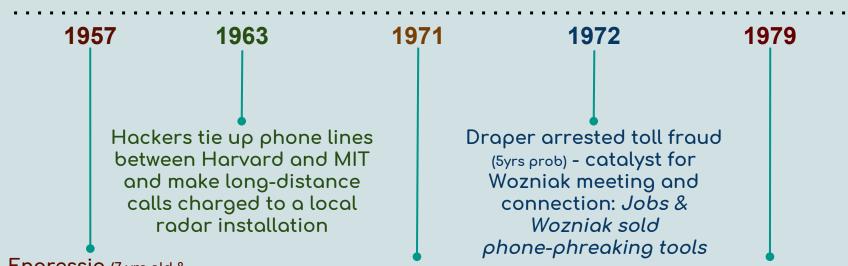
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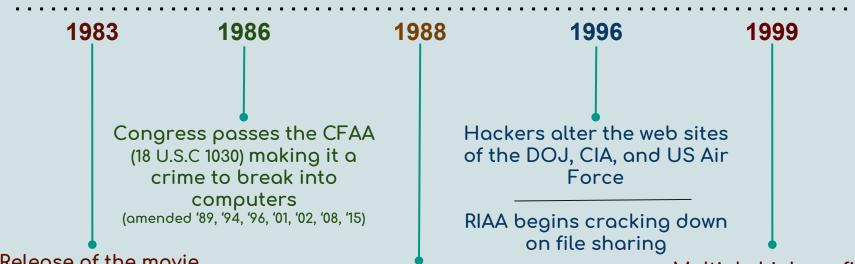
Engressia (7 yrs old & blind) discovers that whistling the fourth E > middle C interferes with AT&T's telephone systems (phreaking)

Rosenbaum of Esquire
magazine publishes "Secrets
of the Little Blue Box"
relies on accounts from
Draper (Captain Crunch) and
a toy whistle

Mitnick (16 yrs old) posing as Chernoff (DEC developer) breaks into the DEC ARK system used to develop the RSTS/E OS







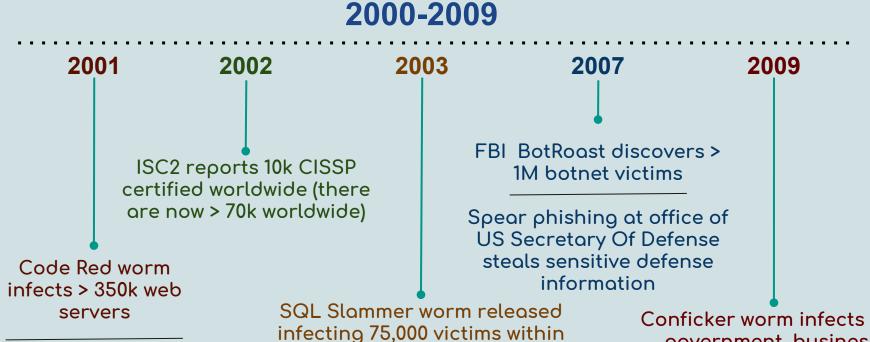
Release of the movie WarGames introduces the wider public to hacking

Morris introduces a worm that alters 6k ARPANET computers (booted from Cornell - 1st convicted of violating CFAA)

CERT created by DARPA

Multiple high profile malware impacts millions of computers and causes > \$100M in damages (Melissa, Chernobyl, Bubble Boy)





Sklyarov arrested at DEF CON - 1st charged w/violating DMCA

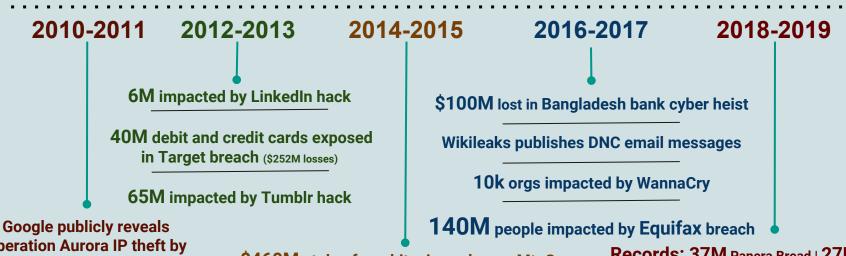
Hacktivist group Anonymous is formed

10 minutes

Conficker worm infects 15M government, business, home computers in over 180 countries







