



### Traditional Penetration Testing Challenges

In a dynamic threat landscape, traditional penetration testing is reaching its limits. The key challenges are:

- **Lack of Agility:** Long lead times and lengthy execution slow down development cycles, leading to increased exposure.
- **Cost and Resource-Intensive:** High baseline costs coupled with a severe shortage of available experts.
- **Lack of Scalability:** True **continuous testing (Continuous Security) is virtually impossible** to achieve relying solely on manual resources.
- **High Follow-up Overhead:** Reproduction, documentation, and remediation often require additional, expensive service resources.
- **Highly Sensitive Nature:** Penetration testing is a highly sensitive process that requires absolute trust in both the personnel and the tools involved.



### INVAIDER

InvAlder is the state-of-the-art solution suite for future-proof penetration testing. We combine **human expertise with the scalability of artificial intelligence** using natural language.

- **Holistic Approach:** **Full coverage** of the penetration testing lifecycle, from reconnaissance to automated reporting.
- **Dialogue-Driven:** Humans direct and decide, while the AI agent supports, analyzes, and executes. The level of automation is fully customizable.
- **Diverse Use Cases:** Designed for in-house IT teams for self-assessment, as well as for penetration testing service providers as a **massive efficiency multiplier**.
- **Data-Driven Precision:** Access to over **600 IT security tools and the latest data sources** to ensure rapid deployment, absolute reproducibility, and maximum accuracy.



### Value Proposition

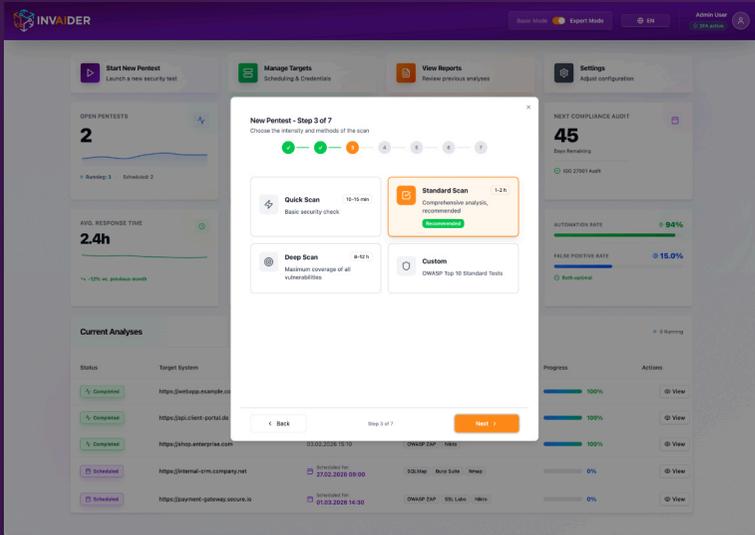
Why InvAlder sustainably strengthens your company's resilience:

- **Digital Sovereignty:** Developed, operated, and hosted in Germany for the European market.
- **Independence:** Frees your organization from the bottleneck of scarce cybersecurity expertise and limited resources.
- **Speed:** **Available 24/7** to deliver fast, validated results at the push of a button.
- **Continuous Security:** Enables the transition from traditional, point-in-time assessments to true continuous testing.
- **Human-Machine Partnership:** Delivers consistent quality, an adaptive learning system, and complete traceability at maximum cost-efficiency.

# The "Human-in-the-loop" Workflow

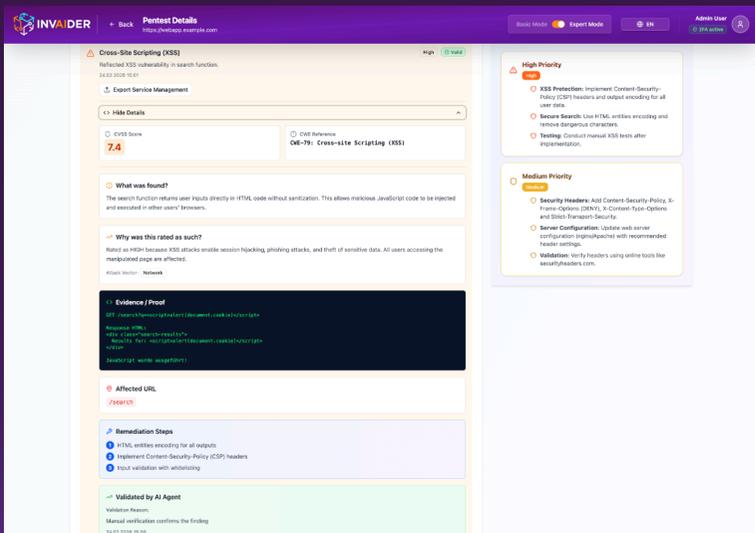
Far more than a basic scan—this is an agentic workflow guided by intelligent conversational control and validated by AI.

