

Andreas Sfakianakis Cyber Threat Intelligence Professional



WHO AM I

Proud <u>CEID</u> and <u>CSD</u> Alumni

CTI in Financial, Energy, and Technology sectors

SANS, ENISA, FIRST.org, European Commission

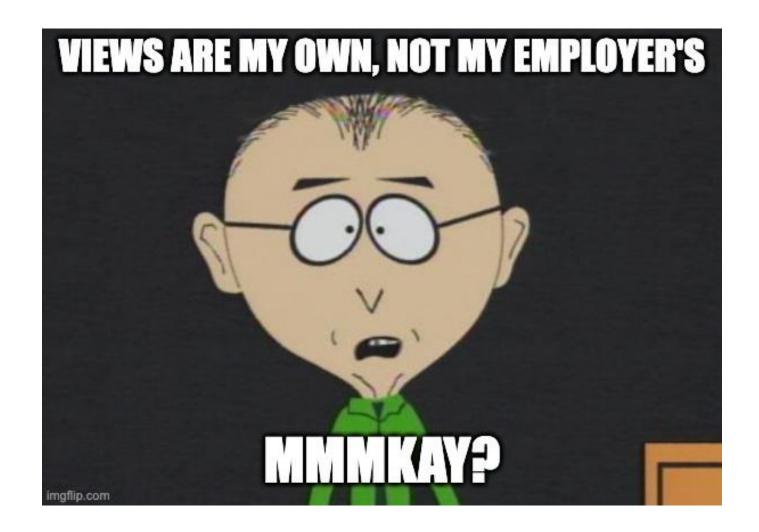
■ Twitter: @asfakian

Website: www.threatintel.eu





DISCLAIMER





OUTLINE



Anatomy of Cyber Threats

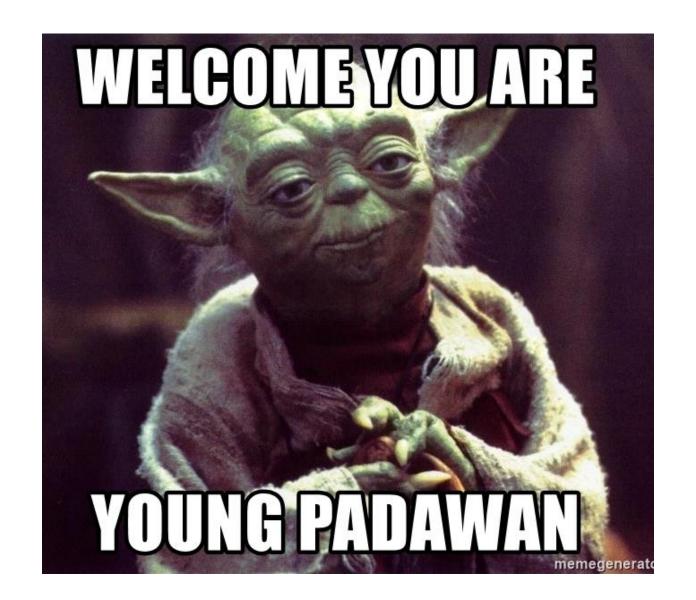


The Corporate Cyber Shield



Building the Cyber Defenders







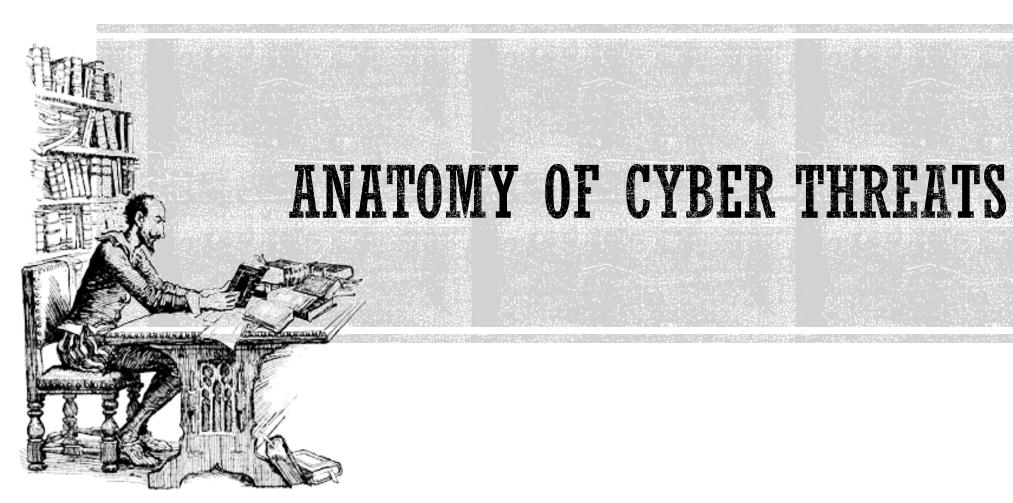
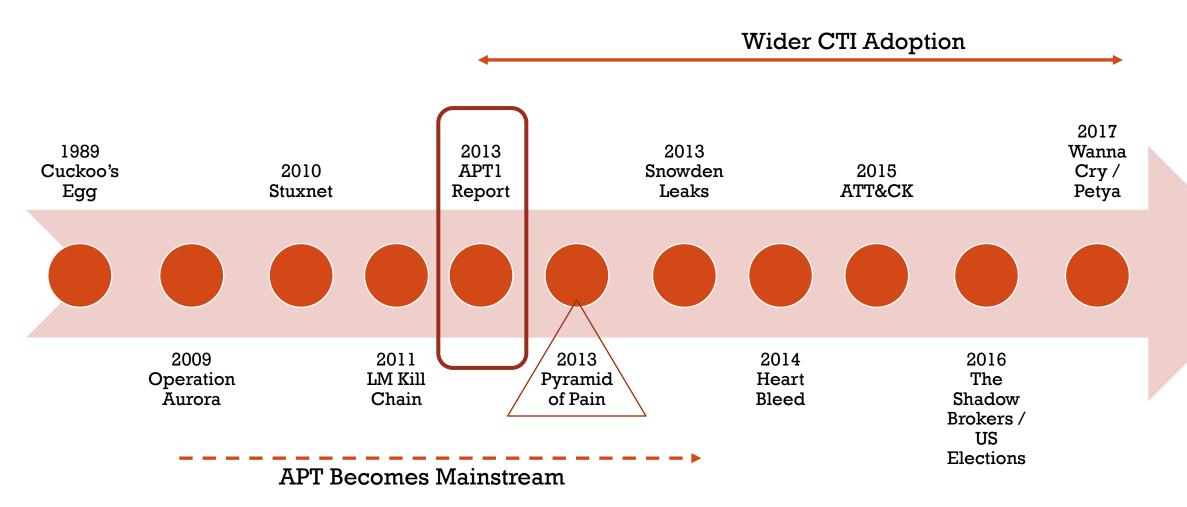




