

SERVICE BRIEF FOR **PENETRATION TESTING**



Lodestone Penetration Testing thoroughly assesses the effectiveness of your organization's security controls, both internal and external, and identifies weaknesses that could result in a future compromise. We cover both your external network boundary, where all devices and services directly connected and exposed to the Internet reside, and your internal network boundary, where all of your connected devices reside behind a firewall.

Our engineers use industry-standard penetration testing tactics, techniques, and procedures (TTPs) and methodologies to identify vulnerabilities that could be a common entry point for a threat actor, and those that could provide the most information to a threat actor that manages to infiltrate your environment.

BENEFITS

- Reduction of your internal and external attack surfaces by remediating identified vulnerabilities to mature the security posture of your organization.
- Assist your organization with maintaining compliance with a number of business standards and reputations, such as the Health Information Portability and Accountability Act (HIPAA) and the Payment Card Industry Data Security Standard (PCI-DSS).
- Knowledge that will enable you to create an optimized roadmap for allocating your security budget, protecting your company's image and reputation, and communicating the importance of addressing cybersecurity risks to key stakeholders and executives.

OVERVIEW

Internal or external Penetration Testing performed by Lodestone's Offensive Security Services team equips your organization with actionable findings that can be used to strengthen your security posture and reduce your attack surface. Using TTPs actual threat actors use in the wild, the Lodestone's engineers will help you identify vulnerabilities and missing security controls that could put your company at risk of compromise or unauthorized access to internal resources.

We are with you every step of the way to inform you of any critical findings that require immediate action and ensure that testing does not interrupt your critical business functions. We ensure the findings and their impacts are clearly defined for your future remediation efforts.

WHY LODESTONE

Lodestone is a global cybersecurity firm committed to helping clients prevent, investigate, and prepare for security incidents. It was built from the ground up to offer an innovative, behavior-based approach to proactive cybersecurity and digital forensics and incident response (DFIR). We are comprised of top investigative talent and offensive security experts from several of the world's largest cybersecurity firms, as well as military veterans and former members of national security organizations, including the Federal Bureau of Investigation (FBI) and the National Security Agency (NSA). We combine this expertise with our unique understanding of legal requirements through our relationship with our parent company, Beazley, which has been at the forefront of cyber insurance for over a decade. Through this relationship, Lodestone has developed a unique understanding of the intersection between insurance and cybersecurity while preventing, preparing for, and responding to some of the toughest security challenges that industries face today.

Compliance

Since its founding as a subsidiary of Beazley in 2017, Lodestone has offered its customers insight into both cybersecurity and the cyber insurance industry. We help companies align and stay compliant with cyber insurance coverage requirements. In addition, we offer discounts to channel partners to form long-term relationships.

Security Focus

Lodestone's experts live and breathe cybersecurity and are committed to helping customers face some of the biggest challenges of their careers. We do not sell vendor security products – our offerings are purely service-focused, and any third-party tools we recommend are the product of genuine, vendor-agnostic, and tested endorsement, not business deals.

Expertise

Lodestone's approach to Incident Response is to have the top cybersecurity experts in the world, as the lead, and as the touchpoint, when responding to cybersecurity incidents. This is done with the backing of comprehensive, real-time threat intelligence to provide clients with protection across the life cycle of a potential security event or incident.

Tailored Approach

We understand the individual challenges of every situation and consider the human side of the equation, never taking a "one size fits all" approach. We blend design, threat intelligence, and technology with human insights to provide clients with the greatest cybersecurity advantage.

Threat Intelligence

Our deep understanding of threat actor tactics, techniques, and procedures (TTPs) is based on decades of experience in DFIR and the diligent gathering of threat intelligence from all possible sources.

Agility

Time is of the essence before, during, and after an intrusion. We stand ready to move in quickly and effectively at the first sign of an intrusion.

