Purple Teaming on the Cheap

Whoami

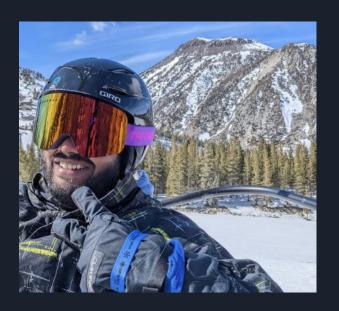
Senior Cyber Security Engineer

10 Years of Cyber Experience

Jack of all engineering trades

Enjoys traveling and cooking

Spending time with friends and family



Purple Teaming?

- Security Methodology
- Red and Blue Teams coming together



Tool Utilization







MITRE | ATT&CK®

Mitre Att&ck

Utilizing Information select an APT group

Customization based on internal intel



GROUPS

APT-C-36

APT1

APT12

APT16

APT17

APT18

APT19

APT28

APT29

APT3

APT30

APT32

APT33

APT37

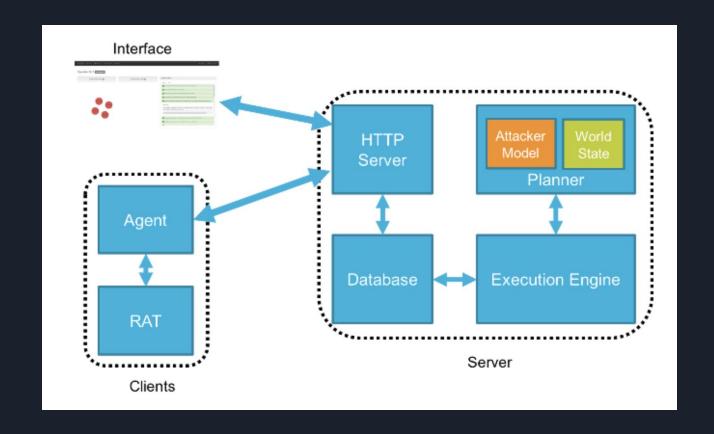
APT38

APT39

APT41

Aquatic Panda

Caldera



Demo Maybe?

Automation

Infrastructure as code solutions help reduce costs.

Packer helps to build the same image

Terraform helps deploy infrastructure automatically





BAS?

Breach and Attack Simulation tools

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AttackIQ	BreachLock	CyCognito	Cymulate
FireMon	Guardicore	Horizon3.ai	Mandiant
NetSPI	Pentera	Picus	Qualys
Randori	Rapid7	SafeBreach	Scythe
Skybox	Sophos	Tenable	XM Cyber

Splunk Attack Range



Logs Logs and more Logs







Metrics aka logs

Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Exfiltration	Command And Control
10 items	31 items	56 items	28 items	59 items	20 items	19 items	17 items	13 items	9 items	21 items
Drive-by Compromise Exploit Public-	AppleScript T119	spash_profile and .pashrc Accessibility Features	A STATE OF THE STA	Access Token Manipulation Binary Padding	Account Manipulation Bash History	Account Discovery Application Window Discovery	AppleScript Application Deployment	Audio Capture Automated Collection	Automated Exfiltration Data Compressed	Commonly Used Port Communication Through Removable
Facing Application	Command-Line Interface	AppCert DLLs	Enatures	BITS Jobs	Brute Force	Browser Bookmark	Software	Clipboard Data	Data Encrypted	Media
Hardware Additions	Control Panel Items	Applnit DLLs	Applet DLLs Applet DLLs	Bypass User Account	Credential Dumping	Discovery File and Directory	Distributed Component	Data from Information	Data Transfer Size Limits	Connection Proxy Custom Command
Replication Through Removable Media	Dynamic Data Exchange	Application Shimming		Control Clear Command History	Credentials in Files	Discovery	Object Model	Repositories	Exfiltration Over	and Control Protocol
Spearphishing Attachment		Authentication Package	Shimming	CMSTP	Credentials in Registry	Network Service Scanning	Exploitation of Remote Services	Data from Local System	Alternative Protocol	Custom Cryptographic
Spearphishing Link	Execution through Module Load	BITS Jobs	Bypass User Account Control	Code Signing	Exploitation for Credential Access	Network Share	Logon Scripts	Data from	Exfiltration Over	Protocol
Spearphishing via	Wat shows also an about Not only a	Bootkit	DLL Search Order	Component Firmware	traces was to be	Discovery	Pass the Hash	Network Shared Drive	Command and Control Channel	Data Encoding
Service	Exploitation for Client Execution	Browser Extensions	Hijacking	Component Object Model Hijacking	Forced Authentication	Password Policy Discovery	Pass the Ticket	Data from	Exfiltration Over	Data Obfuscation
Supply Chain Compromise	Graphical User Interface	Change Default File Association	Dylib Hijacking Exploitation for	Control Panel Items	Hooking	Peripheral Device	Remote Desktop Protocol	Removable Media	Other Network Medium	Domain Fronting Fallback Channels
Trusted Relationship	InstallUtil	Component Firmware		DCShadow	Input Capture Input Prompt	Discovery Permission Groups	Remote File Copy	Data Staged Email Collection	Exfiltration Over	Multi-hop Proxy
Valid Accounts	Launchetl	Component Object Model Hijacking		Deobfuscate/Decode Files or Information	Kerberoasting	Discovery	Remote Services	Input Capture	Physical Medium Scheduled	Multi-Stage
	Local Job Scheduling	Create Account	Memory Injection	Disabling Security Tools	Keychain	Process Discovery	Replication Through	Man in the	Transfer	Channels Multiband
	LSASS Driver Mshta	DLL Search Order Hijacking		DLL Search Order Hijacking	LLMNR/NBT-NS Poisoning	Query Registry Remote System	Removable Media Shared Webroot	Browser Screen Capture		Communication
	PowerShell	Dylib Hijacking		DLL Side-Loading	Network Sniffing	Discovery	SSH Hijacking	Video Capture		Multilayer Encryption
	Regsvcs/Regasm	External Remote	Trooking	Exploitation for Defense	Password Filter DLL	Security Software Discovery	Taint Shared			Port Knocking Remote Access Tools
	Regsvr32	Services	Execution Options	Extra Window Memory	Private Keys	System	Content Third-party			Remote File Copy
	Rundli32	File System Permissions		Injection	Replication Through Removable Media	Information Discovery	Software			Standard Application
1	Scheduled Task	Weakness	New Service	File Deletion	Securityd Memory	System Network	Windows Admin Shares			Layer Protocol
	Scripting Service Execution	Hidden Files and Directories	Path Interception	File System Logical Offsets	Two-Factor	Configuration Discovery	Windows Remote			Standard Cryptographic
		Hooking	Plist Modification	Gatekeeper Bypass	Authentication Interception	System Network	Management			Protocol
T T	Signed Binary Proxy Execution	Hypervisor	Port Monitors	Hidden Files and	interception	Connections Discovery				Standard Non- Application Layer
	Signed Script Proxy Execution	Image File Execution Options Injection		Directories Hidden Users		System Owner/User				Uncommonly Used
	Source	Kernel Modules and Extensions	Service Registry	Hidden Users Hidden Window		Discovery				Port
	Space after Filename	Launch Agent	Permissions Weakness	HISTCONTROL		System Service Discovery				Web Service

Contact

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