Image from bestofspain.es

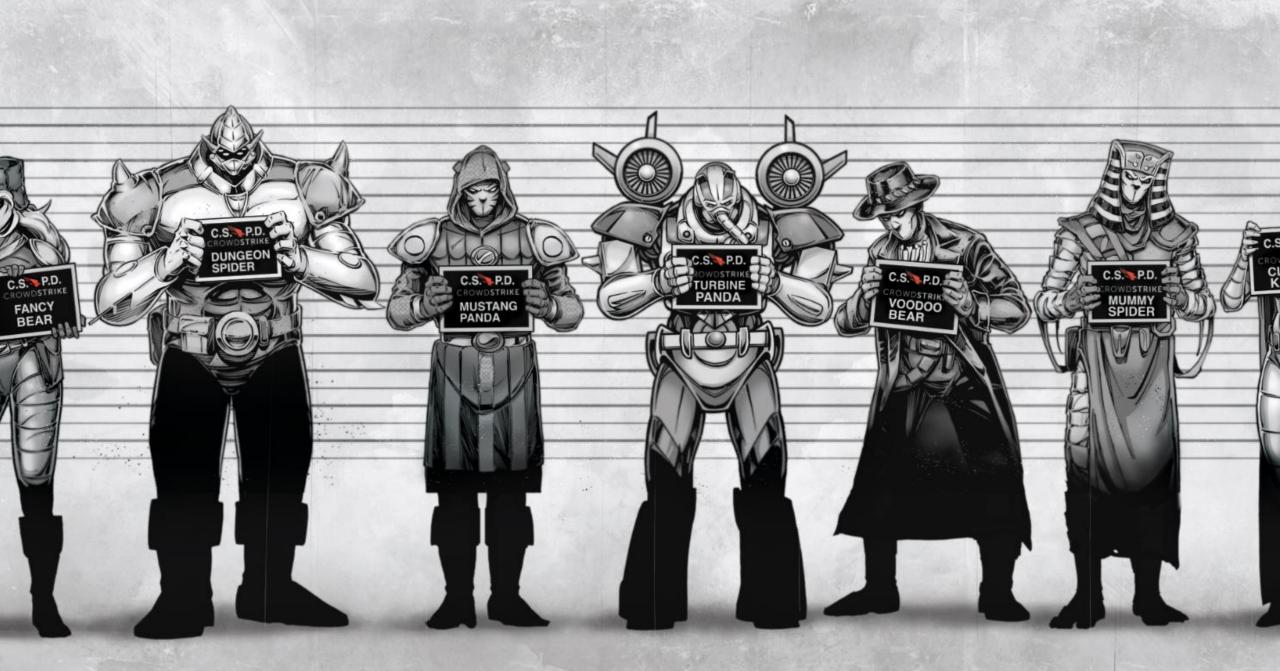


TIMELINE OF IMPORTANT EVENTS IN CTI HISTORY









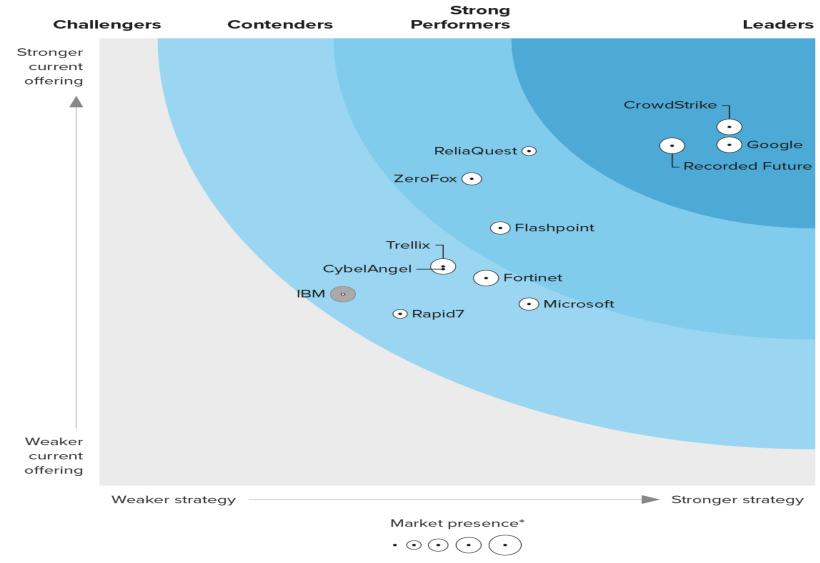




THE FORRESTER WAVE™

External Threat Intelligence Service Providers

Q3 2023



*A gray bubble or open dot indicates a nonparticipating vendor.

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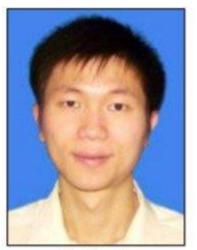






APT 40 CYBER ESPIONAGE ACTIVITIES

Conspiracy to Damage Protected Computers and Commit Economic Espionage;
Criminal Forfeiture



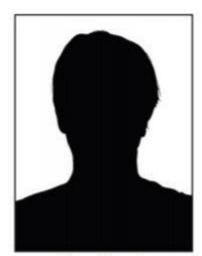
Zhu Yunmin



Wu Shurong



Ding Xiaoyang



Cheng Qingmin





BY THE FBI

BY THE FBI

PARK JIN HYOK

Conspiracy to Commit Wire Fraud and Bank Fraud; Conspiracy to Commit Computer-Related Fraud (Computer Intrusion)



DESCRIPTION

Allases: Jin Hyok Park, Pak Jin Hek, Pak Kwang Jin.

Place of Birth: Democratic People's Republic of Korea (North Korea)

Eyes: Brown

Races Aslan Languages: English, Korean, Handarin Chinese

REMARKS

Park is a North Korean citizen last known to be in North Korea. Park has traveled to China in the past and has reported dates of birth in 1984

Park Jin Hyok is allegedly a state-sponsored North Korean computer programmer who is part of an alleged criminal conspiracy responsible for some of the costlest computer intrusions in history. These intrusions caused damage to computer systems of, and stole currency and virtual currency from, numerous victims.

Park was alleged to be a participant in a wide-ranging criminal conspiracy undertaken by a group of hackers of the North Korean government's Reconnaissance General Bureau (RGB). The conspiracy comprised North Korean hacking groups that some private ybersecurity researchers have labeled the "Lazarus Group" and Advanced Pensistent Threat 38 (APT.98). On December 8, 2020, a festeral arrest warrant was issued for Park in the United States District Court, Central District of California, after he was charged with one count of conspiracy to commit wire fraud and bank fraud, and one count of conspiracy to commit computer fraud (computer intrusions). A federal arrest warrant was previously issued for Park on June 8, 2018, after he was charged with one count of compilacy to commit wire fraud and one count of conspiracy to commit computer related fraud (computer intrusion) in a federal criminal complaint

If you have any information concerning this person, please contact your local FBI office or the nearest American Embassy or

Field Office: Los Angeles

JON CHANG HYOK

Conspiracy to Commit Wire Fraud and Bank Fraud; Conspiracy to Commit Computer-Related Fraud (Computer Intrusion)



Allases: Quan Jiang, Alex Jiang Place of Birth: Democratic People's Republic of Korea (North Korea)

Eyes: Brown

Races Asian

Hadry Black

Languages: English, Korean, Mandarin Chinese

REMARKS

jon is a North Korean citizen last known to be in North Korea, jon has traveled to China in the past and has reported a date of birth in 1989.

CAUTION

jon Chang Hyok is allegedly a state-sponsored North Korean hacker who is part of an alleged criminal conspiracy responsible for some of the costliest computer intrusions in history. These intrusions caused damage to computer systems of, and stole currency and virtual currency

Jon was alleged to be a participant in a wide-ranging criminal conspiracy undertaken by a group of hackers of the North Korean government's Reconnaissance General Bureau (RGB). The conspiracy comprised North Korean hacking groups that some private cybersecurity researchers have labeled the "Lazarus Group" and Advanced Persistent Threat 38 (APT38). For his part in the conspiracy, son is alleged to have been directly involved in the development and dissemination of malicious cryptocurrency applications targeting numerous cryptocurrency exchanges and other companies. On December 8, 2020, a federal arrest warrant was issued for jon in the United States District Court, Central District of California, after he was charged with one count of conspiracy to commit wire fraud and bank fraud, and one count of conspiracy to commit computer fraud (computer intrusions)

If you have any information concerning this person, please contact your local FBI office or the nearest American Embassy or

Field Office: Los Angeles

Allases: Julien Kim, Tony Walker

Place of Birth: Democratic People's Republic of Korea (North Korea)

Eyes: Brown

Race: Asian

Languages: English, Korean, Mandarin Chinese

REMARKS

DESCRIPTION

Conspiracy to Commit Wire Fraud and Bank Fraud; Conspiracy to Commit Computer-

Related Fraud (Computer Intrusion)

