

Security Testing Capabilities

We uncover the hidden risks traditional testing misses by combining our elite cyber operators with proprietary innovations and AI-driven intelligence to continuously reduce your security exposure.

Our diverse testing capabilities include:

✓ Network Penetration Testing

Identify vulnerabilities, misconfigurations, and other risks that could lead to compromise. We emulate real-world attacks across your internal and external networks.

✓ Cryptography Testing

Assess how encryption is applied across your environment to identify weak implementations, poor key handling, and insecure protocols that could allow attackers to access or manipulate sensitive data.

✓ Application Penetration Testing

Uncover hidden dependencies, tampered packages, covert data flows, and supply chain threats from source code to production.

✓ Red Teaming

Engagements are built around the scenarios you care about most to test how your organization withstands targeted attacks across systems, people, and processes.

✓ Hardware & Integrated Systems Testing

Assess device integrity, firmware authenticity, and operational trust across the supply chain lifecycle via hardware breakdown and our proprietary chip transmission analysis.

✓ Purple Teaming

Combine real-world attack simulation with blue team collaboration to validate controls and improve detection and response in real time.

✓ AI & LLM Systems Testing

Test your AI and LLM systems against real world adversarial manipulation to identify data exposure, abuse paths, and control weaknesses.

✓ Operational Technology (OT) Testing

Emulate real-world adversaries targeting OT environments to uncover risks across industrial systems while prioritizing safety and stability.

✓ Cloud Penetration Testing

Evaluate key controls, identify meaningful security gaps, and uncover high-impact vulnerabilities, misconfigurations, and other risks across your cloud environments.

✓ Facility Security Testing

Emulate real-world adversaries across physical, digital, hardware, and human vectors to uncover cross-domain attack paths within facility environments.



**Secure Your Environments.
Outpace the Adversary.
OnDefend.com**

Consulting Services

OnDefend goes beyond testing to help you build, measure, and mature a resilient security program. This means aligning strategy, governance, and compliance to reduce risk and prepare your organization for what comes next.

Our Consulting Services Include:

Compliance Readiness

We assess compliance readiness by identifying gaps, aligning controls to regulatory requirements, and preparing organizations to confidently pass audits.

Risk Assessments

We evaluate security controls, governance, and operational readiness to deliver a prioritized roadmap for reducing risk and strengthening your security posture.

Risk, Governance & Compliance

We help organizations build structured, governed, and resilient security programs aligned to measurable risk reduction and applicable standards.

AI Deployment & Controls

We assess AI systems, guardrails, governance, and privacy controls to identify AI-specific risks and support secure, responsible adoption.

Post-Quantum Readiness

We assess cryptographic exposure, identify quantum-related risks, and provide a prioritized roadmap for transitioning to quantum-resistant security.

Security Program Maturity Assessments

We evaluate cybersecurity program maturity, benchmark capabilities against leading frameworks, and deliver a roadmap for measurable security improvement.

Tabletop Exercises

We conduct realistic, scenario-driven exercises that test how executives, technical teams, and partners coordinate and respond during cyber incidents.

Virtual CISO (vCISO)

We provide on-demand executive cybersecurity leadership, delivering strategic direction, risk oversight, and compliance guidance without the cost of a full-time CISO.

The OnDefend Difference

We uncover the hidden risks traditional testing misses by combining our elite cyber operators with proprietary innovations and AI-driven intelligence to continuously reduce your security exposure.

OnDefend.com