Team Experience

1000+
ENGAGEMENTS

200+ **YEARS**
COMBINED EXPERIENCE

50+
CERTIFICATIONS

Experts Unlike Anyone Else

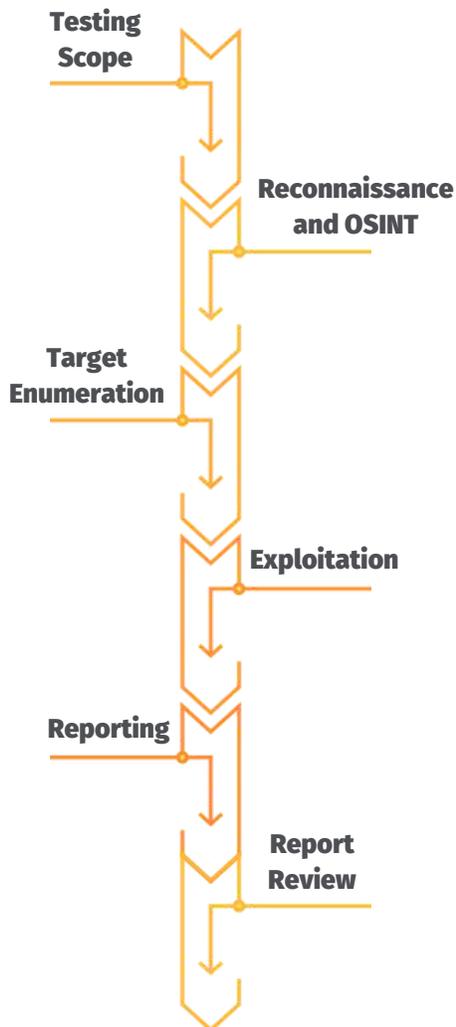
EX- MILITARY
LAW ENFORCEMENT
INTELLIGENCE
TOP CYBER TECH
TOP CONSULTING
FORTUNE 100 ENTERPRISE

Global Presence - NA/Europe



METHODOLOGY

The Penetration Testing is comprised of these primary phases:



- **Testing Scope** – We work with you to determine the scope of the external and internal environments and narrow down what the penetration test will cover. For external environments, this may include email portals, web applications, VPN portals, or file-sharing applications. For internal testing, this may include certain subnets and internal services that will either be in scope or out of scope for testing.
- **Reconnaissance and OSINT** – Lodestone uses automated tools and manual research to gather information passively. Reconnaissance is the first step in vulnerability assessments and penetration tests and is crucial for any adversary seeking entry into an organization. It includes searching for Internet-facing servers, web applications, subdomains, employee information, physical addresses, phone numbers, email accounts, credentials, and any other information that could be used to enter the network.
- **Target Enumeration** – In this stage, testers begin to enumerate the services running on open ports discovered from open-source intelligence (OSINT). These services are researched to gain information from the open service and formulate attack paths and potential methods for exploitation.
- **Vulnerability Detection** – From the engagement scope, different tools are utilized by our engineers to enumerate potential vulnerabilities on externally facing hosts.
- **Exploitation**
 - Findings uncovered from target enumeration and vulnerability detection are tested to see if they can be exploited as they would be by a threat actor. We identify which vulnerabilities are false positives that do not threaten your organization.
 - Lodestone engineers use any successfully exploited vulnerabilities to determine what information they can access and use this access to escalate privileges, exfiltrate data, and pivot to other devices and services.
- **Reporting** – All findings will be compiled into a report that includes details on our methodology and the testing performed, key findings, and recommendations for remediation.
- **Report Review** – We provide our clients at least two weeks to review the reports and formulate any questions or requests for clarification. At the end of every engagement, a report review call is scheduled to ensure that all of your concerns are addressed.

ENGAGEMENT ARTIFACTS

The following artifacts will be obtained by our team as part of the assessment:

- List of internal IP address ranges
- List of external IP address ranges
- Usernames and passwords for credentialed scanning
- Screenshots and information used for deliverables

DURATION AND DELIVERABLES

A penetration test varies in duration based on the size of your environment, the number of systems, and findings, but typically takes two to three weeks. It can be delivered on-premises or remotely.

Lodestone will provide the following deliverables to you as part of the engagement:

	Weekly Status Reporting – Lodestone will provide a weekly or bi-weekly status report to the project sponsor once the kickoff call is complete. Lodestone can accommodate your preferred communications, including via phone call or email.
	Executive Summary Report – Lodestone will provide a high-level report on the engagement, findings, and any recommendations, if applicable.
	Final Report – After the engagement completion, Lodestone will provide a final report that details the engagement, findings, and recommendations for mitigating the findings.

Learn more at www.lodestone.com

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