Purple Team Lifecycle

Overall Status: Completed

PB1100 - Enterprise Recon Profile, Hunt, Defend

Lifecycle Project Manager

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- Lifecycle Kickoff: 2/1/2021 Simulation Start: 2/3/2021 Simulation End: 2/6/2021
- Configuration Identified: 11/29/2020 Change Management Referred: 2/6/2021
- Configuration Deployed: TBD

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•	Attack Simulation
•	Defense Simulation

Attack SimulationDefense Simulation	System Configuration ChangeInformation	ge
APT Lifecycle Ingest and Research	 Lifecycle Type: Attack Simulation Lifecycle Objective: Alert, Defend 	 Ingest Source: MITRE T1277 https://attack.mitre.org/techniques/T1277/ Acquire OSINT data sets and information
	malicious disclosures. Research defense	a available to the public due to intentional, unintentional, or e opportunities and deploy domain monitoring and other disclosures of intellectual property have occurred.
Attack methodology	 Build OSINT Profile of Organization, Infrastructure and key employees. Data Sources: Social Media - Organization Information, Employee information Pastebin, GitHub - Identify source code, other information HackerTarget, URLCrazy - DNS Enumeration, Landscape Shodan.IO - Identify External Landscape, Vulnerabilities GrayHatWarefare - Search for \$3 Buckets LinkedIn, GlassDoor, Monster - Gather business organizational information, technologies Hunter.io: Identify employees, organizational relationships BeenVerified: Build Employee Profiles Post fictitious breach. 	
Defense methodology	 Work with HR, Marketing to limit publicly sensitive information Post Deceptive Information: Pastebin: "Breach" disclosure of account hashes and VPN endpoint VPN Service: Alert on account login. Automated Counter-defense Deny-list IP addresses from any successful logins on honey-VPN service 	
Lifecycle Adjustments	 Work with Legal to remove any IP from public internet (Pastebin, Github, etc) Configure alerting on Pastebin, Github, Shodan.IO, HIBP Work with Marketing Department, HR Department, DevOps regarding Awareness Practices Post Deceptive Information on Pastebin Build Honey VPN Service Demy-list IP's on Enterprise WAN from all successful Deceptive VPN Logins 	

Change Management	 Deploy new VPN Service. Create accounts. Self-Disclose accounts and hashes on Pastebin. Capture SRC IP of Deceptive VPN Login, update deny list on all endpoints and edges with SRC IP.
	 Users Affected: Security Team will receive new alerts regarding data disclosures from Pastebin, GitHub Network Team: will receive new alerts regarding network perimeter changes from Shodan.io
Lessons Learned	 Attack included a fictious post on Pastebin. It was necessary to configure Pastebin account for alerting on trigger keywords.
	 Deceptive service can be hosted anywhere besides enterprise data center. VPN was disclosed in deceptive breach. The Deceptive VPN can capture SRC IPs of successful logins and update the Deny-list utilized by enterprise Data Center edge routers and all endpoints protection solutions.