Kim is a North Korean citizen last known to be in North Korea. Kim has traveled to Singapore and Russia in the past and has reported a date of birth in 1994

Kim II is allegedly a state-sponsored North Korean hacker who is part of an alleged criminal conspiracy responsible for some of the costilest computer infrusions in history. These intrusions caused damage to computer systems of, and stole currency and virtual currency from,

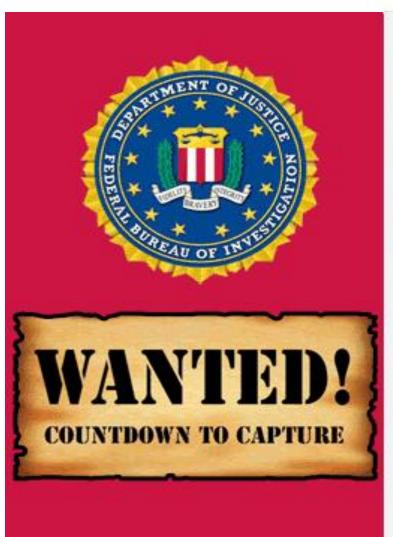
Kim was alleged to be a participant in a wide-ranging criminal conspiracy undertaken by a group of hackers of the North Korean government's Reconnaissance General Bureau (RGB). The comprany comprised North Korean hacking groups that some private cyberiesurity researchers have labeled the "cazarus Group" and Advanced Persistent Threat 38 (APT38). For his part in the conspiracy, Kim is alleged to have been directly involved in the development and dissemination of a malicious cryptocurrency application, in cyber-enabled heists from financial institutions, and in the Marine Chain initial coin offering. On December B. 2020, a federal arrest warrant was issued for Kim in the United. States District Court, Central District of California, after he was charged with one count of conspiracy to commit wire fraud and bank fraud, and one count of conspiracy to commit computer fraud (computer intrusions)

If you have any information concerning this person, please contact your local FBI office or the nearest American Embassy o

Field Office: Los Angeles.

GRU HACKERS' DESTRUCTIVE MALWARE AND INTERNATIONAL CYBER ATTACKS

Conspiracy to Commit an Offense Against the United States; False Registration of a Domain Name; Conspiracy to Commit Wire Fraud; Wire Fraud; Intentional Damage to Protected Computers; Aggravated Identity Theft



















IRGC CYBER ACTORS

Conspiracy to Commit Computer Intrusions; Obtaining Information by Unauthorized
Access to Protected Computers; Intentional Damage to Protected Computers;
Aggravated Identity Theft; Conspiracy to Commit Wire Fraud



Said Pourkarim Arabi



Mohammad Reza Espargham



Mohammad Bayati

CAUTION

Said Pourkarim Arabi, Mohammad Reza Espargham, and Mohammad Bayati are wanted for their alleged involvement in criminal activities including computer intrusions, identity theft, and wire fraud. These Iranian hackers allegedly conspired to commit computer intrusions targeting American companies in the aerospace and satellite industries. They allegedly engaged in a coordinated campaign of social engineering that resulted in the theft of United States citizens' identities, which they then used to steal critical information related to American aerospace and satellite technology and resources, including sensitive commercial information, intellectual property, and personal data. The men allegedly conducted this activity at the direction of Iran's Islamic Revolutionary Guard Corps (IRGC). On September 15, 2020, a federal grand jury in the United States District Court for the Eastern District of Virginia, in Alexandria, Virginia, indicted the men on charges of Conspiracy to Commit Computer Intrusions, Obtaining Information by Unauthorized Access to Protected Computers, Intentional Damage to Protected Computers, Aggravated Identity Theft, and Conspiracy to Commit Wire Fraud, and federal arrest warrants were issued.

If you have any information concerning these individuals, please contact your local FBI office.







THE HUWAN BEHIND THE KEYBOARD











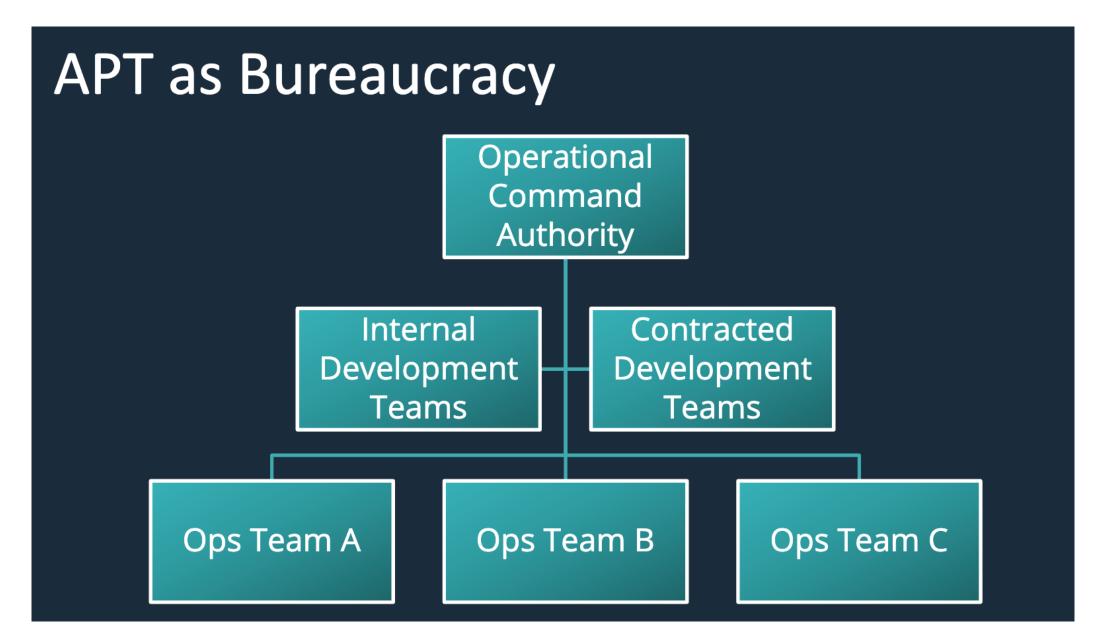




CHUOSE YOUR HACKER



State Sponsored















Людям із порушенням

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About us News Enemies of Ukraine Public information Multimedia Career Contacts

Ukraine protects the world

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Main / Message

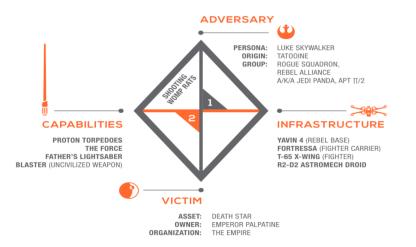
Message

Software, ciphers, secret documents — cyber specialists of the State Security Service hacked the Russian Ministry of Defense

March 4, 2024

Cyber specialists of the Ministry of Defense of Ukraine implemented another successful special operation against the aggressor state of Russia as a result of the attack, it was possible to gain access to the servers of the Ministry of Defense of the Russian Federation.

