Understanding the Attackers and Their Methods

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Cyber Kill Chain Methodology

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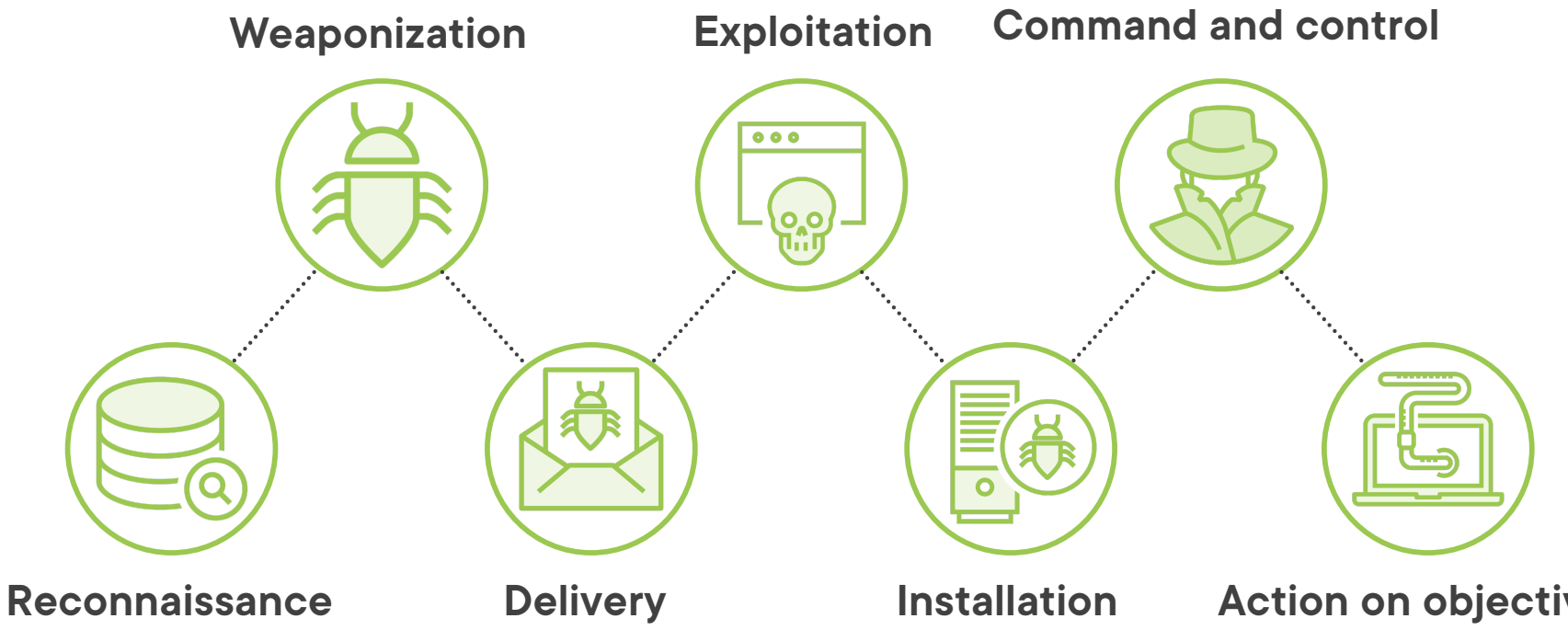
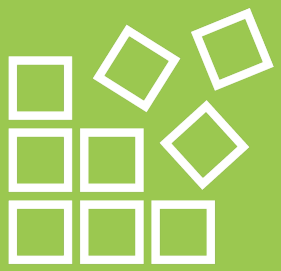
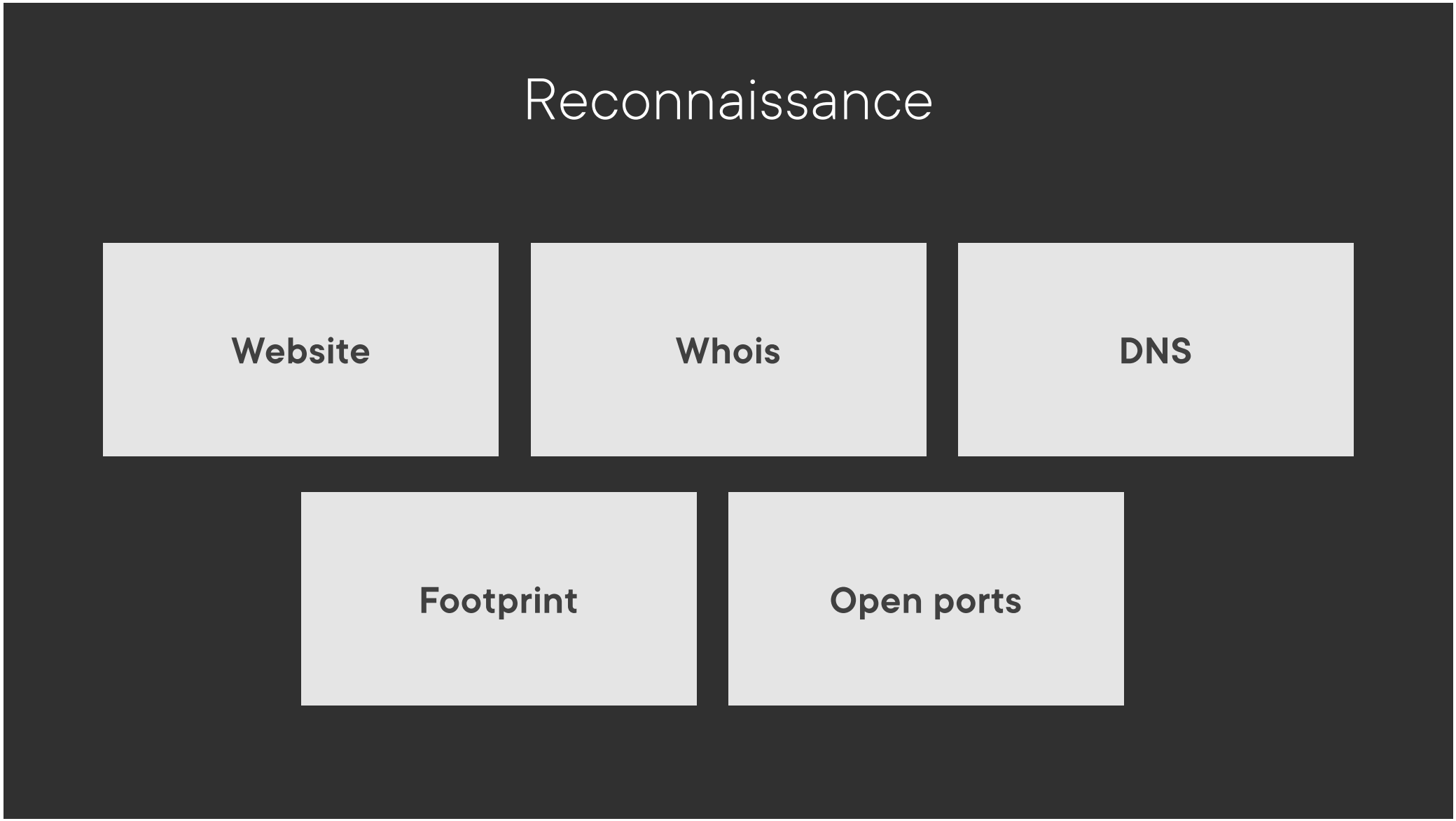


