

Case Study 8: Web App Vulnerability Scanning and Secure Access Coverage (Online retail end customer)

Objectives: Deploy and configure web app scanning to enhance vulnerability visibility, secure authenticated areas, and empower internal teams with governance capabilities.

Delivery Format/Duration: Remote/1 week

Client Overview

Leading cybersecurity firm, publicly-traded

End Customer Overview

Online Retailer, the vendor's end customer and a leader in high-performance ecommerce, received deployment and enablement support through our team as part of the vendor's platform rollout. With a growing number of customer-facing and internal apps across development and production environments, Online Retailer needed better visibility into application-layer vulnerabilities.

This engagement focused on deploying a WAS (Web App Scanning) tool as part of their broader vulnerability management platform, aligning tool capabilities with their existing infrastructure, operational responsibilities, and security goals.

Engagement Objectives

- Deploy Web App Scanning within Online Retailer's existing Vulnerability Management ecosystem
- Scan up to 10 web applications to provide a baseline of vulnerability posture
- Tune and optimize 3 selected applications for in-depth, high-fidelity scanning
- Enable internal stakeholders to manage, schedule, and interpret scan results
- Configure appropriate authentication, access roles, and operational governance



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Strategic Priorities

- **Operational Scanning Capability:** Online Retailer wanted to immediately operationalize Tenable WAS with the ability to run credentialed and unauthenticated scans across multiple environments.
- **Authenticated Access Coverage:** Some applications required Selenium-based login flows to access protected content. Online Retailer emphasized securing authenticated areas as part of the scan scope.
- **Internal Ownership Enablement:** The team prioritized training and RBAC (Role-Based Access Control) setup to empower InfoSec, DevOps, and QA stakeholders with self-service scan management and visibility.
- **Scan Optimization:** Reducing false positives and ensuring complete scan coverage for multi-layered web applications was critical for Online Retailer's lean security team.
- **Platform Integration and Continuity:** Ensuring that all scanning tools were properly deployed, secured, and documented for continuity and future auditability.

Approach

Our team executed the deployment on behalf of the cybersecurity vendor, ensuring their platform was properly integrated and operationalized by the end customer. Our consultants delivered the deployment in alignment with a four-phase service model:

Phase 1: Preparation and Planning

- Conducted a pre-engagement call to verify prerequisites such as user access, scanner connectivity, and firewall exceptions.
- Gathered initial scan targets and prioritized up to 10 business-critical applications across environments (Dev, QA, Prod).
- Reviewed login types, identifying apps requiring Selenium scripts versus form or cookie-based authentication.
- Validated that two on-prem scanners were pre-deployed and operational.

Phase 2: Initialization and Scanning

- Validated connectivity to Vulnerability Management Tool and integration of WAS scanners.

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- Configured Role-Based Access Control (RBAC) including Admin, Scan Operator, and Basic roles to reflect Online Retailer's security hierarchy.
- Executed Quick Scans on five key applications using optimized templates to evaluate:
 - Component vulnerabilities
 - HTTP security headers
 - SSL/TLS configurations
 - OWASP (Open Web Application Security Project) Top 10 risks
- Selected three applications for in-depth scanning and configured Overview Scans using detailed sitemap analysis.

Phase 3: Tuning and Optimization

- Performed scan tuning and configuration on three applications using Selenium and form-based login
- Optimized crawler behavior, login session tracking, and scan scope to improve efficiency and reduce noise.
- Reviewed authentication regexes, session verification, and scan exclusion settings with Online Retailer engineers.
- Provided recommendations for scheduling and scan frequency based on deployment cadences (e.g., weekly for test, monthly for production).

Phase 4: Documentation and Knowledge Transfer

- Delivered a final engagement document with:
 - Full list of scanned URLs and scan types (quick vs. in-depth)
 - Authentication configuration by app
 - Recommendations for RBAC, scheduling, and maintenance
 - Guidance on leveraging Tenable dashboards and exports (PDF, CSV, JSON (JavaScript Object Notation), etc.)
- Aligned scan reporting with Online Retailer's operational workflows, including future integrations into CI/CD (Continuous Integration / Continuous Delivery) and change windows.

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Results & Impact

- **Operational Scanning Achieved:** The organization now actively scans key applications with both unauthenticated and credentialed profiles.
 - **Security Coverage Improved:** Apps protected by login flows are now included in the vulnerability management lifecycle.
 - **RBAC Successfully Implemented:** Admins, operators, and basic users have defined access levels to perform their duties without overprovisioning.
 - **Scan Quality Enhanced:** After tuning, scan noise was reduced and critical plugin families were prioritized.
 - **Documentation Delivered:** Online Retailer has a blueprint for expanding WAS coverage and maintaining the platform internally.
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End Customer Feedback

“The engagement was professional, well-paced, and packed with actionable insights. We now have a clear path forward for managing application risk at scale.”

— **Cybersecurity Team Lead**, Online Retailer



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