THREATCONNECT INCIDENT 19770525F: BATTLE OF YAVIN (EVENT: DEATH STAR DESTRUCTION)

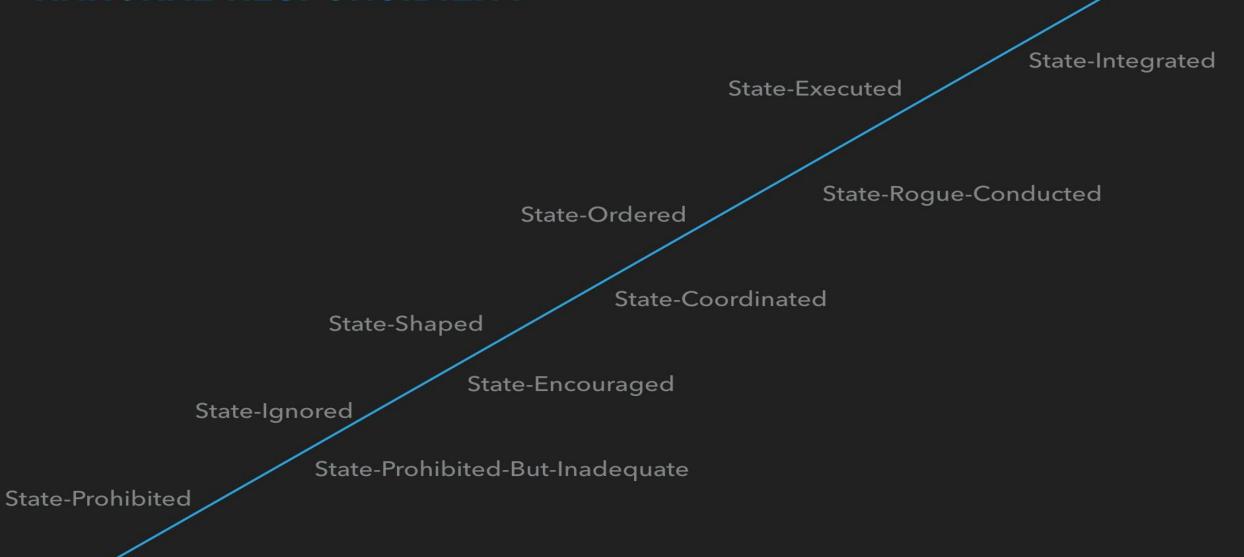




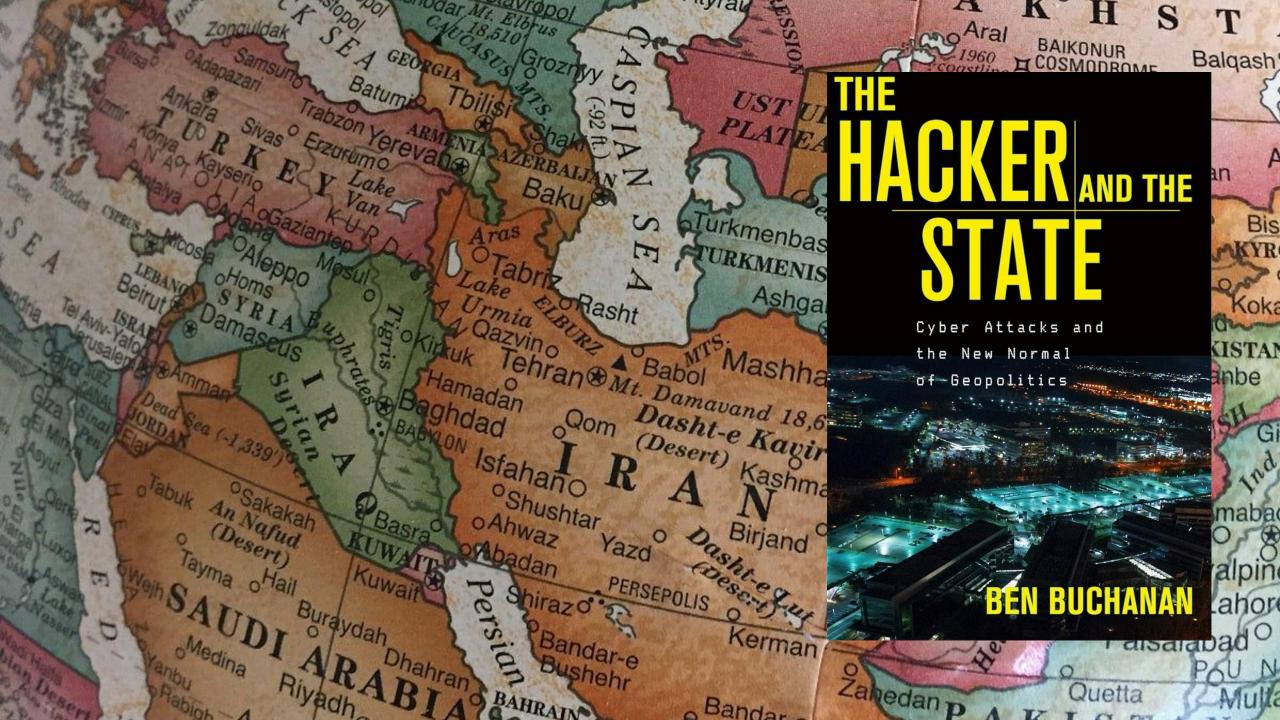




NATIONAL RESPONSIBILITY

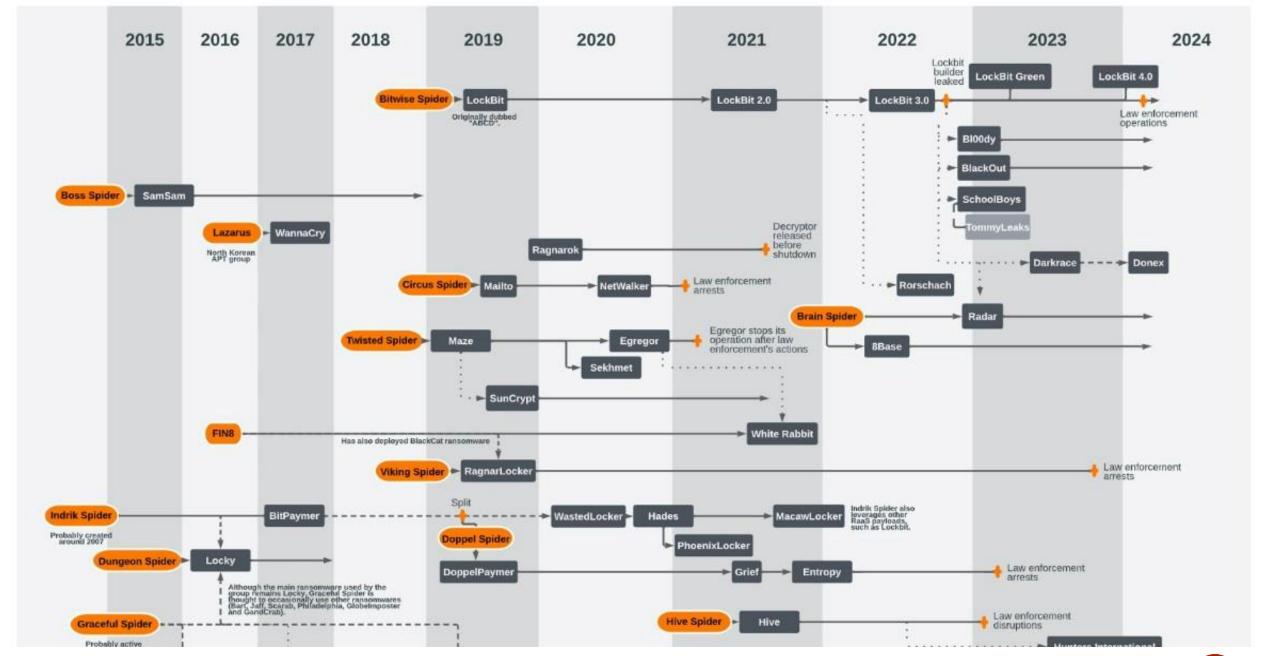


Jason Healey, Atlantic Council



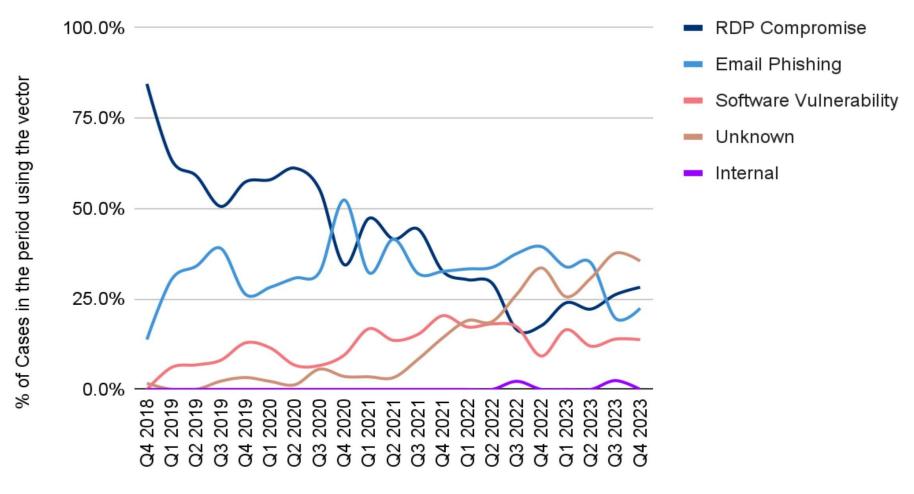






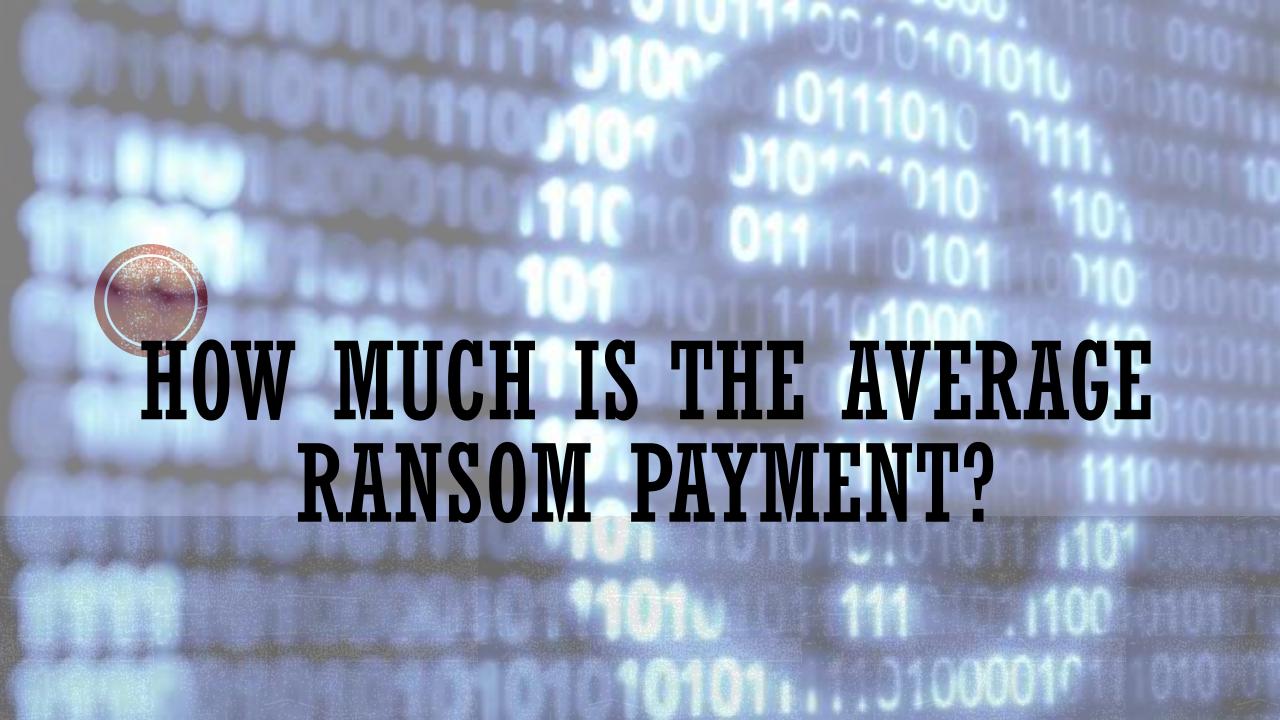


Ransomware Attack Vectors

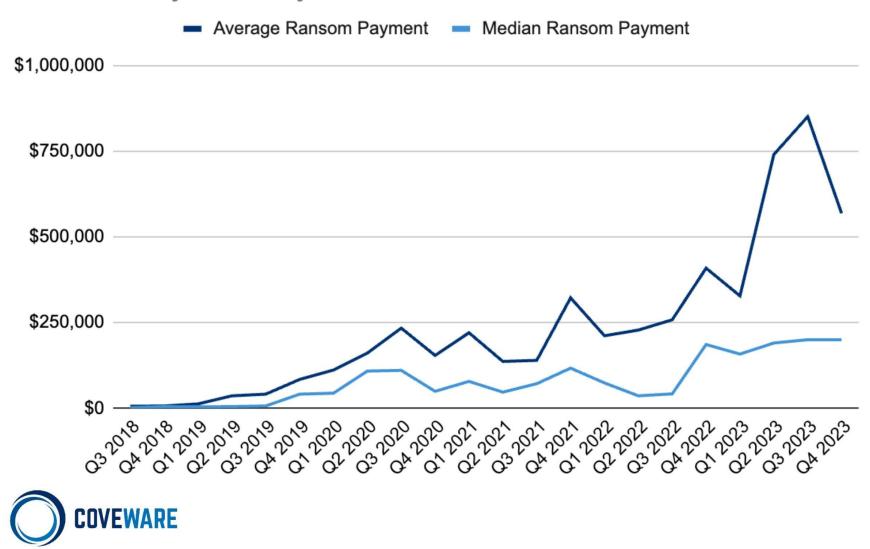






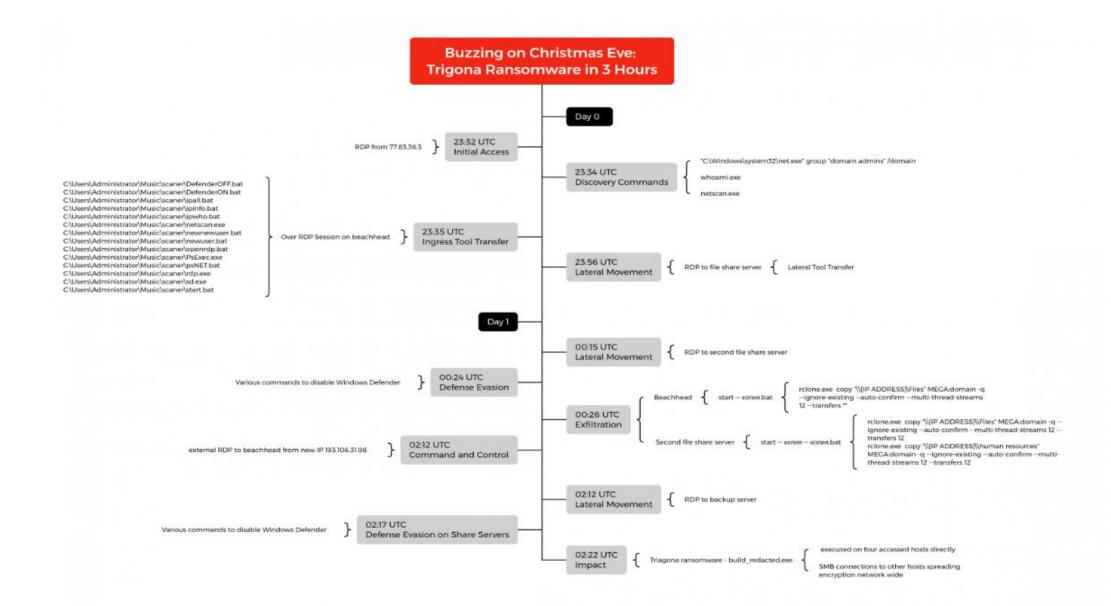


Ransom Payments By Quarter











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Lacativists

- GhostSec Hack/DDoS
- SecJuice OSINT
- Belarusian Cyber-Partisans *
- Ransomware
- BeeHive Cybersecurity -Hack/Sec
- HackenClub Hack
- studentcyberarmy DBos
- CyberPalyanitsa -Cybercossacks-
- NAFO -
- Anonsec Italia-
- Saint Javelin
- Ukrainian Cyber Alliance -Hack
- HimarsDDoS DDoS
- IT Army of Ukraine -DDoS/Hack
- Cyber Legions Hack
- Ukrainian Hackers Group Hack/DDOS
- KT "special CIA Operation OSINT
- Cyber Anarchy Squad -DDoS/Hack
- FRC Army UA DDoS
- Cyber Resistance Hack
- Cybersecs DDoS
- CyberPolk Hack
- AltroAnon DDoS/Hack
- Hack Your Mom Hack
- International Intelligence
- Legion OSINT
- cyber-Regiment DDoS/Hack
- Twelve DDoS/Hack
- YourAnonUKRIR DDoS
- Windef Hack
- HGH Hack
- AltroX DDoS
- Ghostclan DDoS/Hack