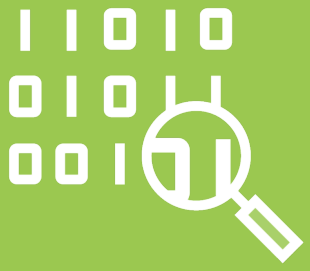
Reconnaissance

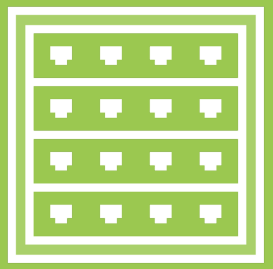




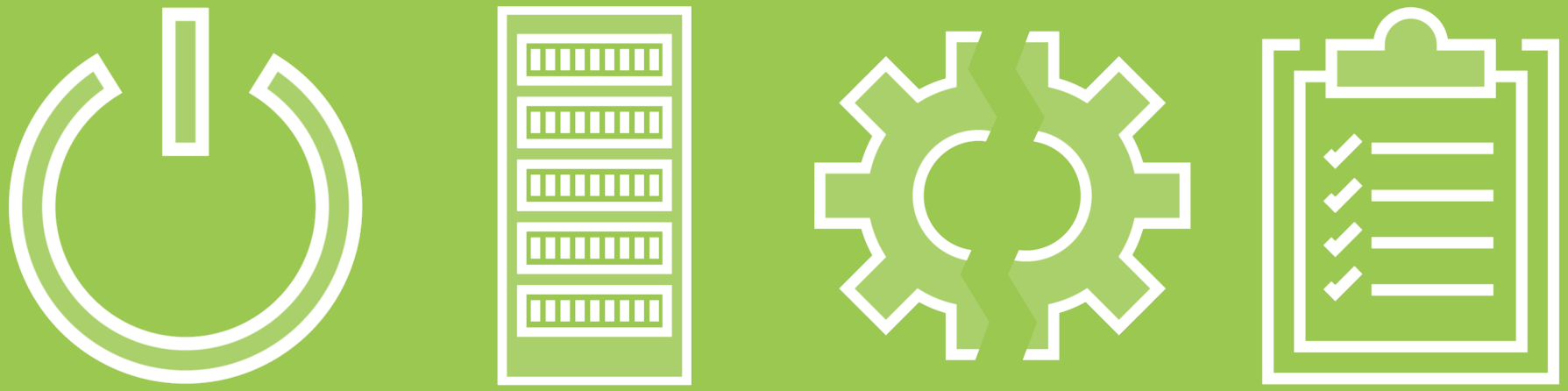



Weaponization





Exploitation



Installation

Command and Control (C&C)

Action on Objectives

Tactics, Techniques and Procedures

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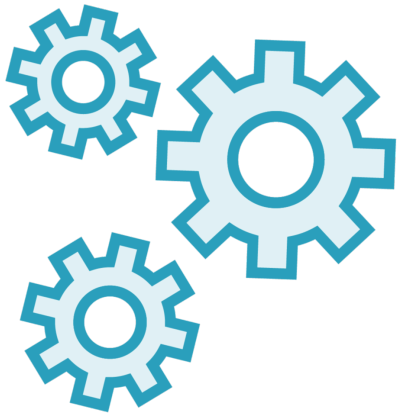
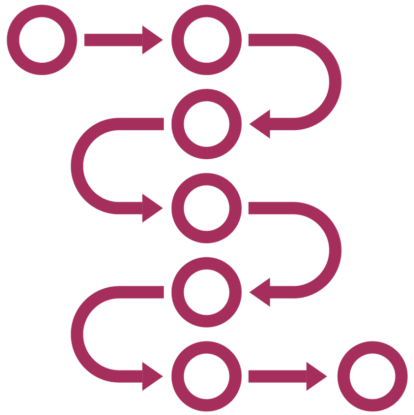
Tactics

