

# PRIME\_AI Professional

Autonomous Infrastructure & Intelligence Suite

Version 6.5.0 Deployment Report

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# 1. Executive Summary

PRIME\_AI Professional (formerly SentinelX) is a next-generation Enterprise IT Management solution. It combines real-time infrastructure visibility with autonomous security intelligence and automated validation protocols. Version 6.5 introduces the "Automation Lab," allowing for human-free diagnostic testing across the entire stack.

## 2. Technical Stack (A-Z)

- Backend: Node.js (Express) - Handling real-time API requests and service orchestration.
- UI: Vanilla HTML5 / CSS3 (Neon-Glassmorphism) / JS (GSAP Animations) - For a premium, zero-dependency frontend.
- Intelligence Core: Python (Flask) + PyTorch + Transformers - Powers the PRIME\_AI Local LLM.
- Database: SQLite (Dev) / PostgreSQL (Prod) via Sequelize ORM - Resilient data persistence.
- Real-time: Socket.IO - Bi-directional streaming for logs and system metrics.
- Reporting: PDFKit & XLSX - Automated stakeholder documentation.
- Process Management: Systeminformation & Multer - Hardware monitoring and log ingest.

## 3. Module Breakdown

### Home & Welcome

The hub for branding and quick navigation to specialized modules. v6.5 features the new Autobot-inspired PRIME core branding.

### System Overview

Real-time WebSocket charts visualizing CPU, RAM, and Network trends with 0.1ms ingest latency.

### Log Analysis

Neural-assisted log triage. Identifies high-risk anomalies automatically using localized NLP patterns.

### Automation Lab (v6.5 New)

Predefined testing suites: API Stress, Security Scans, DB Integrity. Runs autonomously and generates diagnostic reports.

### Security Pulse

Global threat monitoring with radar visualizations. Tracks regional risk vectors and anomalous signatures.

### Audit Vault

Searchable historical archive of every system event. Immutable storage for compliance and investigation.

## 4. Future Updations (Roadmap)

- v7.0: 3D Topology Visualization (WebGL) - Immersive infrastructure maps.
- Voice Command Core: Integrated PRIME\_AI voice-to-action protocols.
- Distributed Agent Fleet: Native Go-based agents for cloud-scale monitoring.
- Heal-On-Detection: Autonomous self-healing scripts triggered by AI confidence scores > 95%.

INTERNAL DOCUMENTATION: PRIME\_AI Professional is a sovereign entity project. All screenshots and data contained within are simulated for security validation purposes.