AnonGhost – DDoS/Hack

- Anonymous Romania DDoS
- Kromsec -
- NEW ADDITIONS
- Clawritsec DDoS HDR0 Deface/Hack InformNapalm Infoops
- Blackwolves Team DDoS
- Kobirg Infoops/Hack
- Anon Koryos DDoS
- Ukraine GUR Hack

21 FEB2024 Russia Ukraine War CyberTracker #26 – 125 Total Groups

RaHDit - Hack

- Bear IT Amy DDo \$/Infoops
- ZOV cyber army
- Cyber Front Z -

Pro-Ukraine - 44 Groups

- Info Front VoZzdie -
 - Cyber Army Russia -
 - Legion DDoS Beregini -
- NoName057(16) D FRwLteam -
- RedHackersAlliance -
- Anonymous Russia -
- Phoenix DDos
- JokerDPR Hack DDo Sia Project - D
- **GhostWriter Hack**
- SandWorm Hack
- Gamaredon Hack
- Cadet Blizzard Hack
- FancyBear/APT28 Hack .
- Turla APT Hack
- SaintBear/TA471 Hack
- Calisto Group Hack
- Russian Hackers Team -
- Infinity Hackers By -DDoS/Hack
- Anonymous Sudan -DDoS
- Usersec DDoS
- Zarva legion DDoS
- 62IX DDoS
- Net-Worker DDoS
- Solntsepyok Hack

- Combatosint OSINT
- · Ember Bear Hack
- UAC-0099 Hack
- UAC-0050 Hack
- Storm-0978 (RomCom) •
- akur.group DDoS
- Krypton Botnet DDoS
- Patriot Black Matrix
- Zulik Group
- Nethunters [
- **Anonymous Central** Russia
- Voshod
- Sila ikc
- Darkseek
- Rubit
- Ruddos
- Jar2 Zov DDo\$ Russianbirdsec - DDoS
- Onfpower DDoS
- BearSpaw DDoS
- Server Killers DDoS
- RussiaV2022 Infoops
- InfoCentre Infoops

R00TK1T - Hack

Pro-Russia - 81 Groups

- Kingofversus DDoS
- Darknet Joker DDoS/Deface
- Russian Cult Group -DDoS.
- Kanehill DDoS/Deface
 - **Anonymous Legion -**DDoS
- Grafnetworks -DDoS/Hack
- CoupTeam DDoS Killnet 2.0 - DDoS
- Phanonas Cyber Army
- (PCA) DDoS/Hack
- Federal Legion DDoS
- Mistnet (botnet) Botnet
- CortadorZ DDoS
- WolframiumZ Infoops
- Xhinetsha DDoS
- Angel anoncent Infoops
- Robin Hood Cyber -DDoS/Deface
- Skillnet DDoS
- ClownsNet DDoS
 - Blooder V2 DDoS
 - 22C DDoS/Deface

NEW ADDITIONS

- Fr13nds DDoS
- Mrakoborecnew Infoops
- Darkstorm DDoS
- Pravdanf Infoops
- Skynet Botnet (GodZilla) - Botnet
- Istocni front DDoS
- Cyber Dragon DDoS
- We are Legion DDoS · Just Evil (Killmilk) -

