



# AI-Based Security To Protect Edge Distributed Environments in Real-Time

Red Hat Software Partner



“Securing Edge environments calls for a distinct approach to ensure thorough protection.

While cloud-based security solutions tend to be resource-intensive and inadequate for the edge, organizations can rely on AI-powered autonomous solutions specifically designed to operate inside Edge network in real time. AI EdgeLabs safeguards the Edge infrastructure and bolsters resilience against sophisticated and decentralized attacks, enabling organizations to stay one step ahead of potential adversaries.”

Inna Ushakova

AI EdgeLabs' CEO and Founder



Technology Partner



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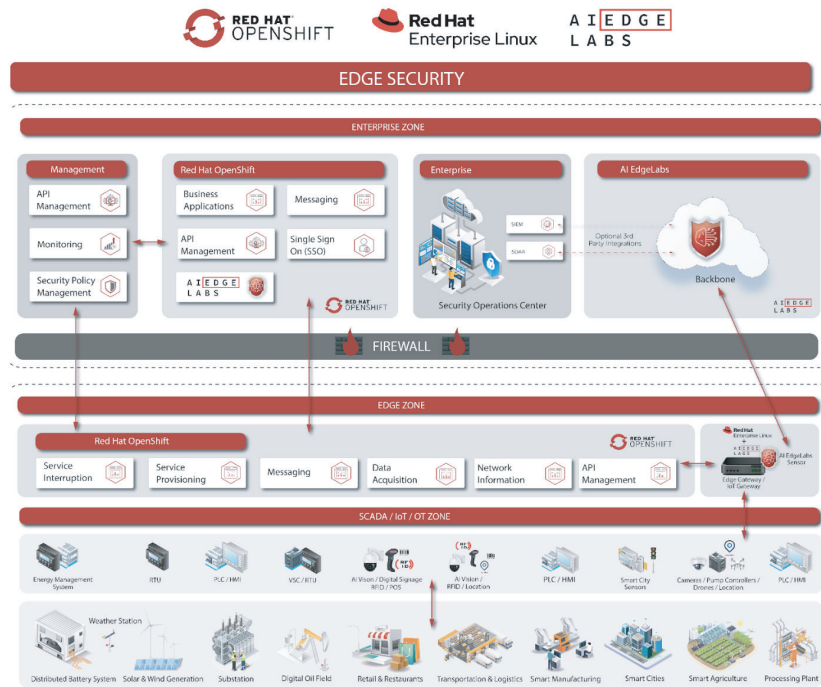
AI EdgeLabs is an AI-powered end-to-end software-based cybersecurity solution for Edge. Leveraging the power of AI and ML, our solution immediately identifies and mitigates threats even with intermittent connectivity and limited bandwidth. AI EdgeLabs is optimized for improved performance, runtime cost, and edge-native security. It can be deployed to multiple physical and virtual Edge environments in a matter of hours via **Red Hat OpenShift or Red Hat Device Edge** to apply real-time cyber security capabilities to critical distributed infrastructure at scale.

## Executive summary

Cybersecurity solutions designed for endpoints or cloud environments are not well-suited for Edge infrastructure. Those solutions often require significant processing power, network bandwidth, and stable connectivity, which may not be available at the Edge. As a result, they introduce latency and significant security gaps. Security solutions specifically designed for the Edge are vital. AI EdgeLabs is a software-based solution that provides AI-driven multi-layered protection for Red Hat-powered Edge infrastructure in real-time, helping organizations ensure the security of mission-critical systems with improved performance and total cost of ownership vs. traditional approaches to security.

## Product profile

AI EdgeLabs is a software-based security solution that provides AI-driven multi-layered protection for Red Hat-powered Edge distributed infrastructure in real-time, helping organizations ensure the cyber resilience of their mission-critical and revenue-generative assets and overall business continuity.



AI EdgeLabs is an innovative Edge-native threat detection and response engine, which sits directly on the near-edge servers powered by Red Hat OpenShift for Edge or far-edge gateways and endpoints powered by Red Hat Enterprise Linux for Edge or Red Hat Device Edge.

“With AI EdgeLabs, organizations can confidently embrace the benefits of edge computing while maintaining a strong security posture as it is optimized for high-security performance and efficiency.”

**Virgil Renz**  
Chief Innovations Officer

## Resources

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Links to sales-focused content  
<https://edgelabs.ai/solution/>

The EdgeLabs Sensor is a Red Hat-certified proprietary network telemetry, and threat prevention software agent. It holds the AI inference that constantly checks network and device behavior via pre-trained and self-learning ML and RL algorithms and continuously prevents and blocks threats in real time, including various types of intrusions, ransomware, network threats, MITMs and others with the 99.9% accuracy.

## Product benefits

AI EdgeLabs is specifically designed for the Edge to ensure:

- ▶ **Easy deployment** within hours **and interoperability** with existing security systems
- ▶ **Lightweightness** – no more than 4% CPU
- ▶ **High scalability** across all distributed infrastructures
- ▶ **Bandwidth efficiency**
- ▶ **Zero hardware footprint** – software-based containerized application.

## Use cases

AI EdgeLabs' edge security solution provides real-time threat detection and prevention on top of the Red Hat distributed computing platform, ensuring the security and integrity of edge computing environments.

- ▶ **Network-based asset discovery and monitoring**
- ▶ **Autonomous AI-based threat detection & response:** real-time threat detection and response, automated response and remediation, adaptive and self learning capabilities for improved detection and response.

## Learn more

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<https://edgelabs.ai/>

## About Scalarr

AI EdgeLabs was founded in 2017 with deep-rooted expertise in Artificial Intelligence and cybersecurity. We embody innovation tackling some of the hardest challenges with a crack team of passionate professionals.

AI EdgeLabs is proud to work with leading technology companies across the industries, such as energy, oil & gas, healthcare, transportation & logistics, smart cities, retail and others. Our customers feel confident with real-time end-to-end security solutions and trust our in-line protection for distributed Edge environments.

## About Red Hat

Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.



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