

AI Pentest

Detailed scope of work:

Nº	Service	Scope of work
1	Passive reconnaissance	Data collection using AI agents from publicly available sources: • Collecting information from the Internet, basic network queries; • Collecting domain information: WHOIS, DNS, IP, SPF/DKIM/DMARC, etc., identifying subdomains; • Reviewing metadata and HTML comments; • Identifying applications on the web server: Wappalyzer, BuiltWith, WhatWeb, Nikto; • Taking “fingerprints” of web applications and frameworks.
2	AI Active Reconnaissance	Obtaining information about the target system: • Port scanning: Nmap, Masscan, Nessus; • Banner grabbing.
3	Automatic scanning	Automated scanning using AI agents – identifying and assessing vulnerabilities in a manner similar to traditional tools (OWASP ZAP, Burp Suite, Nessus, Nikto, Acunetix, Nuclei, Naabu) using autonomous AI agents.
4	Testing by AI agents	Technical testing conducted by AI agents that fully simulate the actions of an experienced hacker, following a detailed checklist (including coverage of the OWASP Top 10): • SDLC configuration and deployment management. • Identity management: Verification of roles, registration, and account monitoring. • Authentication: Verification of password policies, lockout mechanisms, bypass attempts, etc. • Session management: Verification of cookies, CSRF, login bypass, etc. • Input validation: Search for injections (SQL, LDAP, XML, OS, NoSQL), XSS. • Error handling: Error analysis, tracing.

№	Service	Scope of work
	Testing by AI agents	Testing internal accounts and authorization domains using AI agents: • Authentication: Verifying authentication mechanisms, including: JWT (JSON Web Tokens), OAuth, Basic Auth. • Authorization: Testing for privilege escalation and bypassing authentication logic. • Client-side logic: Testing interactions with the client-side. • Business logic: Verifying the correct implementation of business logic, request routing, integrity checks, file uploads, and data flow bypasses. CRLF Injection and HTTP Request Testing Smuggling Desync Attacks Testing File Upload Attacks: • Checking restrictions on file types and content • Checking for bypassed checks • Checking file metadata processing RCE, RFI, LFI, and XXE Testing: • Identifying injection points • Testing server behavior when executing damaging commands Password Attacks: • Checking configuration files • Searching for configuration files • Brute-force attacks (weak passwords) Testing internal and external APIs: • Checking internal APIs for vulnerabilities that could be exploited to attack the internal infrastructure; • Checking authentication mechanisms and their resistance to attacks; • Injection protection testing; • Testing HTTP methods (including REST and other APIs); • Testing API responses to non-standard HTTP methods; • Testing for potential bypasses of resource access controls
5	Report	Preparation of a report that includes a detailed description of vulnerabilities and recommendations for addressing them.