

Introduction to common

Red Team Attacks & Blue Team Defenses

Common Red Team Attack Vectors and Techniques

Common Attack Kill Chain

Common Blue Team Detective and Preventative Controls



Common Variations									RED TEAM	BLUE TEAM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Find Emails & Users			Verify Emails & Users			Create Phishing Payloads & Sites					Endpoint	Network	Process																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
LinkedIn.com Data.com			Google.com Bing.com			SMTP Server Cmds	Send Test Emails	HTTP with NTLM	Office365 OWA MS APIs	Create Content-Filter Exceptions	Buy Expired Domains	NA	Deny / log VRY requests Deny / log EXPN requests Log RCPT commands executed sequentially Large numbers of HTTP NTLM requests	User awareness training Track company's point of presence and employee exposure. Monitor domain expirations																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Email Sources			Email Targets			Email Content			Prepare Phishing Attacks from public resources																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Spoofed Internal Domain			Spoofed External Domain			Domain Similar to Company			Hacked Account			Mass Mailing			Targeted Mailing			Pretext Scenario			Malicious Links			Malicious Files & Embedding			Send Phishing Emails to employee addresses			NA			Email filters, thresholds, and spam rules Email source verification Blacklist checks SPF record checks Logs / SEIM / Alerts			User awareness training Incident response procedures																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Malicious Links			Website Components						Files			Deliver the Payloads to employee systems						Asset / config / patch mgmt. Anti-virus / HIDs / HIPs Secure group policy Mail client configurations MS Office Security Settings Web browser configurations Logs / SEIM / Alerts			Email filters, thresholds, and spam rules Deny / log relay requests Secure caching provider Web filtering / white listing Authenticated HTTP proxies Logs / SEIM / Alerts			User awareness training Incident response procedures																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Port Scan			Geo Locate			Phish Web Site			Credential Collection Form			Java Applet ClickOnce HTA			Browser Exploit			Browser Add-On Exploit			Common exec file formats			Office Docs + Macros			Run the Payload Commands on employee systems			Asset / config / patch mgmt. Anti-virus / HIDs / HIPs Secure group policy settings Application white listing Least privilege enforcement Logs / SEIM / Alerts			NA			User awareness training Incident response procedures																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Common Payload Command Types																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									