Cyber Attack Scenario Overview

Based on SROC class given by Hervey Allen, Chris Evans, and Phil Regnauld 2009 Santiago, Chile









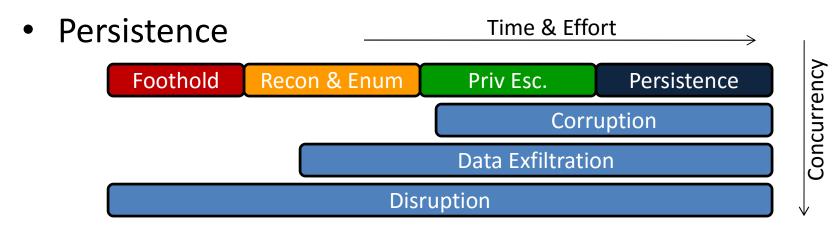




Overview

- Cyber Attack Categorizations
- Cyber Attack Demonstration Structure

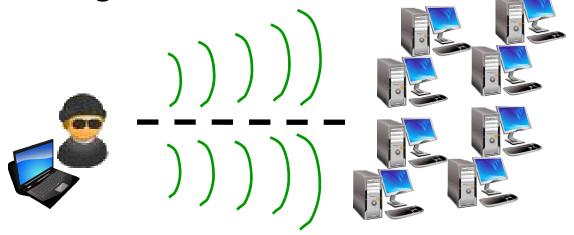
- Foothold
- Reconnaissance & Enumeration
- Privilege Escalation
- Corruption
- Disruption
- Data Exfiltration



- Foothold
 - Initial attempts to access and establish a remote connection into the network
 - Phishing Email with Malware Attachments
 - Website Hosted Malware Installations



- Reconnaissance & Enumeration
 - The act of scanning a network to determine its layout, hosts, services, users, and other information which may be useful in a cyber attack
 - Network Mapping
 - Port Scanning



- Privilege Escalation
 - Obtaining credentials, beyond what is normally available, for the purpose of accessing systems or information
 - Username / Password Cracking
 - Social Engineering

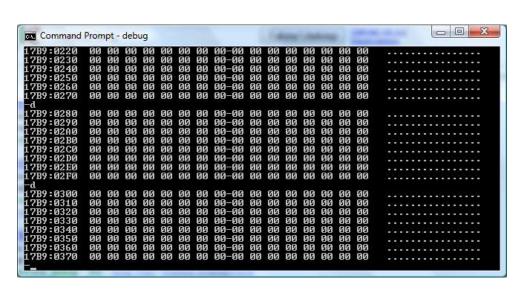


MetaSploit



- Corruption
 - Modifying information or content on a system or application
 - Website Defacement
 - Cache Poisoning

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- Disruption
 - Denying, degrading, or otherwise limiting the availability of services provided by a system or application
 - Packet Floods
 - Deleting Operating System Files



- Data Exfiltration
 - Copying data, that is not publicly accessible, from a network for malicious purposes
 - "Smash & Grab"
 - Corporate Espionage



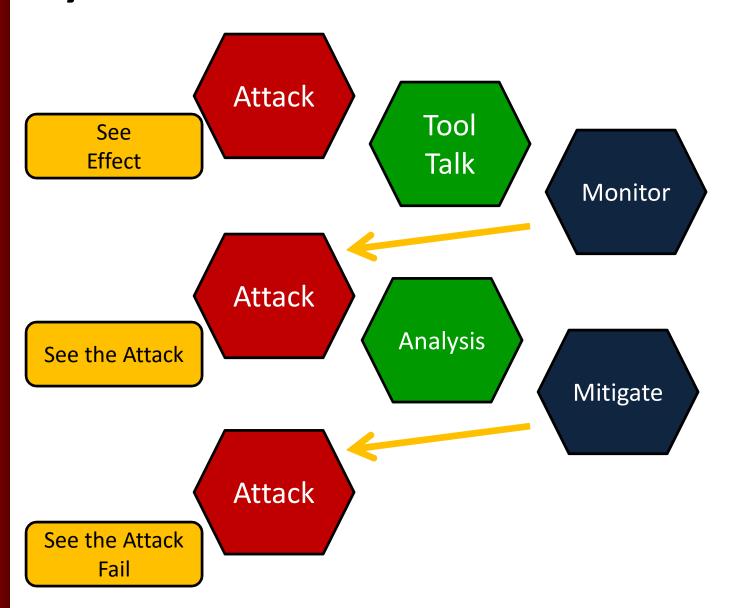
- Persistence
 - Establishing an unauthorized, constant, presence on the network and thwarting administrator removal attempts
 - Root Kits
 - Monitoring Administrator Actions



Cyber Attack Demonstration Structure

- How the cyber attacks will be demonstrated:
 - Attack Demonstration (Round 1)
 - Discussion of Monitoring Tools
 - Installation, Configuration, Operation of Tools
 - Establishing a Baseline
 - Attack Demonstration (Round 2)
 - Analysis of Results
 - Discussion of Response & Recovery Actions
 - Enact Response / Recovery Actions
 - Attack Demonstration (Round 3)

Cyber Attack Demonstration Structure



QUESTIONS?

- Do you have any questions about ...
 - Cyber Attack Categorizations
 - How the Cyber Attacks Will Be Demonstrated to You?

