

selfhack\*

# BENCHMARK REPORT '25



## Unveiling The Future of Autonomous Penetration Testing

Traditional security tools fall short against evolving threats. Discover how SelfHack AI redefines penetration testing with human-level intelligence, unmatched accuracy, and cutting-edge automation

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# Introduction

“ Artificial intelligence is the future of cybersecurity. SelfHack AI\* stands at the forefront of this future “

As digital threats become increasingly complex and frequent, traditional penetration testing methods and tools fall short. Signature-based tools and manual testing are ineffective against rapidly evolving attacks. SelfHack AI fills this gap as an autonomous, human-level thinking penetration testing solution powered by artificial intelligence.

The boundaries of human intelligence will be surpassed by artificial intelligence, with cybersecurity as its first frontier.

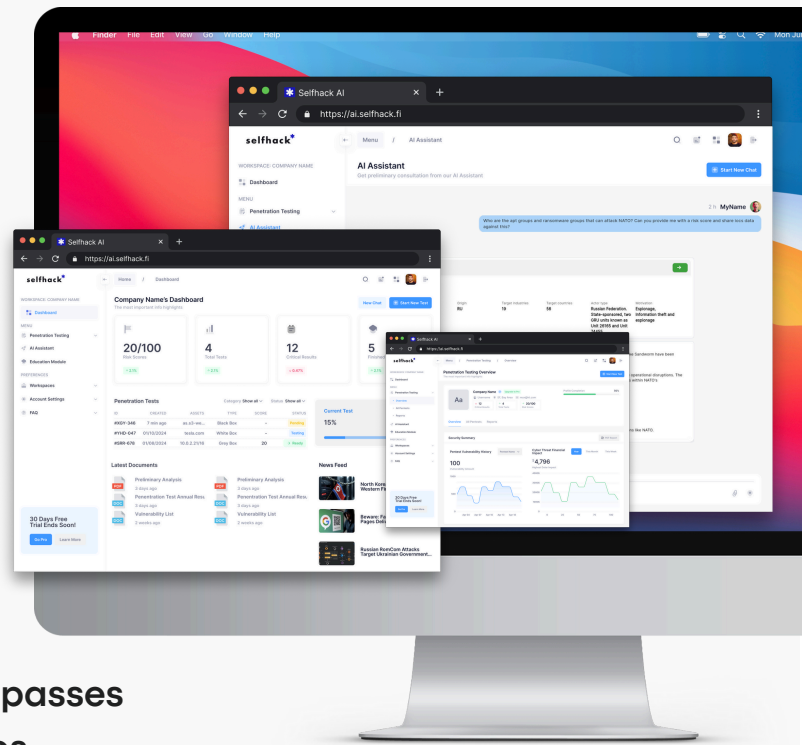
## Why is SelfHack AI Different?

Unlike traditional tools, **SelfHack AI\*** not only identifies known threats but also uncovers unknown and logic-based vulnerabilities:

- Identifies new threat types through machine learning.
- Continuously learns and evolves by analyzing every attack.
- Simulates attacks tailored to real-world scenarios.
- Provides code and server-level solutions with compliance reports aligning with international standards (ISO 27001, PCI DSS, GDPR, etc.).



# Benchmark Scope



The SelfHack AI benchmark encompasses over 10,200 real-world vulnerabilities collected from:

- CVE
- NVD
- HackerOne Bug Bounty Open Source Reports
- ExploitDB
- Bugcrowd Bug Bounty Open Source Reports
- OWASP Top 10
- Mitre Attack
- All Clear Web and Dark Web Source etc.

## Platform-Specific Success Rates:

**99%** Web Applications

**96%** Mobile Applications

**98%** APIs



# Detailed Breakdown



Category	True Positive	False Positive	Exploit Success Rate	Automation
Web	99%	1%	95%	98%
Mobile	96%	4%	93%	96%
API	98%	2%	94%	97%



SelfHack AI’s superior performance is underpinned by five key features:

- **Pattern Recognition:** Understands new threat types and proactively responds to attacks.
- **Dynamic Exploit Simulation:** Automatically adapts payloads and attack methods to the target.
- **Root Cause Analysis:** Identifies and reports vulnerabilities based on root causes rather than symptoms.
- **Automated Remediation:** Offers code and server-level recommendations, supporting all major programming languages.
- **Continuous Learning:** Learns from each test, building resilience against future threats.

# Real-World Use Cases

## Cyber threats don't wait—neither should your defenses.

Companies across industries trust Self Hack AI\* to uncover hidden vulnerabilities, automate remediation, and elevate their security posture. From cloud security to e-commerce platforms, see how AI-driven penetration testing is transforming cybersecurity.

### CloudFirm CEO – Cloud Service Provider Security

"Manual testing could not keep pace with the rapid threats we encountered on our cloud infrastructure. SelfHack AI automatically discovered unnoticed vulnerabilities within our cloud servers, providing configuration recommendations that enhanced our overall security posture and operational compliance."

### E-Commerce Platform CTO – Online Platform Security

"SelfHack AI identified critical SQL Injection and IDOR vulnerabilities etc. within seconds on our e-commerce platform and provided immediate remediation solutions. This significantly boosted customer trust and elevated our security practices to international standards."

### MSSP Security Director – Managed Security Services

"We performed extensive penetration tests in Belgium, France, and Germany for our diverse customer base, delivering customized, localized, and comprehensive reports in multiple languages, thanks to SelfHack AI. This automated and intelligent solution allowed us to effectively address each customer's unique security needs and significantly enhance the quality of our MSSP services."



