Understanding the Attackers and Their Methods



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Cyber Kill Chain Methodology



Reconnaissance













Reconnaissance

Website

Whois

DNS

Footprint

Open ports

Weaponization





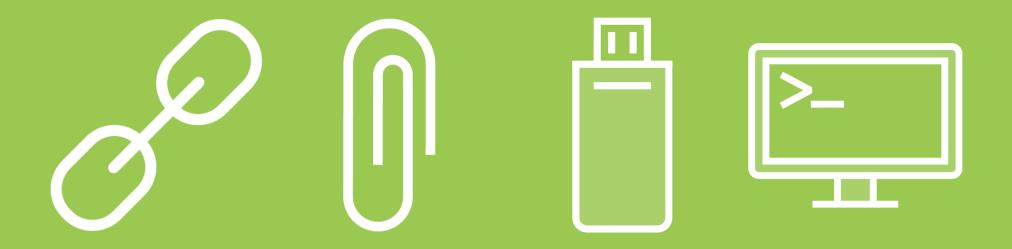








Delivery



Exploitation

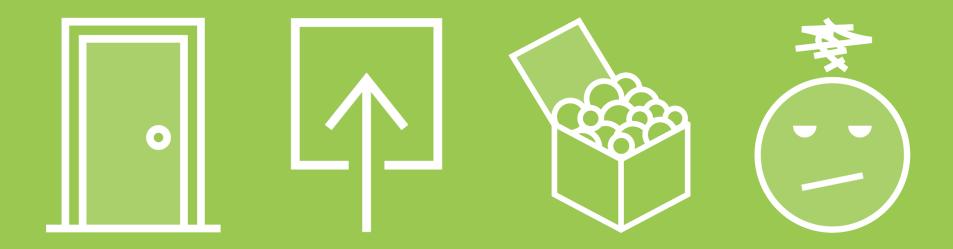








Installation



Command and Control (C&C)

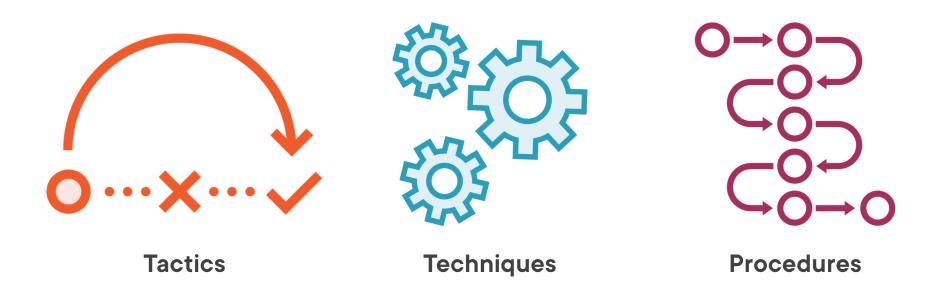


Action on Objectives

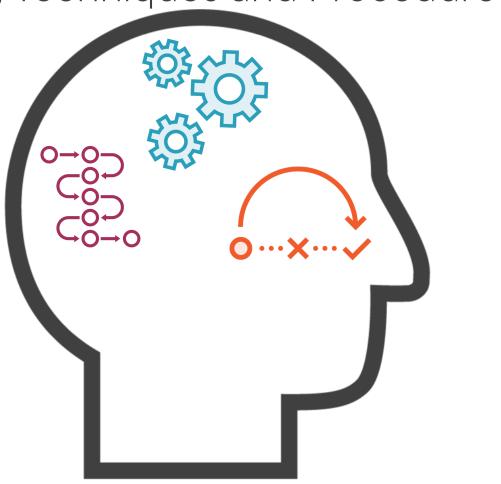




Tactics, Techniques and Procedures



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Adversary Behavioral Identification



Internal reconnaissance



Suspicious proxy events



PowerShell



HTTP user agent



CLI processes



C&C servers

Internal Reconnaissance



Enumeration

- OS
- Services
- Apps and versions
- Hosts
- Processes
- User accounts
- IP addresses
- Host names

Detect Compromised Hosts



Adversary Behavioral Identification



DNS Tunneling

Talk with C&C's

Bypass security controls

Monitor requests

DNS Payloads

Destinations





Unauthorized software and files

Suspicious emails

Suspicious registry and file system changes

Unknown ports and protocol usage

Excessive bandwidth usage

Rogue hardware

Service disruption and defacement

Suspicious or unauthorized account usage

Learning Check

Learning Check













Key Terms









Up Next:

Comparing Hacking and Ethical Hacking