

A Retail Leader's AI-Driven Path to Unified Cyber Defense

Solutions Leveraged: Tenable (VM), Wiz (CSPM, CWPP), Microsoft Entra (CIEM), BigID (DSPM), Cloudflare (WAF), Microsoft 365 (Email & EDR)

About the Retail Company

The retail company is a global brand with a large-scale digital presence. It manages complex operations across e-commerce platforms, supply chains, and customer data.

Challenges

Disjointed Security Ecosystem

Multiple tools (e.g., Tenable, Wiz, Microsoft 365 Email, and Defender for Endpoint) operated in silos, creating gaps in their defense strategy.

Limited Threat Correlation

Endpoint, cloud, and network threats lacked contextual integration, delaying remediation and increasing exposure risks.

Compliance Pressures

Ensuring PCI-DSS compliance while managing an evolving threat landscape posed significant challenges.

Data Exfiltration Risks

Existing solutions struggled to efficiently detect and mitigate potential exfiltration attempts.

Solution

The retail brand implemented Tuskira to unify data from 150+ fragmented tools into an AI-driven security mesh. Key capabilities included:



1. Cloud Threat Defense

- Correlated cloud vulnerabilities from Wiz and Tenable with endpoint insights from Defender.
- Identified misconfigurations and prioritized remediation to close high-risk gaps.



2. Data Exfiltration Defense

- Enhanced visibility by integrating Cloudflare (WAF) and BigID (DSPM) telemetry.
- Detected potential infiltration and exfiltration paths and deployed policy adjustments proactively.



3. Endpoint, Ransomware, and Phishing Threat Mitigation

- Merged endpoint data from Defender with cloud, network, and email threats.
- Enabled proactive responses to endpoint-based attack vectors.
- Enabled proactive responses to email-based attack vectors



4. Agentic AI Advantages

- **Real-Time Exploit Validation:** Simulated attack paths to identify exploitable vulnerabilities, ensuring proactive risk mitigation.
- **Autonomous Response Capabilities:** Automatically neutralized detected threats and adjusted security policies to prevent recurrence.

Implementation Process

Quick Deployment

Tuskira was fully operational within 30 days, with minimal disruption to ongoing operations.

Seamless Integration

Integrated with existing tools like Tenable, Wiz, and Microsoft 365 via secure APIs, without additional agents.

Tailored On-boarding

Provided customized configurations to address the retail brand's unique threat landscape.

"Tuskira brought together our disconnected tools, giving us a unified defense system that closed critical gaps and made our existing investments far more effective."

— CISO, Retail Customer

Results

Improved Endpoint Protection

Correlated endpoint threats with cloud and network vulnerabilities enable faster attack response.

Stronger Email Security

Integrated Microsoft 365 email data, reducing phishing detection time and decreasing the likelihood of compromise.

Optimized Defense Strategy

Unified telemetry from disparate tools to identify misconfigurations and policy violations, cutting remediation times in half.

Enhanced Risk Prioritization

Adversarial exposure analysis highlighted critical risks, ensuring focused remediation efforts.

Conclusion

The retail company unified its fragmented security ecosystem into a cohesive and preemptive defense system. With faster threat responses, reduced exposure risks, and streamlined compliance, Tuskira enables the company to protect sensitive customer data, strengthen its security posture, and maximize the value of existing tools.

Request a Demo

Streamline your security operations and enhance threat defense! Go to [tuskira.ai/demo](https://www.tuskira.ai/demo) to schedule a personalized demo of Tuskira and see how our platform can optimize your security stack.

Website: www.tuskira.ai
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