*\*These are real scenarios from our customers who have experienced the power of SelfHack AI \* firsthand. Due to NDAs, we can't disclose their identities, but their stories speak for themselves—showcasing how AI-driven penetration testing is transforming cybersecurity across industries.*



# Competitor Comparison

Tool	True Positive	False Positive	Exploit Success Rate	Automation
SelfHack AI	99%	1%	95%	98%
Tool #1	85%	15%	70%	60%
Tool #2	88%	12%	75%	65%
Tool #3	88%	12%	70%	60%
Tool #4	84%	16%	65%	55%
Tool #5	91%	9%	75%	40%



To ensure fairness and maintain professionalism, we've anonymized competitor names while providing descriptive labels that reflect their functionality. This comparison is based on publicly available data and internal testing, allowing readers to focus on performance insights rather than brand names. Our goal is to highlight how different security solutions measure up without bias. [To Learn More Contact Us](#)

1. *Leading Web Security Scanner* – A commercial tool widely used for detecting vulnerabilities in web applications, particularly known for its automated scans and ease of use.
2. *Cloud-Based Security Platform* – A security suite offering website protection, malware scanning, and penetration testing, commonly used by SMBs and e-commerce businesses.
3. *Enterprise Vulnerability Scanner* – A well-known vulnerability assessment tool designed for enterprise environments, focusing on identifying security gaps in networks and systems.
4. *Open-Source Security Scanner* – A free and open-source vulnerability scanning framework, often used by security professionals for detecting weaknesses in IT infrastructure.
5. *Advanced Web Security Testing Tool* – A powerful tool favored by penetration testers for manual and semi-automated web security testing, particularly for complex vulnerabilities.

# Conclusion: Secure the Future with Selfhack AI\*

In today's volatile threat landscape, reactive security measures are no longer enough. Threat actors evolve rapidly, and only proactive defense strategies can ensure your organization stays one step ahead.

## Why Selfhack AI\*?

Selfhack AI revolutionizes cybersecurity by automating and streamlining periodic penetration testing, offering you:

- **Proactive Security:** Identify vulnerabilities before they're exploited.
- **Autonomous Testing:** Save time and resources with automated, AI-driven testing tailored to your systems.
- **Comprehensive Insights:** Receive detailed reports, actionable recommendations, and targeted training modules.
- **Continuous Protection:** Stay protected against emerging threats with ongoing testing and risk scoring.

## How It Works:

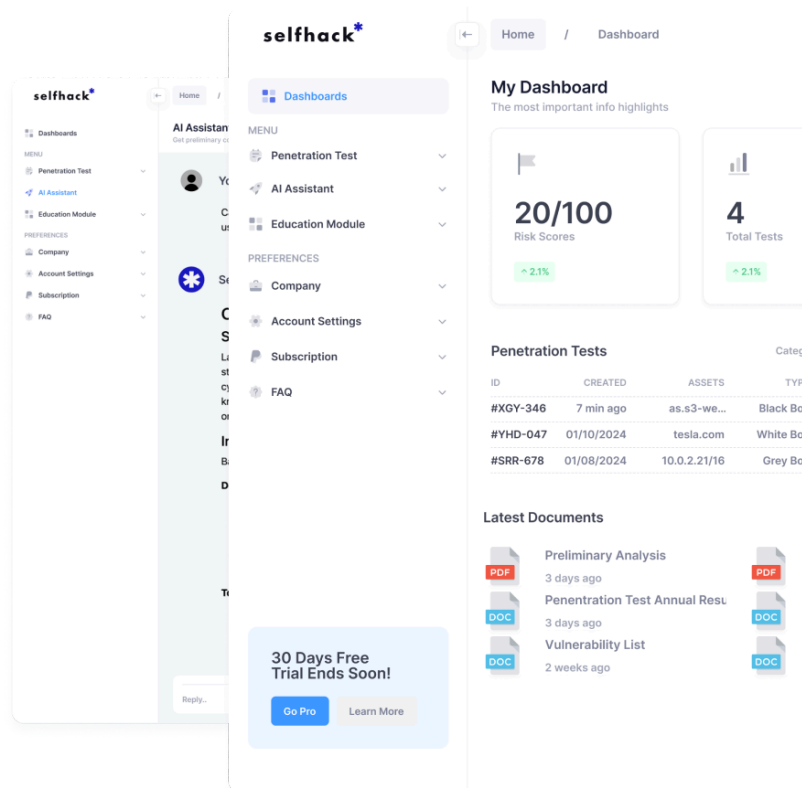
Selfhack AI empowers your security teams by performing:

1. Automated penetration tests across Web, Mobile, API, VoIP, and more.
2. AI-generated risk assessments with statistics and mitigation strategies.
3. Education modules to strengthen your team's expertise.



## Take Control Today with Selfhack AI!

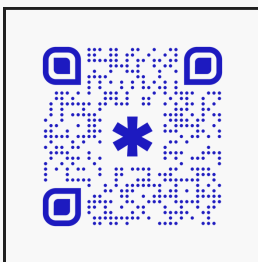
Don't wait for threats to become crises. By integrating Selfhack AI into your cybersecurity strategy, you'll strengthen your defenses, meet compliance requirements, and build trust with stakeholders. Visit [www.selfhack.fi](http://www.selfhack.fi) to learn more about Selfhack AI and take the first step towards autonomous security today!





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# Contact Us\*



## Explore the Future of Cybersecurity with Selfhack AI\*!

We appreciate your interest in Selfhack AI. As a special offer, the first 15 companies to contact us using the code 'SAFE25DEMO' will receive a free demo of our platform!

Scan the QR code to get in touch, and our team will guide you through the next steps to secure your business. Don't miss this opportunity to experience proactive cybersecurity at its best!

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