Operation Aurora IP theft by Chinese APT group

Stuxnet disables Iranian nuclear facilities

77M accounts impacted from hack of Sony's **PlayStation network**

\$460M stolen from bitcoin exchange Mt. Gox

21.5M Americans impacted by attack on US OPM

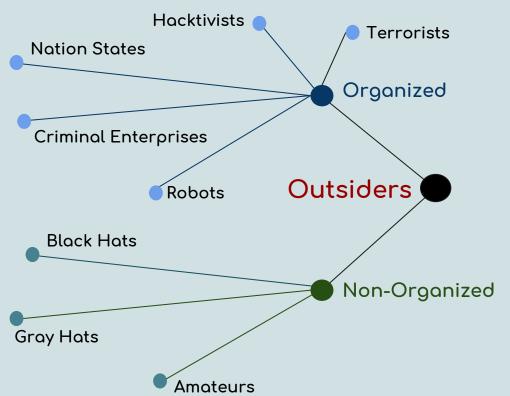
Ashley Madison extramarital affair website hacked

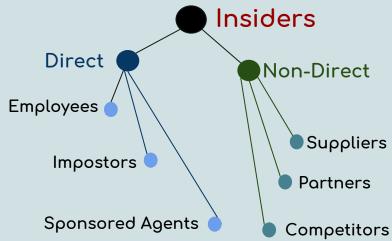
Ukraine power grid hacked (SCADA ICS)

Records: 37M Panera Bread | 27M Ticketfly | 87M Facebook | 150M Under Armour | 340M Exactis | 2M T-Mobile | 100M Quora | 380k Brittish Airways | 40k Ticketmaster | 700k Atrium Health | 1.2M UnityPoint Health | 80k Orbitz |

1.5M SingHealth | 5M Saks, Lord & Taylor

CYBERSECURITY: THREAT ACTOR ATTRIBUTION







CYBERSECURITY: THREAT ACTOR INTENT

Identity Resources (Impersonate) Motives & Objectives - Profit PHI Wealth Credentials Intellectual Resources (Dominate) Prestige Brand - Assets Property - Warfare Knowledge - Defense Physical Resources (*Perpetuate*) Espionage Energy Strength Mobilization Persistence Ideal[ogy | ism] Logical Resources (*Violate*) - Elimination Speech **Extortion** Reputation Communication Destruction



CYBERSECURITY: BLACK MARKET LOOT (US BASED)

ONLINE BANKING CREDENTIALS

\$2k-\$20k+ Balance

\$100 - \$1,000+

ATM CARD WITH BALANCE & PIN

\$2k-\$10k+ Balance

\$500 - \$1,000+

CREDIT CARD NUMBER "Fullz"

Major Cards

\$7 - \$50

SOCIAL MEDIA ACCOUNT ACCESS

1k-10k Accounts

\$15 - \$60

PERSONALLY IDENTIFIABLE INFORMATION

SSN, DOB, Histories

\$40 - \$200

PERSONALLY IDENTIFIABLE INFORMATION

Bundle (DL, Green Card, Visa, Passport, Insurance)

\$2000-\$3000

AIRLINE REWARDS POINTS ACCESS

50k-150k Miles

\$100 - \$200

HOTEL REWARDS POINTS ACCESS

50k-150k Points

\$75 - \$140

1.4 BILLION

US \$\$ LOSSES EXCEEDED IN 2017

230 THOUSAND

NEW MALWARE VARIANTS
DETECTED EVERY DAY

24 THOUSAND

MALICIOUS MOBILE APPS BLOCKED EVERY DAY

66 PERCENT

MALWARE INSTALLED USING EMAIL ATTACHMENTS



CYBERSECURITY: PROTECT YOUR ASSETS







- → Reduce the attack surface
 - Own your assets & data
 - ♦ Inventory your assets & data
 - ◆ Prune apps not being used often
 - ◆ Prune accounts not being used often
 - ◆ Prune upload / download residue
 - Unplug it when you're not using it
 - Always on location services != friendly
 - Beware of the "benevolent"
 - ◆ READ the "Terms of Service"
 - ♦ You are the product when it is FREE
 - **♦** FREE == alternative arrangement
- → Apply real world protection strategies to your online persona[s]
- → Think layered defense-in-depth
- → If you think something is suspicious and could cause you harm that's your limbic system talking listen to it!
- → Be the CEO of your assets and fight to protect them!

- → Use multifactor authentication
- → Avoid using the same passphrase for multiple services
- → Use a pass-[word|phrase] manager
- → Update hardware & software regularly
- Use automated security patching
- Use anti-virus / endpoint protection software
- → Routinely backup critical assets
- → Use content-filtering / white-listing / ad-blocking
- → Avoid opening email from unknown senders
- Avoid opening attachments from unknown senders
- → Avoid opening attachments from senders that do not normally send attachments
- Refrain from accessing sensitive online accounts when using public Wifl networks
- → Use available alerting from online services

