Cyber Attack Scenario Overview

Hervey Allen Chris Evans Phil Regnauld

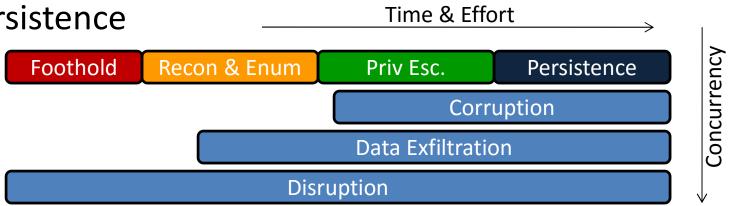


September 3 – 4, 2009 Santiago, Chile

Overview

- Cyber Attack Categorizations
- Cyber Attack Demonstration Structure

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



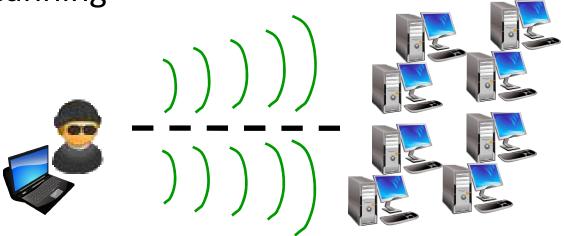
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• Foothold

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

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Subject: Attention: domain will be expired soon.	
Dear Network Solutions Customer,	This is a fraudulent email
receive a percentage of the net proceeds that were generated f	rk Solutions domain name had expired. As a benefit of having previously registered a domain name(s) with Network Solutions, you are eligible the regived and transfer of the domain name you chose not to renew. Since you have chosen not to renew the domain name listed below du at for this domain name on your Diffest and it has been transferred to another party in accordance with the Service Agreement.
Renew your domain now - http://www.networksphilions.com 9	lbhown network solutions.com.com#2.asia>)
	confirm your contact information is used to clearn these funds. If your contact information is not correct, you must enter Account Manager a atom screen. If you do not do thin, you will be confirming inaccurate information and will not receive any payment. Checks will only be made
Sincerely,	
Natural Solding Customer Sugard	

- 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

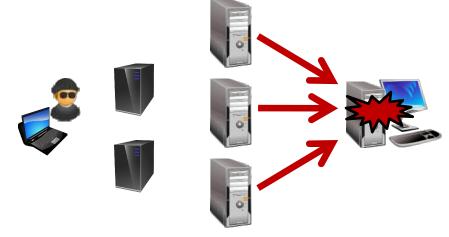
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- Corruption
 - Modifying information or content on a system or application
 - Website Defacement
 - Cache Poisoning

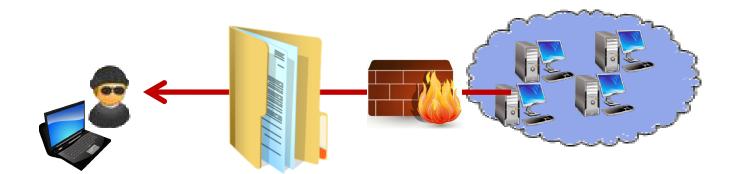
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- Disruption
 - Denying, degrading, or otherwise limiting the availability of services provided by a system or application
 - Packet Floods
 - Deleting Operating System Files



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



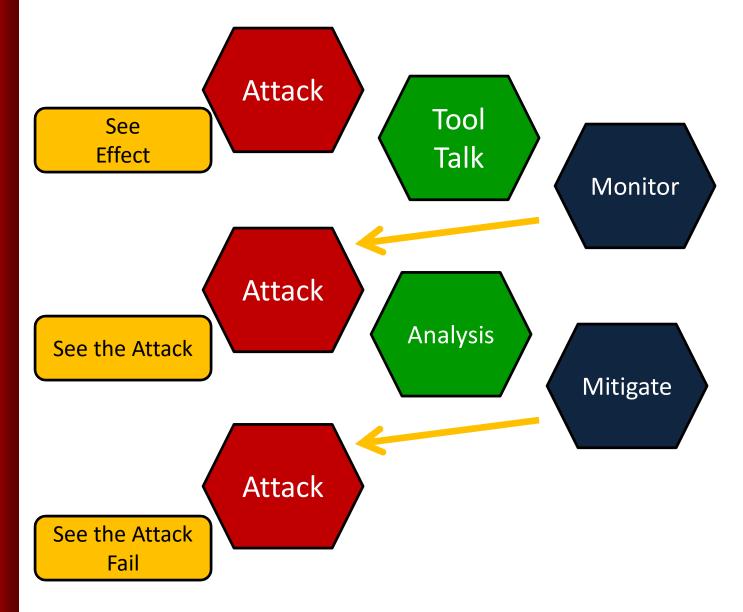
- Persistence
 - Establishing an unauthorized, constant, presence on the network and thwarting administrator removal attempts
 - Root Kits
 - Monitoring Administrator Actions



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?