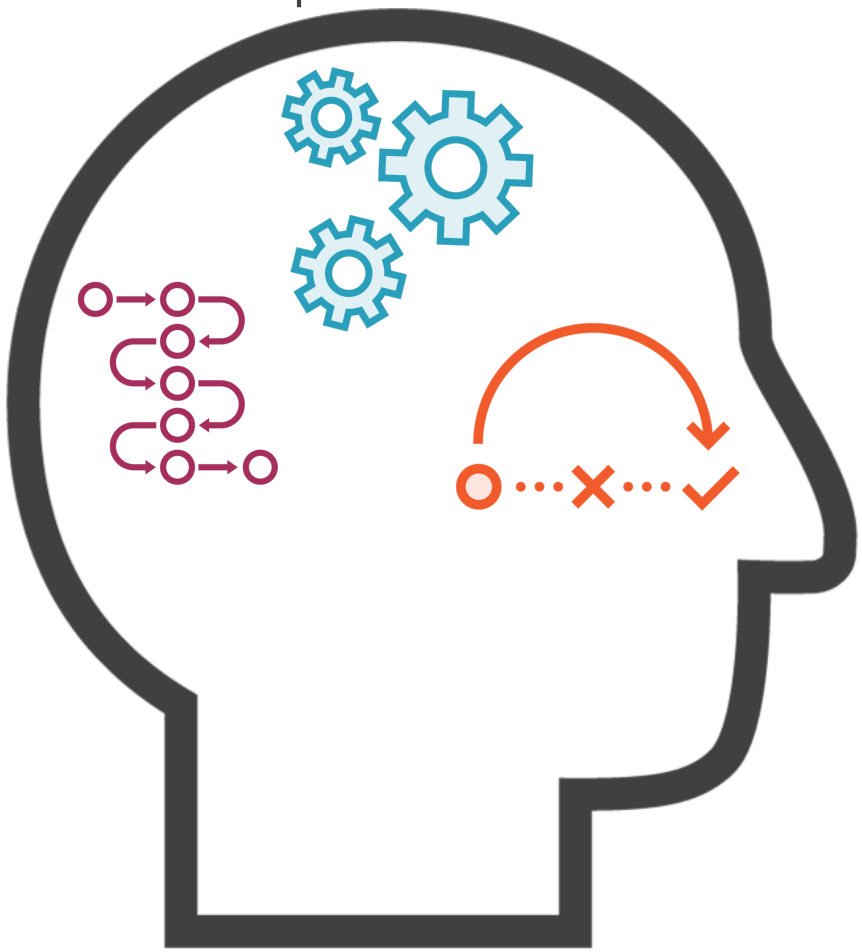


Techniques



Procedures

Tactics, Techniques and Procedures



Adversary Behavioral Identification

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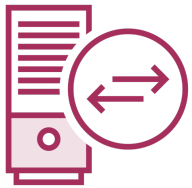
Internal reconnaissance

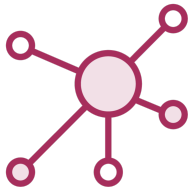


Suspicious proxy events

PowerShell

HTTP user agent

CLI processes



C&C servers

Internal Reconnaissance

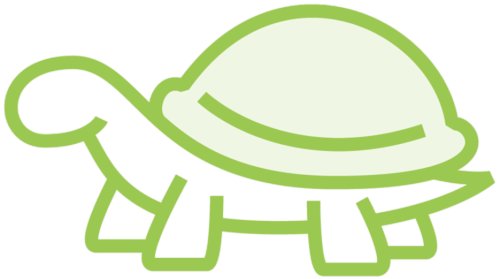
Enumeration

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

Detect Compromised Hosts

Adversary Behavioral Identification

DNS Tunneling



Web-shells

Data staging

DNS Tunneling

- **Talk with C&C's**
- **Bypass security controls**
- **Monitor requests**
- **DNS Payloads**
- **Destinations**

Indicators of Compromise (IoC)

- 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

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- **Exploitation**
- **Action on Objectives**
- **Powershell**
- **DNS Tunneling**
- **Data Staging**

Key Terms

- **Tactics**
- **Techniques**
- **Procedures**

Up Next:
Comparing Hacking and Ethical Hacking