

# Security Assessments

Understand your risk.



Whether helping to establish a baseline with assessments or through advanced initiatives such as user behavior analytics and network deception techniques, the Alchemy **Protect** Practice guides organizations through their security journey.

Alchemy's **Protect** Practice focuses on Workspace Security, Data Protection and Identity Management with an emphasis on delivering security solutions that deliver maximum protection and little or no end-user friction.



**Let the transformation begin.**  
[www.alchemytechgroup.com](http://www.alchemytechgroup.com)  
[protect@alchemytechgroup.com](mailto:protect@alchemytechgroup.com)



**ALCHEMY**  
TECH GROUP

Alchemy Technology Group is an industry leading IT advisory, consulting and reseller firm focused on end user experience, security, cloud and automation.

## Assessment Overview

Alchemy's security assessments measure a company's security posture against industry best practices, compliance requirements and industry frameworks. An assessment identifies vulnerabilities and measures the effectiveness of the organization's controls, which can include people, process and technology vulnerabilities and span across the entire business. It will help you determine risk, which is the potential for loss if a vulnerability is exploited. Guidelines and standards for security assessments are published by organizations such as National Institute of Standards & Technology (NIST), SANS Institute and PCI Standards Council.

## Types of Assessments

- Vulnerability Assessment** – Identifies weaknesses that can be exploited
- Risk Assessment** – Quantifies risk and potential loss based on asset value
- Compliance Assessment** – Confirms compliance with required standards, such as HIPAA or PCI Penetration
- Testing** – Simulates an internal or external attacker against the company's network

## Assessment Benefits

- A security assessment ensures that you are aware of security risks within your environment. You can't fix a problem if you don't know it exists. It will also serve as your initial baseline so you can track positive progress in your security program.
- Assessments can help to document the progress being made to protect the company.
- Due diligence, which is the effort made by a company to avoid harm as determined by a reasonable person. If your company encounters a security breach, your company's legal exposure and financial penalties can be impacted by the due diligence you've shown in defending against threats. A security risk assessment is the first step in showing due diligence. The second step is making an effort to address the vulnerabilities that were found.
- Maintain compliance. Some industries require security assessments as a condition of compliance. The Security Rule of the Health Insurance Portability and Accountability Act (HIPAA) is one example.

## Outcome

We will provide a detailed security assessment document complete with a roadmap to improve your security posture.

# Security Assessments

Line Card

## Alchemy Security Assessment Line Card

### Regulatory & Framework

NIST CSF Assessment  
HIPAA Assessment  
C2M2 Assessment

### Cloud and Architecture

AWS Security Assessment  
Azure Security Assessment  
Security Architecture Assessment

### Red Team Services

#### Network Security

Internal Penetration Test  
External Penetration Test  
Wireless Penetration Test  
Firewall Assessment  
Network Architecture Assessment  
Host Penetration Assessment  
Active Directory Assessment

#### Application Security

Web Application Penetration Assessment  
Web API Penetration Testing  
Mobile Application Security Assessment  
Thick Application Assessment  
Web Services Security Assessment  
Enterprise Mobility Mgmt Assessment

#### Social Engineering

Phishing Assessment  
Physical Penetration Testing  
Social Engineering (Phone) Assessment  
OSINT/Reconnaissance Assessment

### Combined

Goal-Oriented Red Team Assessment  
Threat Modeling & Architecture Assessment  
Security Technology Assessment  
IT Security Gap Assessment

### Incident Response & Forensics

Compromise Assessment  
Malware Assessment  
Incident Readiness Assessment  
Forensic Capabilities Assessment  
Security Tools Assessment

### Industrial Control Systems

CS Compromise Assessment  
ICS Security Assessment  
Building Automation Assessment  
ICS Security Technology Assessment

### IoT/Embedded Systems

Embedded System Security Assessment  
Automotive System Assessment  
Medical Device Security Assessment  
Clinical Application Assessment  
Med Secure Assessment Framework

