## **RED TEAM FRAMEWORKS & METHODOLOGIES**

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## **RED TEAM ENGAGEMENTS**

- A successful Red Team engagement begins with clearly defining the goals/objectives of the engagement with the client.
- The Red Team is then tasked with planning and orchestrating the engagement based on the pre-defined goals/objectives.
- It is important to note that Red Team engagement does not focus on the search for vulnerabilities, instead, they target security operations as a whole.
- The results of a Red Team engagement should highlight the Blue Teams ability to detect and defend against attacks and where improvements can be made.



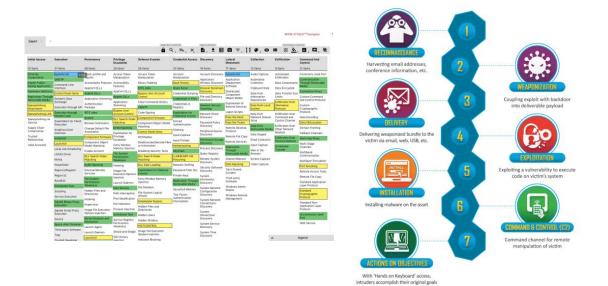
## **RED TEAM ENGAGEMENTS**

- Red Team engagements should also simulate/emulate new TTPs for the Blue Team to learn how to detect and defend against.
- A successful Red Team engagement requires a structured methodological approach, especially when simulating/emulating and adversary.
- It is therefore recommended to use an appropriate Red Team methodology/framework as a basis on which to plan, structure and orchestrate your campaign.
- Frequently utilized Red Team frameworks/methodologies include:
  - Cyber Kill Chain
  - MITRE ATT&CK Framework



## **RED TEAM FRAMEWORKS & METHODOLOGIES**

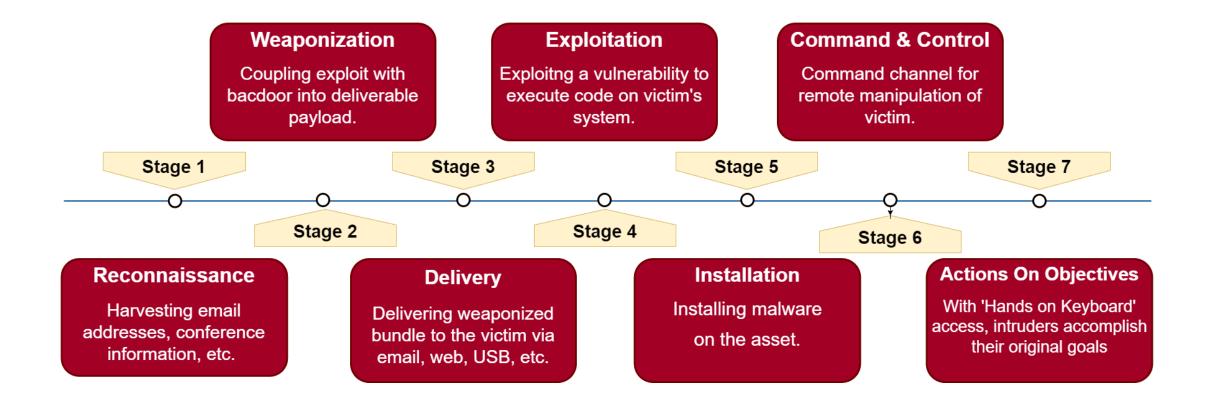
- Cyber Kill Chain (Lockheed Martin): https://www.lockheedmartin.com/enus/capabilities/cyber/cyber-killchain.html
- MITRE ATT&CK https://attack.mitre.org/
- Unified Cyber Kill Chain https://www.unifiedkillchain.com/