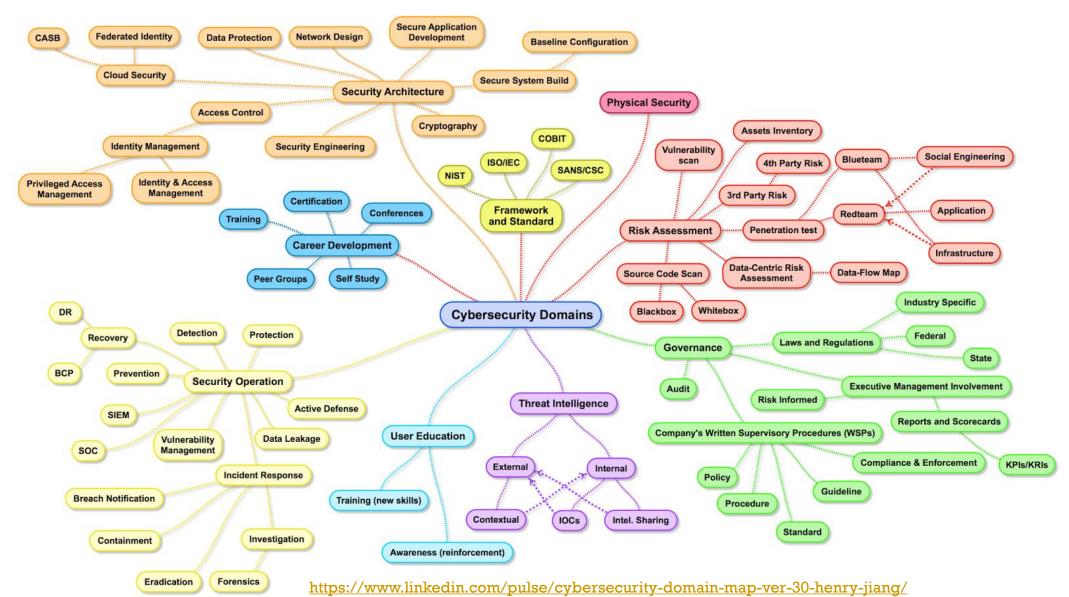
DDoS/Hack

THE CORPORATE CYBER SHIELD



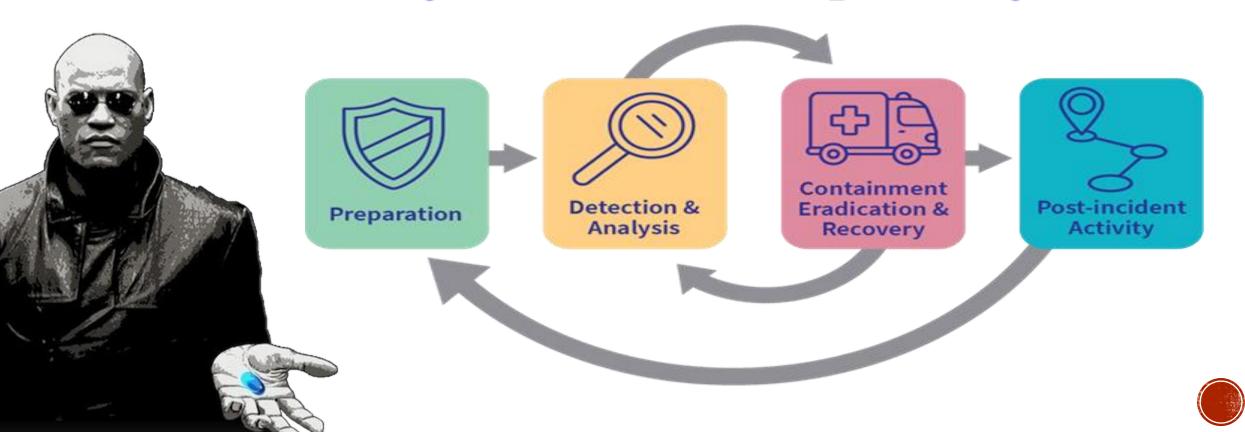


WELCOME TO CYBER SECURITY

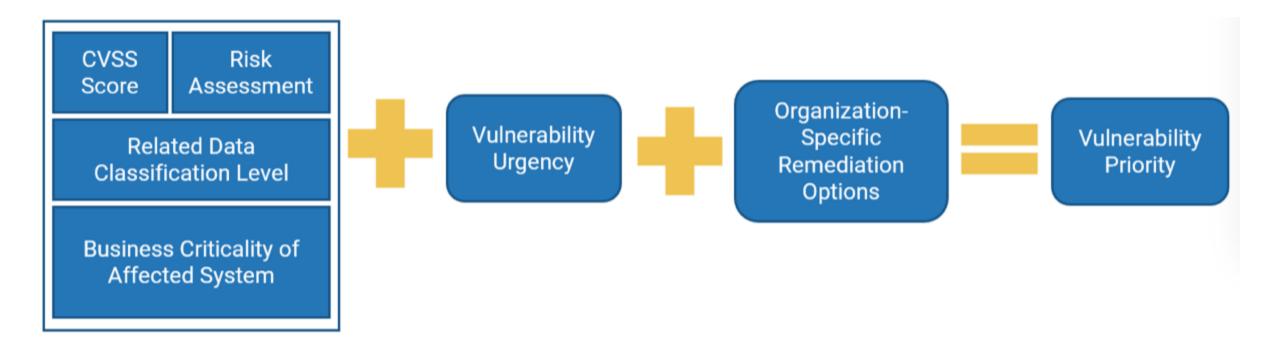


SECURITY OPERATIONS AND INCIDENT RESPONSE

Cyber Incident Response Cycle



VULNERABILITY MANAGEMENT





THREAT INTELLIGENCE

INTELLIGENCE AREAS

TACTICAL

Focused on performing malware analysis & enrichment, as well as ingesting atomic, static, and behavioral threat indicators into defensive cybersecurity systems.

STAKEHOLDERS:

- SOC Analyst
- SIEM
- Firewall
- Endpoints
- IDS/IPS



OPERATIONAL

Focused on understanding adversarial capabilities, infrastructure, & TTPs, and then leveraging that understanding to conduct more targeted and prioritized cybersecurity operations.

STAKEHOLDERS:

- Threat Hunter
- SOC Analyst
- · Vulnerability Mgmt.
- · Incident Response
- Insider Threat



STRATEGIC

Focused on understanding high level trends and adversarial motives, and then leveraging that understanding to engage in strategic security and business decision-making.

STAKEHOLDERS:

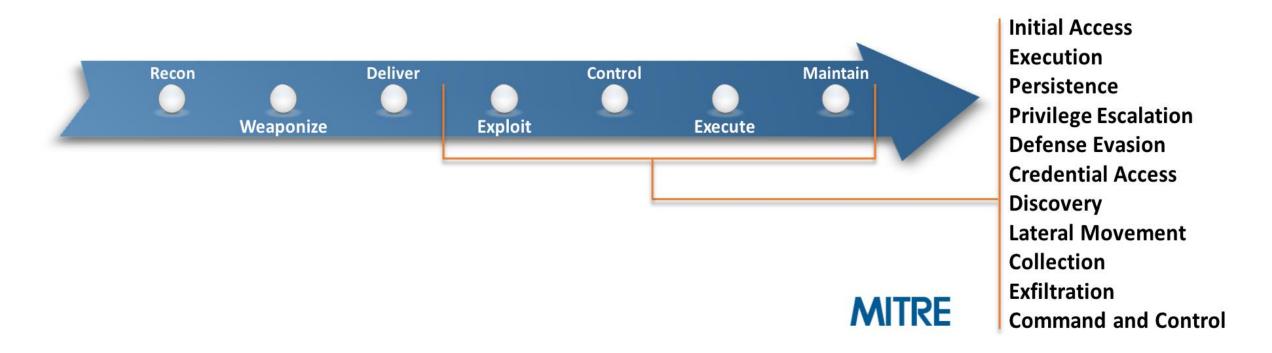
- CISO
- · CIO
- CTO
- Executive Board
- · Strategic Intel



"The Owner"

