

AA

NetSentries Adversarial Attack Simulation Exercise for FINSERV For Banng Red/Purple Teaming



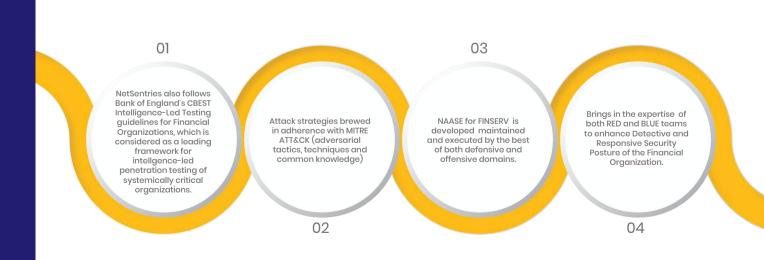
NAASE

NetSentries Adversarial Attack Simulaction Exercise for FINSERV

WHY NAASE FOR BANKING RED/PURPLE TEAMING

NAASE - NetSentries Adversarial Attack Simulation Exercise fo FINSERV is the only program encapsulating the best practices of Bank of Singapore's Red / Purple team guidelines, Bank of England's CBEST and MITRE ATT&CK.

Red / Purple Team / Adversarial Attack Simulation exercises are developed in conformance with Guidelines for the Financial Industry by Association of Banks in Singapore (ABS)



FINANCIAL ORGANIZATION OSINT AND DARK WEB ENUMERATION

- During Open-source intelligence (OSINT) and Darkweb enumeration NetSentries will collect data about the target organization from publicly available sources to be used in an intelligence context for further phases.
- NetSentries finds, collects and analyze relevant datasets publicly available about your organization that can be used by adversaries for planning fraud or cyber attacks.
- The collected datasets are risk scored and correlated with each other for identifying possible unknown threat vectors.
- The business risk scoring helps organizations to take necessary preventive proactive actions.
- NetSentries also offers effectiveness review of organizations brand monitoring service as an optional add on.



COMMON DARKWEB DATASETS ENUMERATED

NetSentries Red Team will scour the Darkweb to identify possible latest hacker tools and tactics that can be used against the targeted organization. All active searchable Darkweb market channels will be surfed for existence of any kind of sensitive data like:

- Leaked ATM/Credit cards
- Stolen Bank accounts
- Sophisticated hardware hacking tools
- Rogue mobile applications mimicking on market products
- Infrastructure, Web app, mobile version related exploits in Dark Web (Oday exploits)
- Accessibility of corporate web application with low latency anonymity browsers

- Intranet portals/ websites accessible from the internet
- Legacy systems used by the organization
- Corporate Email Addresses
- Backlinks to Corporate Domain
- Backlinks to Corporate Domain
- Disaster Recovery Locations
- Corporate Domain Name
- Brand Discussions
- Data center locations
- Geospatial information (e.g.,maps and commercial imagery products)

- Organizational public IP Addresses and devices
- Sensitive files / documents
- Known security solutions used
- Organization related Image / Video / Docs
- Organization related Image / Video / Docs
- Technology used
- VPN gateways and other perimeter devices
- VPN gateways and other perimeter devices
- Organizational Instant Messaging Channels
- Operating systems used
- Traditional mass media (e.g., television, radio, newspapers, books, magazines)

- Time Zone of operation work hours
- Organizational Social Network Accounts/ Social media profiles with organisation data
- Locations and Branches
- Compliance Standards followed
- Organizational Forums / Blogs / IRC
- Partner organization
- People Related- to Organization and Corporate Usernames
- Archives Related to Organization
- Organisational data in public Code repositories

- Archives Related to organization
- Investors in the organization
- Corporate VOIP infrastructure (exposed to the internet)
- Tools Used by the organization
- Investments by the organization
- File upload options (option for pubic to share info with bank)
- Mobile Applications owned and used by organization
- Autonomous systems BGP

COMMON OSINT DATASETS ENUMERATED

BANKING RED TEAMING

BANKING EXTERNAL RED TEAMING AND SPEAR PHISHING WITH CLEANET/DARKWEB ENUMERATION 0

OSINT and DARKWEB enumeration to collect datasets related to organization that can be used for adversarial actions.

