Security
Testing Services

One of the most critical aspects of a sound cyberdefense strategy is regular security testing. A testing program ensures that your organization understands what data is under its control, how it needs to be protected, what it needs to be protected from, and the extent to which protections installed are functioning as expected. RSI Security tailors security testing measures to the exact needs and means of your organization, automating and optimizing threat and risk assessments.

Why You Need Security Testing

Organizations seeking to protect sensitive data need to be aware of the risks facing it. In particular, you need to understand three variables for full data integrity and security:

- *Vulnerabilities*, or weaknesses and gaps that could be exploited.

- *Threats,* or actors and events that could compromise your data.

- *Risks,* or the dynamic relationships between vulnerabilities and threats.

Understanding these variables requires testing at regular intervals, to establish a baseline of security, along with testing after special occasions, like security breaches.

RSI Security Testing Protocols

RSI Security helps organizations identify, understand, and address the risks facing their data with targeted testing services, including but not limited to the following:

- *Vulnerability assessments,* to spot weaknesses or missing patches.

- *Root cause analyses,* to determine and eliminate causes for threats.

- *Penetration testing,* to simulate an attack—and defense—in real-time

Of these tests, penetration testing provides the most advanced and actionable insights into your security, empowering you to make the most impactful repairs and adjustments.

Security Testing for Regulatory Compliance

Another reason organizations pursue security testing is regulatory compliance. Most regulations require some form of data security audit to achieve compliance. Some also include requirements for threats assessments at regular intervals to maintain compliance over an extended period of time, like PCI's requirements for regular risk scanning. RSI Security is a QSA and ASV certified to run all PCI security testing, along with scans required for several other frameworks (HITRUST, HIPAA, etc.).

RSI Security's Penetration Testing Services

Penetration testing uses offense to bolster defenses, simulating an attack to understand how a real hacker would operate and eliminate any unexpected weaknesses they'd exploit to compromise your data. Typically, penetration tests take two forms: external and internal. The testers begin with no prior knowledge of your system, to gauge its outermost scanning and defense capabilities, or they start from a privileged position within it, to gauge your internal stopgaps and mitigation protocols.

Beyond these general approaches, penetration tests can also be applied to a variety of systems:

Hardware Pen Testing

Test security across all personal computers or your other physical endpoints.

Web App Pen Testing

Test cryptographic controls across web apps to secure use regardless of location.

Mobile Pen Testing

Secure devices owned by the organization or by its personnel (as in BYOD).

Cloud Pen Testing

Ensure that your cloud infrastructure is keeping all your hosted data safe.

Network Pen Testing

Test connections between systems, across wireless or other kinds of networks.

Firewall Pen Testing

Harden your first line of defenses against repeated, advanced attack patterns.

Penetration Testing for Regulatory Compliance

Penetration testing is also critical for compliance; as with all security testing, many regulatory compliance frameworks require penetration testing at regular intervals. For example, PCI DSS Requirement 11 specifically requires penetration testing to occur at six-month intervals and after any major changes to network segmentation controls. Maintaining PCI compliance thus requires establishing a regular penetration testing routine. RSI Security will help your organization meet its PCI or other regulatory requirements with penetration testing tailored to specific frameworks.

About RSI Security

RSI Security has partnered with countless organizations to develop pen testing and general security testing services to meet and exceed their security needs. Our experts will first assess your defense systems and the data security requirements applicable to protected information classes, then devise multiple rounds of testing to identify, analyze, and eliminate any weaknesses in your architecture.