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.

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

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.

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

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

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.

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.

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

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

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