## Test Configuration



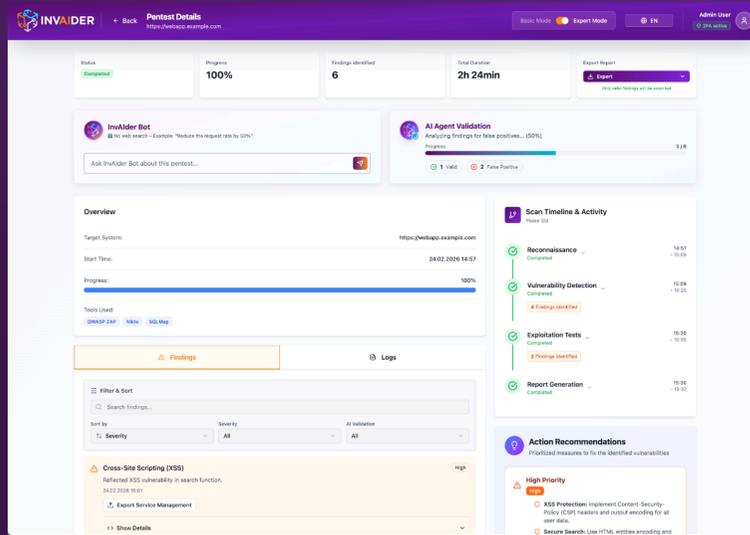
Ideal for pre-go-live checks, new releases, ad-hoc responses to security alerts, or continuous monitoring.

## Finding Validation



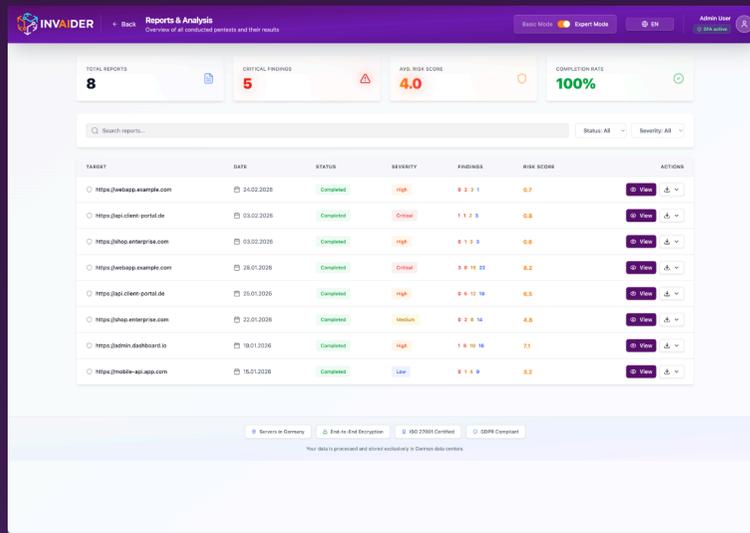
The AI agent automatically validates all findings to ensure zero false positives, while human experts remain in the loop for deeper review and final assessment.

## Execution, Tracking & Optimization



Monitor agents in real-time via the interactive dashboard. Adjust the active assessment on the fly through dialogue, or analyze the results as they emerge.

## Automated Reporting



Automated generation of audit-ready reports, detailed technical findings, and CVSS risk assessments. Findings can be seamlessly transferred as data objects to downstream systems.

## Target Markets & Market Differentiation

- In-House IT Teams: Empowered to conduct continuous, autonomous testing (Continuous Security).
- Penetration Testing Providers: An intelligent "exoskeleton" for massive efficiency gains—designed to augment human experts.
- The InvAlder Difference: An agentic approach rather than basic scans; intelligent support rather than human replacement.
- Digital Sovereignty: 100% EU data residency and hosting.

## Key Features & Security

- Cloud-Native & API-First: Built from the ground up for the cloud with seamless integration capabilities.
- Modular & Agentic: Flexible, agent-driven architecture tailored to your needs.
- European LLMs: Powered by European language models (local/on-premise LLM deployment supported).
- Enterprise Architecture: Multi-tenant design secured by state-of-the-art encryption.
- Compliance: Fully auditable to meet the most stringent security and regulatory standards.