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## **CYBER KILL CHAIN**



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## MITRE ATT&CK Framework

Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Command And Control	Exfiltration	Impact
11 items	27 items	42 items	21 items	57 items	16 items	22 items	15 items	13 items	21 items	9 items	14 items
Supply Chain Compromise	Control Panel Items Service Execution	Security Support Provider	Access Token Manipulation	Access Token Manipulation	Input Capture Credential	Password Policy DI1056 Score: 5	Logon Scripts Pass the Hash	Input Capture Data from	Domain Fronting Uncommonly	Data Compressed	Endpoint Denial of Service
Drive-by Compromise	PowerShell	AppCert DLLs	Extra Window Memory	Control Panel Items	Dumping	R Metadata: tem Dis-Applicable to: client	Application	Network Shared Drive	Used Port	Data Encrypted	Network Den
	Regsvr32	Logon Scripts	Injection	Extra Window Memory Injection	Credentials in Registry	endpoints Sy-Detection score: 4	Deployment Software	Email	Remote Access Tools	Exfiltration Over	of Service
Attachment	Rundll32	Image File Execution Options	Process Injection	Masquerading	LLMNR/NBT-NS	Dis Overlay: Detection	Distributed	Collection	Commonly Used	Command and Control	Data Encrypt for Impact
Exploit Public- Facing	Scripting	Injection	AppCert DLLs	Process Injection	Poisoning and Relay	System Owner/User Discovery	Component Object Model	Audio Capture	Port	Channel	Data
Application	Scheduled Task	Application Shimming	Image File	Regsvr32	Account	Account Discovery	Exploitation of	Automated Collection	Data Obfuscation	Automated Exfiltration	Destruction
External Remote Services	User Execution	Scheduled Task	Execution Options	Rundll32	Manipulation	Process Discovery	Remote Services	Clipboard Data	Standard Application Layer	Data Transfer	Defacement
Hardware	CMSTP	Accessibility	Injection	Scripting	Brute Force	System Network	Pass the Ticket	Data from	Protocol	Size Limits	Disk Conten Wipe
Additions	Command-Line Interface	Features	Application Shimming	Image File Execution Options Injection	Credentials in Files	Configuration Discovery	Remote	Information Repositories	Communication Through	Exfiltration Over	Disk Structu
Replication Through	Compiled HTML File	Account Manipulation	Scheduled	Timestomp	Exploitation for Credential	Application Window Discovery	Desktop Protocol	Data from Local System	Removable Media Connection Proxy	Alternative Protocol	Wipe Firmware
Removable Media	Dynamic Data	AppInit DLLs Authentication	Task Accessibility	Obfuscated Files or Information	Access	Browser Bookmark Discovery	Remote File Copy	Data from	Custom	Exfiltration	Corruption
Spearphishing	Exchange	Package	Features	Binary Padding	Forced Authentication	Domain Trust Discovery	Remote	Removable Media	Comr 🗸	legen	d
Link Spearphishing	Execution through API	BITS Jobs	AppInit DLLs	BITS Jobs	Hooking	File and Directory Discovery	Services	Data Staged	Custo	Tech. ref. for	aroup
via Service	Execution through Module Load	Bootkit	Bypass User Account	Bypass User Account Control	Input Prompt	Network Service	Replication Through	Man in the	Crypt #ffcece Proto		gioup
Trusted Relationship	Exploitation for	Browser Extensions	Control	CMSTP	Kerberoasting	Scanning	Removable Media	Browser Screen	Data #ff0000	Tech. ref. for	l groups
Valid Accounts	Client Execution	Change Default	DLL Search Order Hijacking		Network Sniffing	Network Share Discovery	Shared	Capture	Doma	Tech in current	, detection
	Graphical User Interface	File Association		Compile After Delivery	Password Filter DLL	Network Sniffing	Webroot	Video Capture	Gene <mark>#ff8f00</mark> Algor	Tech. in group	+ detection
	InstallUtil	Component Firmware	Privilege Escalation	Compiled HTML File	Private Keys	Peripheral Device Discovery	Taint Shared Content		Fallba #8BC34A	Tech. in detec	tion

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## ATT&CK vs CYBER KILL CHAIN

MITRE ATT&CK	Cyber Kill Chain				
Recon	Recon				
Resource Development	Weaponization				
Initial Access	Delivery				
Execution	Exploitation				
Persistence	Installation				
PrivEsc	C2				
Defense Evasion	Actions On Objectives				
Credential Access					
Discovery					
Lateral Movement					
Collection					
Command and Control					
Exfiltration					
Impact					

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# Thank You

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