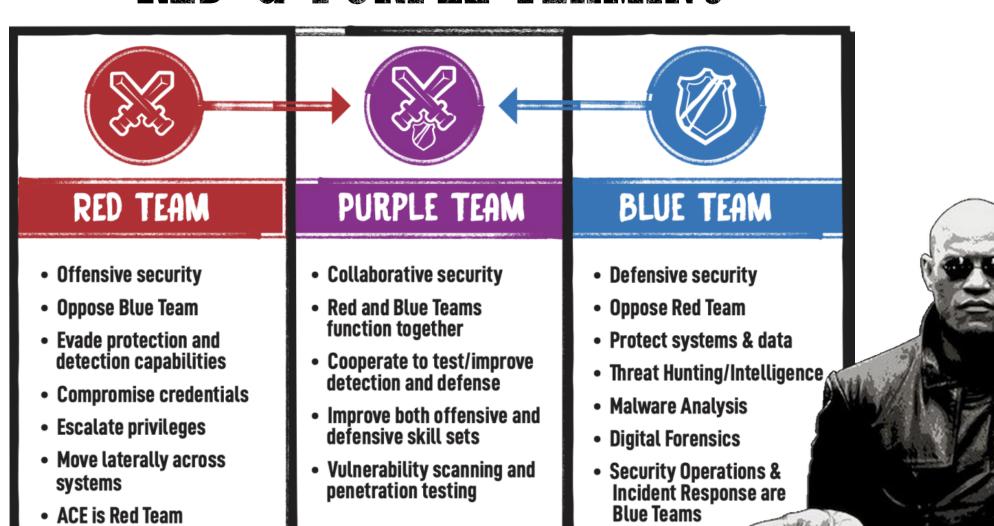


THREAT HUNTING

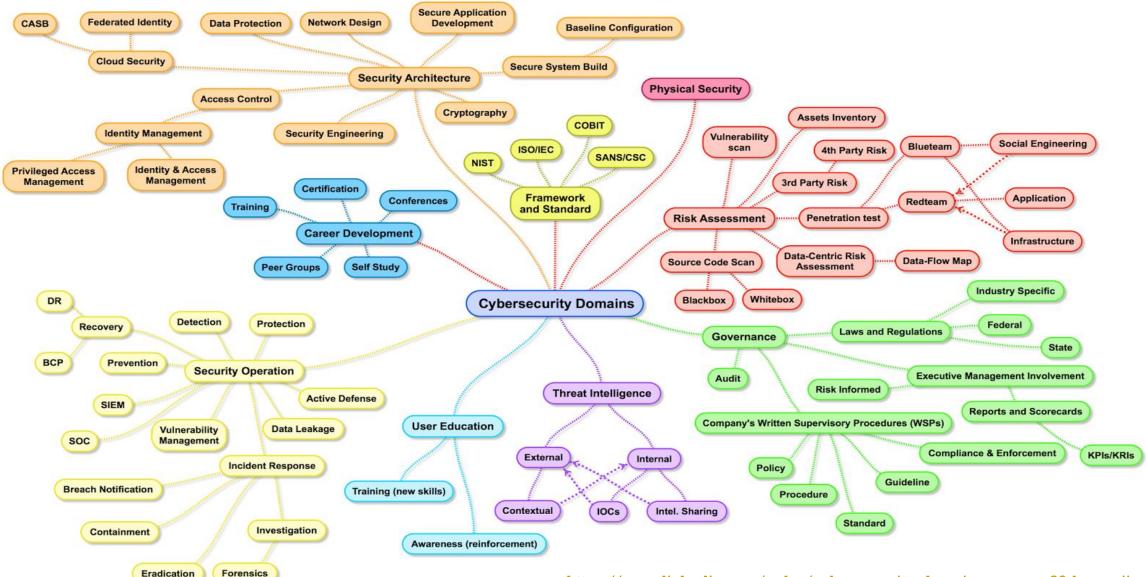




RED & PURPLE TEAMING



THE CORPORATE CYBER SHIELD





BUILDING THE CYBER DEFENDERS



Image from heritage-history.com











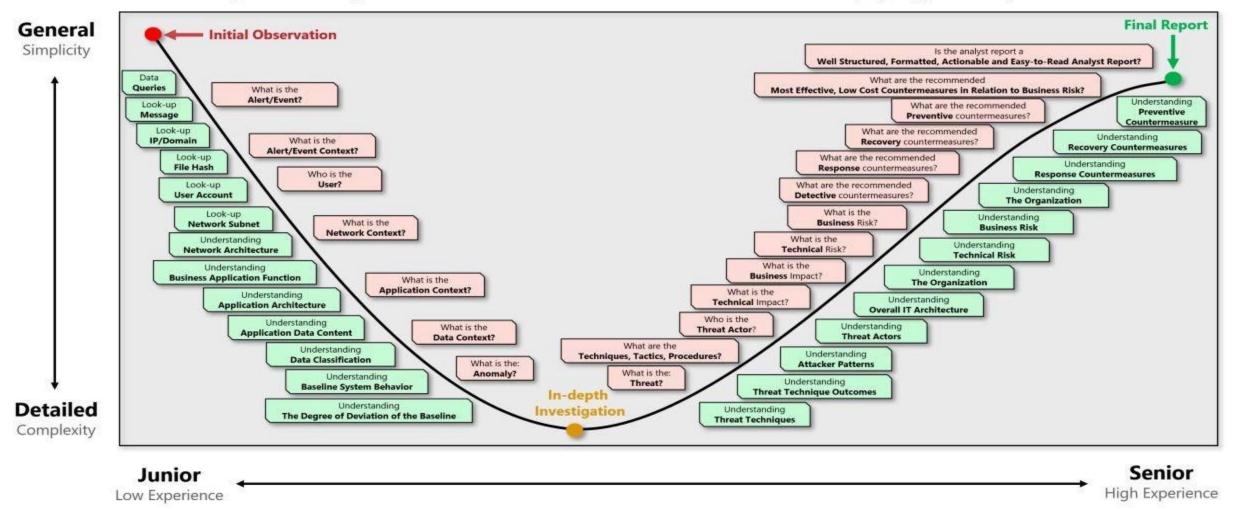






Cyber Security Analyst Maturity Curve

"A senior cyber security analyst should be able to reach the **simplicity at the far side of complexity** and to be able to communicate the cyber security risks, threats and related countermeasures **simply, effectively and actionable.**"





KEEPING UP TO DATE SITUATIONAL AWARENESS

RSS Aggregator (e.g., Feedly)

Twitter

Cyber News Websites

Reddit

Podcasts (e.g., CyberWire)

Newsletter Team (e.g., TC Dragon News Bytes)

Strategic Sources (e.g., Economist, CFR, etc.)

Weekly Summaries (e.g.This Week in 4n6)

Threat Intelligence Reports

ISACs

Trust Groups (e.g., Slack channels, mailing lists)

Threat Intelligence Vendors



CONTINUOUS EDUCATION MINDSET

Self-initiated

CTFs

Academic programs

Certifications

Online training material

Conferences

Books

Audiobooks





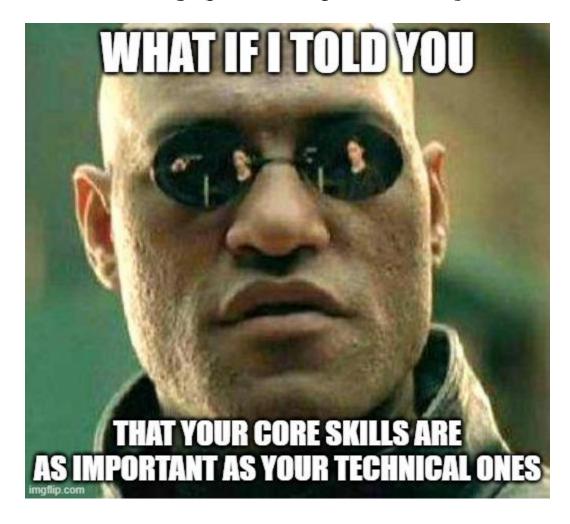






DON'T UNDERESTIMATE CORE SKILLS

- Communication
- Teamwork
- Emotional Intelligence
- Business acumen
- Ethics







FINAL REMARKS



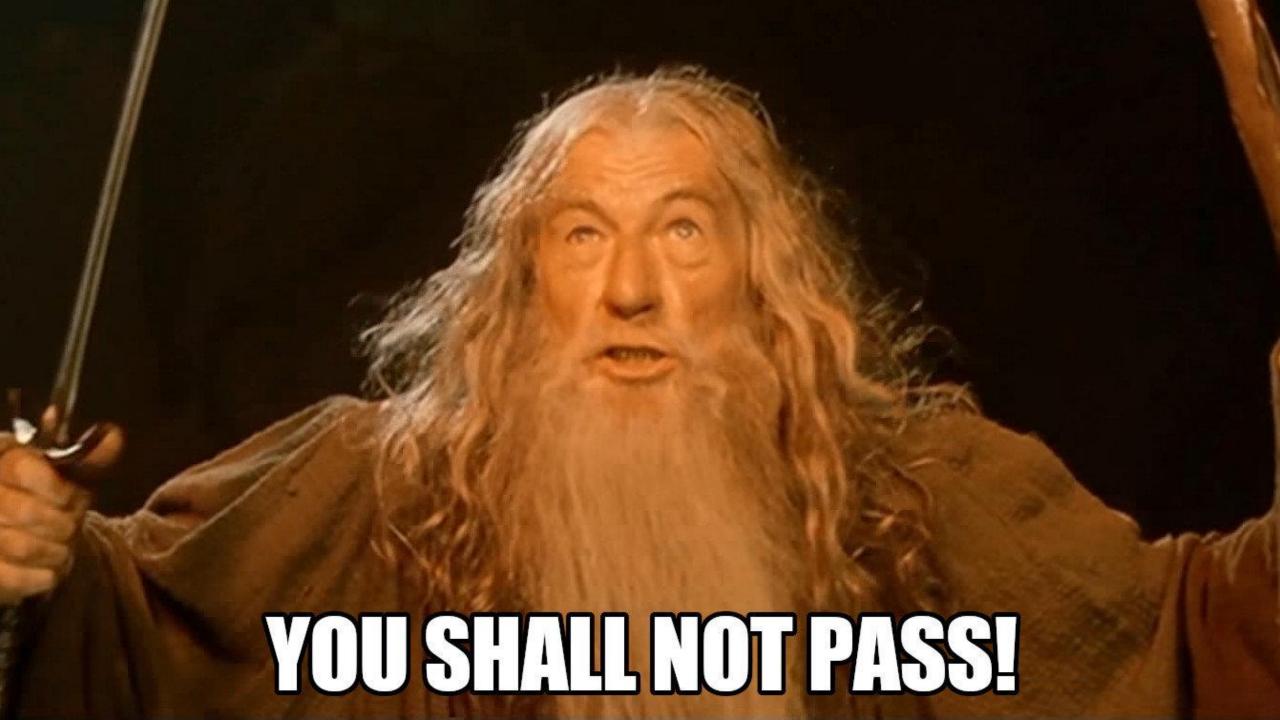
RECAP

Evolving cyber threat landscape

 Organisations with different threat profiles, business priorities, and "cyber shields"

 New generation of cyber defenders and tomorrow's leaders







@asfakian

threatintel.eu

