Know Your Threat Actor

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About Me

- 10+ Years Experience in IT Support.
- 3 1/2 Years Working in Cyber Security.
- · Specialising in Microsoft Technology Attack and Defense.
- Managed Red Team Operations.
- Conducted Physical Security Assessments.
- Primary Contact for DC441392.









MITRE ATT&CK Framework

MITRE ATT&CK is a globally-accessible knowledge base of adversary tactics and techniques based on real-world observations.

Allows an organisation to better understand what adversaries are doing.

Covers three tactics:

- · PRE-ATT&CK.
- · Enterprise.
- Mobile.

https://attack.mitre.org

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Red Team vs Blue Team

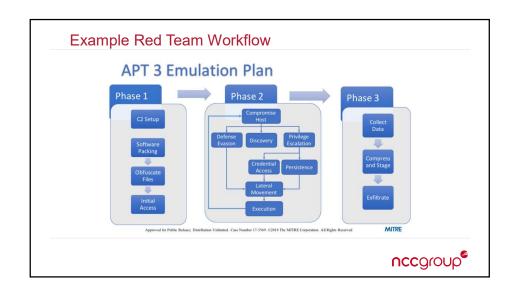
Red Team - Simulate Attacks

A red team challenges an organisation to improve its effectiveness by assuming an adversarial role or point of view. By assessing your cyber preventative controls, staff security awareness and challenging your Blue Team's detection and response processes.

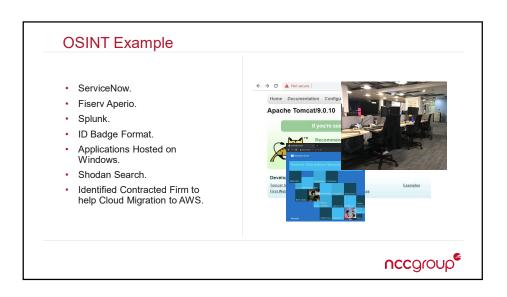
Blue Team - Defend Attacks

A blue team is a group of individuals who perform an analysis of information systems to ensure security, identify security flaws, verify the effectiveness of each security measure, and to make certain all security measures will continue to be effective after implementation

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Drop boxes

- · Raspberry Pi with 4G Dongle.
- · SMS Control Capability.
- Securely Granted Access to Target Network.
- Discrete Enough to Lay Hidden for Several Months.

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https://github.com/OneLogicalMyth/Huawei-SMS



Threat Actors

Types

- Activist.
- Competitor.
- Organised Crime Groups.
- Hacker.
- Insider (accidental/disgruntled).
- · Nation-state.
- Sensationalist.

Sophistication

- None.
- Minimal.
- Intermediate.
- Advanced.
- Expert.
- Innovator.
- · Strategic.

https://www.ncsc.gov.uk/blog-post/rating-hackers-rating-defences

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Persistence

- · Scheduled Tasks.
- · WMI Subscriptions.
- · Windows Startup Folder.
- · Registry Run Key.
- · Process Resource Hooking.
- · Stolen Plaintext Credentials.
- KBTGT Account Hash.



http://www.fuzzysecurity.com/tutorials/19.html

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Logging Made Easy (LME)

- · A logging system that just about any organisation could manage
- · Monitor software patch levels on enrolled devices
- Shows where administrative commands are being run on enrolled devices
- · See which users are using which machine
- · NCSC worked with the NCC Group to develop LME

https://www.ncsc.gov.uk/blog-post/logging-made-easy https://github.com/ukncsc/lme

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Five things to think about

- Network.
- Auditing and Logging.
- · Password and Account Policies.
- Role-based Access Control (RBAC).
- Patch Management including 3rd Party Software.



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