



BOSTON APPLICATION SECURITY CONFERENCE

The bearer of this certificate attended the following presentation on **Saturday, April 5, 2025, from 11:30 AM to 11:55 AM** at the Microsoft Technology Center, 5 Wayside Road, Burlington, MA 01803.

TALK - Uncovering 100K Security Violations: Strengthening Application Security through Unified Deployments, XRAY Integration and Automated SBOM Generation – Hariharan Ragothaman

Agenda: In today's application security landscape, navigating complex deployment environments often feels like facing an onslaught of cyber adversaries. Much like Batman's trusty utility belt—equipping with the perfect gadget for every challenge—integrating robust security into your SDLC; transforms your pipeline into a resilient defense against vulnerabilities and breaches. This talk deep dives into a comprehensive case study where we revolutionized our security posture. If you are a software engineer operating in the DevSecOps space, this talk aims at providing a high-level architecture for a unified end-to-end CI/CD pipeline that can help deploy services to production faster with greater confidence and better visibility, while being secure, compliant and deployed in a standardized manner. Hope this serves as a compelling blueprint for organizations looking to bridge the gap between innovative security practices and scalable, high-quality software delivery. Top takeaways: • **Integration Strategy:** How embedding XRAY into our unified deployment pipeline transformed our vulnerability management process. • **Operational Impact:** A deep dive into the metrics—over 100K security violations detected, reduced deployment times, and enhanced quality control—that validate the effectiveness of our approach. • **Automated Compliance:** The role of daily SBOM generation in maintaining transparency, ensuring regulatory compliance, and promoting rapid vulnerability remediation. • **Lessons Learned:** Challenges encountered during integration, the iterative improvements made along the way, and best practices for adopting a similar framework in diverse operational settings. Notes: 1. The aim is to show practical, architecture-level guidance that viewers can adapt. Additional code samples and diagrams will be provided as supporting materials. 2. This session is geared toward professionals with an intermediate to advanced understanding of DevSecOps practices, while still providing a foundational overview for newcomers 3. Beyond just theory, we'll delve into practical tooling: incorporating OWASP-based scanning tools for code and dependency checks, embedding code-quality linters into the pipeline, and adopting runtime security scanning to prevent vulnerabilities from slipping into production. We'll examine how OpenTelemetry can be used for distributed tracing, structured logging, and metrics collection, ensuring that each deployment is both transparent and auditable. 4. This session will provide the high-level guidance and practical insights

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