02

Extreme Blackbox Penetration Testing all E banking and Mobile banking Channels with available public and Dark web exploits including zero days. 03

Advanced Spear phishing with custom evasive exploits and specially created landing pages. 04

Whaling, smishing and social engineering clubbed attacks. 05

Advanced post exploitation actions like persistency, lateral movement, data exfiltration and password dumping. 06

Access to phishing framework for Blue Team/SOC training.



BANKING INFRASTRUCTURE INTERNAL RED TEAMING BANKING OSINT AND DARK WEB ENUMERATION

Verify the effectiveness of logical and physical security controls related to People, Process and Technology like a determined insider attacker with:

- Network security control manipulation
- End point security control bypass
- Internal Security Gateways Control bypass
- Advanced Active Directory Information Gathering, Enumeration and Reconnaissance
- SQL Server Trust Abusing
- Kerberos and WMI attacks
- Privilege escalation

- Pivoting
- Advanced Lateral Movement (WMI, PS Remoting, DCOM, etc.)
- Critical Infrastructure OS Control Validation
- Internal aapplication Manual exploitation
- Advanced Persistence / Backdooring
- Data Exfiltration bypassing corporate security controls
- Enterprise Wireless Cracking

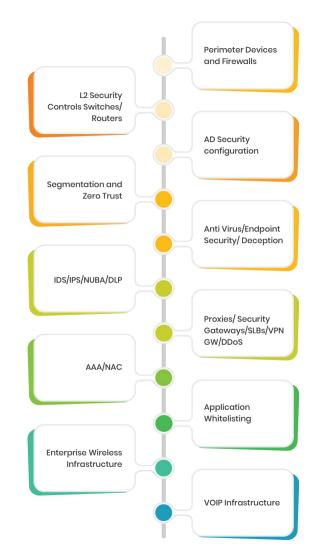
BANKING PURPLE TEAMING

As part of Purple Teaming NetSentries Team evaluates the effectiveness and proper implementation of thefollowing technologies:

NetSentries red team conducts objectives-based assessments that mimic known and quantifiable threat actors.

Banks blue team /SOC educate themselves around $^{\perp}$ the Techniques, Tactics and Procedures, and build $^{\perp}$ and configure their detection and response capability in-line with these known approaches.

Banks benefit from much more tailored, real-world assurance.



REMEDIATION ENABLEMENT

DEFENSIVE SECURITY ADVISORY

- Remediation
 Recommendations for all failed defensive security controls
- Roadmap for remediation with prioritization of issues to be addressed
- Advisory for compensatory controls where immediate fix is not possible
- Guidance on virtual patching if required
- Selective patching recommendations for minimal business impact

CSOC INCIDENT DETECTION ENABLEMENT

- Strategic Planning Support for remediation of failed incident detection
- Generic recommendations on type of device logging to be enabled and rate limiting
- Recommendations on use cases for addressing detection failures reported

ADVANCED CSOC INCIDENT DETECTION ENABLEMENT

Support for Log baselining,
Events of Interest Definition,
Selective Log Forwarding
Recommendations,
Use case/Correlation rule
definitions, monitoring
dashboard development
recommendations, Compliance
monitoring and failed security
control monitoring strategy
definitions etc. to improve the
Detection and Response
Posture

EXECUTION PHASES

PHASE 0

Scoping and Enumeration (DarkWeb and Clearnet, if external, RTPT is in scope) PHASE 1

Adversarial Simulations, control validations and remediation recommendation PHASE 2

Remediation Enablement

PHASE 3

Effectiveness Validation



REMEDIATION ENABLEMENT

SMART SECURITY - DELIVERED

NetSentries Technologies a specialized Banking and FINTECH Cyber Threat Management Services company headquartered in Dubai, UAE with offshore service and Development centers in Bangalore and Cochin India.

75+ experienced consultants in various Information Security domains Providing Services to 40+ banks in the Middle East and Rest of Asia Presence and Partners across the Globe.

- Cyber Threat Management SAT
- GRC Enablement
- SOC Assessments & Threat Simulations
- IOT/ICS/SCADA Security
- Cyber Security Consulting
- Control Validations
- Cyber Security Staff Augmentation

We carry out extensive research and development on Cyber Threat Management with specific focus on the Banking & Finance Industry requirements.

CONTACT US

🕲 NetSentries Technologies FZCO,Techno Hub 2, Dtec, Dubai Silicon Oasis, P.O. Box: 644945 Dubai, United Arab Emirates