SIGMA TECHNOLOGY

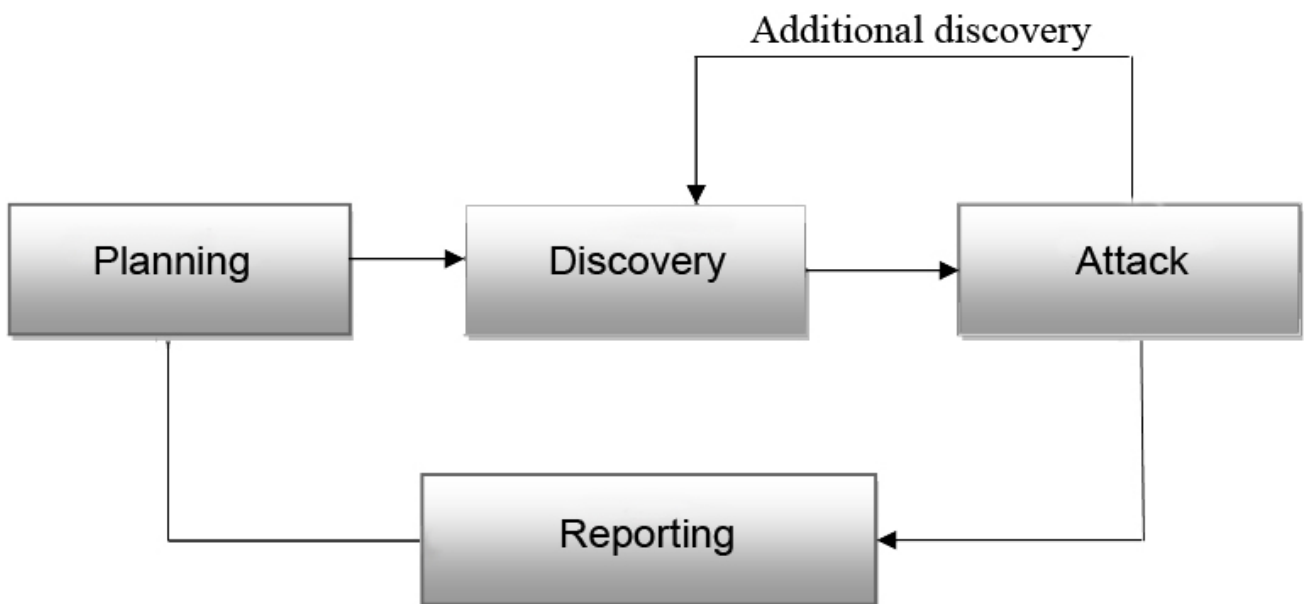## Solutions that Matter

Network Penetration and Vulnerability Assessment Services

Compliance | Risk Management | IT Governance | Assurance

Sigma Technology's Penetration Testing methodology is consistent with National Institute of Standard and Technology (NIST) SP800-115 guidelines.

A proactive computer network defense

Sigma Technology's Four Stage Penetration Testing Methodology

Proven methodology and Customized Techniques

Sigma's Penetration Assessment services take a tiered approach for Planning, Discovery, Attack and Reporting phases. Consistent with National Institute of Standard and Technology (NIST) SP800-115 guidelines, Sigma's Penetration test assessment follows the distinct four phases of Penetration lifecycle.

Using a proven methodology and automated testing tools, Sigma's assessment team assess networked environment and identify vulnerabilities and misconfigurations, validate existing controls, prioritize high-risk vulnerabilities and provide detailed remediation techniques that help reduce the risk of your networked systems being compromised.

Sigma Technology uses a suite of powerful penetration-testing tools, included network discovery, network port and service identification, vulnerability scanning, wireless scanning, and application security examination.

Assessment Reporting:

Sigma Technology's confidential assessment report covers the complete security posture of the networks, devices and hosts.
Our report includes the following sections:

- Executive Summary
- Systems and network assessed (IP range, devices and number of hosts)
- Scan test coverage (scope and methodology employed)
- Potential impact of non-assessed hosts
- Ports excluded by client (if any)
- False-Positive (if Any)
- Heuristic vulnerabilities
- Overall Rating and Definitions
- Risk Matrix
- Recommendations for improving Security
- Proposed Mitigations and Workarounds
- Best Practices

Cross Check with NVD (National Vulnerability Database) Published by NIST

Penetration test and vulnerabilities scans are cross checked with U.S Government repository of vulnerabilities database that integrates all US Government publicly available vulnerability resources. This data enables automation of vulnerability management, security measurement, and compliance.

NVD includes databases of security checklists, security related software flaws, misconfigurations, product names, and impact metrics.

Our Penetration methodology and techniques enable organizations to:

- Develop information security assessment policy, methodology, and individual roles and responsibilities related to the technical aspects of assessment

- Accurately plan for a technical information security assessment by providing guidance on determining which systems to assess and the approach for assessment, addressing logistical considerations, developing an assessment plan, and ensuring legal and policy considerations are addressed

- Safely and effectively execute a technical information security assessment using the presented methods and techniques, and respond to any incidents that may occur during the assessment

- Appropriately handle technical data (collection, storage, transmission, and destruction) throughout the assessment process

- Conduct analysis and reporting to translate technical findings into risk mitigation actions that will improve the organization's security posture.

Sigma Technology's assessment engineers have significant security and networking knowledge, including expertise in network security, firewalls, intrusion detection systems, operating systems, programming, and networking protocols.

A wide range of technical skill sets is employed to conduct testing in an effective and efficient manner while ensuring minimal risk. Our assessors have skilled in the specific types of techniques such as vulnerability identification and verification, security configuration, vulnerability management, and penetration testing. Our Penetration testing involves issuing real attacks on systems and data, using the same tools and techniques used by actual attackers.

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