# Vellox Reverser™

A **Booz Allen**® Product

Outpace the threat.
Reverse your unknowns.

Vellox Reverser™ is an AI-first, cloud-native malware reverse engineering product designed to radically speed up threat response. Today's malware doesn't wait. It evolves in real time—gaining ground before cybersecurity teams can react. Spending weeks to counter threats is not an option.

Booz Allen Vellox Reverser changes the game. Vellox Reverser automates the process, completing an exhaustive analysis of complex and evasive malware to deliver deep insights and actionable reports with comprehensive countermeasures in just minutes.
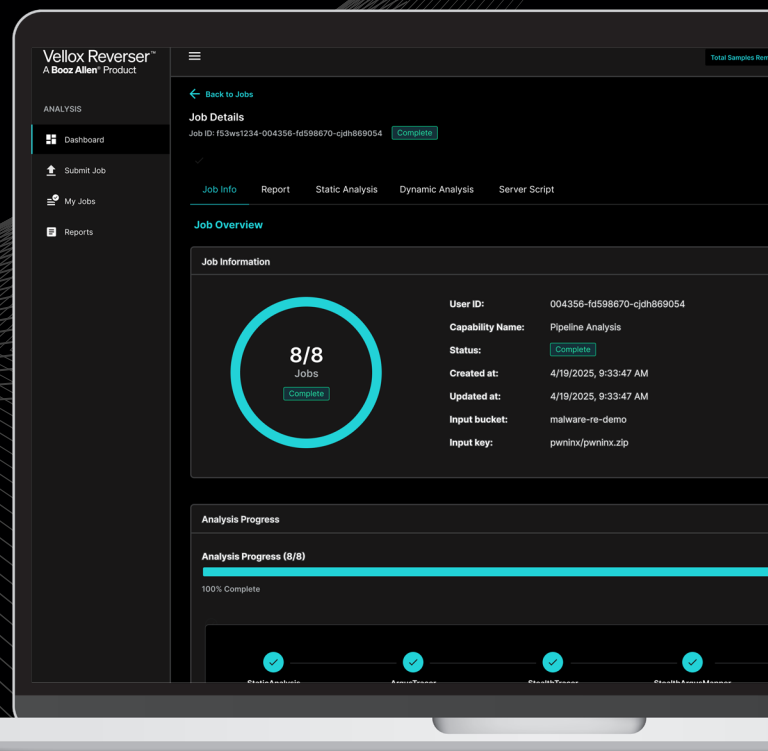
Product Highlights

Function-Level Reverse Engineering at Core

> Analyzes malware down to individual functions to identify evasive or embedded logic.

> Supports runtime hot patching to bypass anti-analysis behaviors (e.g., sleep timers, anti-VM).

> Uses machine learning to identify patterns in function behavior that align with known malware techniques and TTPs.

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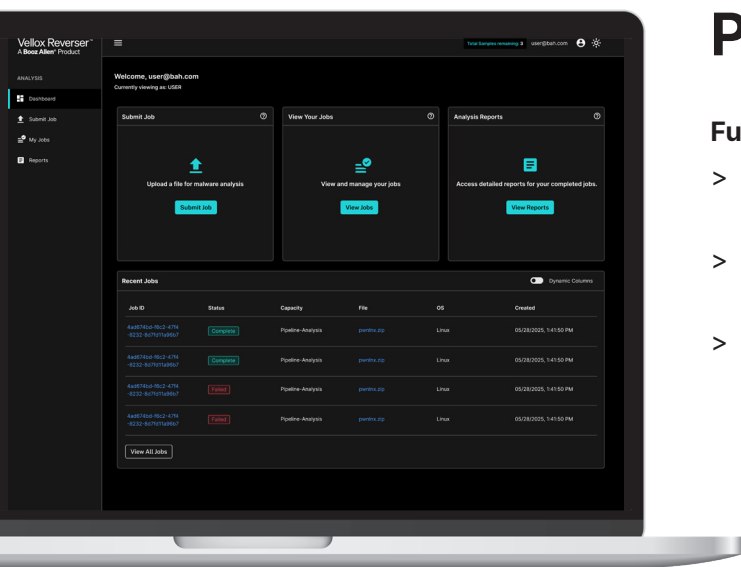
Agentic AI-Powered Orchestration

> Uses intelligent agents to determine best tools to run, when to re-analyze a sample, and how to modify behavior based on results.

> Automates dynamic submission across multiple reverse engineering tools and sandboxes without manual effort required.

> Adapts strategy based on real-time execution results and sample characteristics.

Live Binary Patching & Execution Shaping

> Applies real-time patches to force full malware execution.

> Bypasses conditional logic, staged payloads, and evasion techniques.

> Unlocks full behavioral visibility that would be missed in traditional sandboxing.

Automated Analysis Reporting & Threat Intelligence Generation

> Provides executive plain-language reports with an overview of what the malware does and how dangerous it is.

> Produces technical reports with detailed breakdowns of system behaviors, anti-analysis techniques, MITRE ATT&CK mapping, and notable functions.

> Integrates comprehensive countermeasures into your environment for immediate threat hunting and defense.

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About Booz Allen

Booz Allen is the advanced technology company delivering outcomes with speed for America's most critical defense, civil, and national security priorities. We build technology solutions using AI, cyber, and other cutting-edge technologies to advance and protect the nation and its citizens. By focusing on outcomes, we enable our people, clients, and their missions to succeed—accelerating the nation to realize our purpose: **Empower People to Change the World®.**

With global headquarters in McLean, Virginia, our company employs approximately 33,400 people globally as of June 30, 2025, and had revenue of $12.0 billion for the 12 months ended March 31, 2025.
NYSE: BAH

Key Advantages

Machine Speed Outcomes: Performs exhaustive and fully automated malware analysis—traversing every code path.

Action-Driven Reports: Performs in-depth analysis and delivers actionable reports in minutes—equipping security operations center (SOC) teams to neutralize threats fast.

Force Multiplier: Helps cybersecurity teams work faster to clear the backlog of suspicious files, while freeing up more time to dig deeper into the most complex samples.

Expert-Trained Intelligence: Delivers world-class malware analysis at machine speed and scale—built by the same experts trusted to protect critical intelligence missions.

Adaptive Threat Response: Learns from malware patterns and improves over time to successfully reverse engineer even the most complex and evasive new strains.

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