



Unwrapping SBOMs for knowing, Managing & Reducing Risk of Software Supply Chain



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Attack Surface Management

Open-Source Software Vulnerabilities

The Toll on Cybersecurity Teams

79%

Of software running on servers is open-source

96%

Of first-party (homegrown) software contains open-source components

40+%

Contain high-risk factors such as exploitable vulnerabilities

52%

Of enterprises spent more than a month remediating Log4Shell

Remediation Gaps

In Software Supply Chain Risk

52%

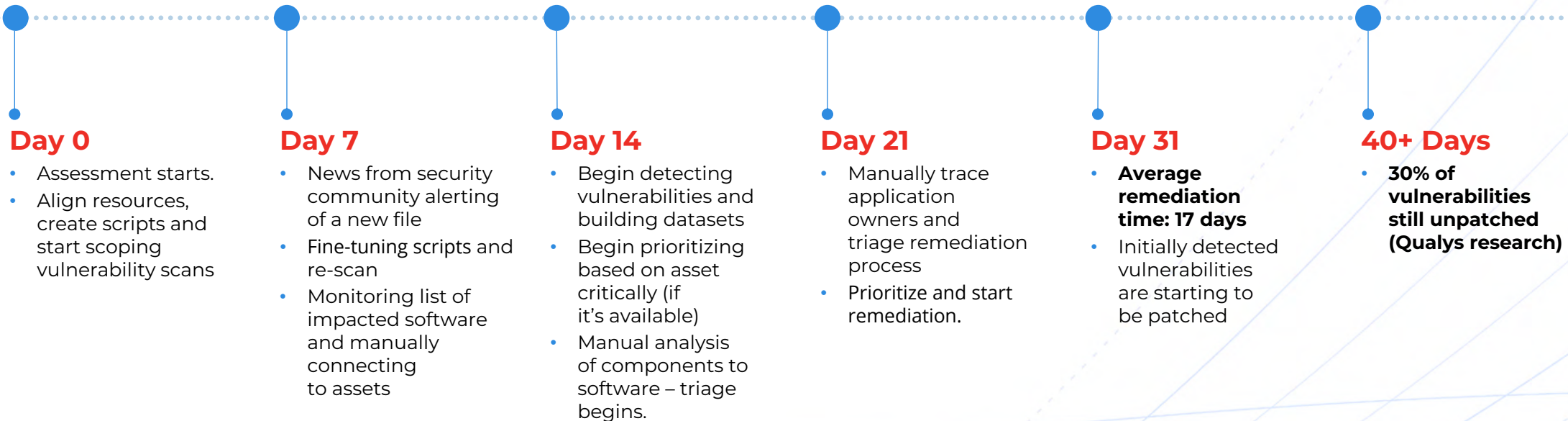
Of teams took more than one month to remediate Log4Shell.

Why?

- ❌ **No catalog** of all software components
- ❌ Limited SBOMs from **third-party apps**
- ❌ Difficult to ingest & correlate SBOMs from **first-party apps**
- ❌ **Limited risk assessment** at runtime
- ❌ Manual remediation without **business context**

Typical Remediation Timeline

For an Open-Source Component Vulnerability such as Log4Shell



Supply Chain Risk Management Must Be Proactive and Continuous

Existing Solutions

DevSecOps (CI/CD)

Repository Assessment



Runtime Security

Production Environment



**Software Builders
(DevSecOps)**

- ✓ Internal Developers
- ✓ Software Publishers

**Software Consumers
& Operators**

- ✓ Corporate IT, Security, Risk & IT Ops
- ✓ Vulnerability Management Teams

Gaps in Software Supply Chain Risk Management

With Available Solutions

DevSecOps (CI/CD)

Repository Assessment



Covers internally developed apps



Difficult to track production drift – blind spots in production environment

Runtime Security

Production Environment



Covers major technologies in production to confirm vulns



Lack of correlation with SBOMs / Apps.
No business context (App Name, Owner...)

Lack of integration between DevSecOps and Runtime Security

Why Focus on SBOM?

How Does It Help?

“SBOMs provide increased transparency, provenance, and speed at which **vulnerabilities can be identified and remediated.**”

- National Institute of Standards and Technology (NIST)

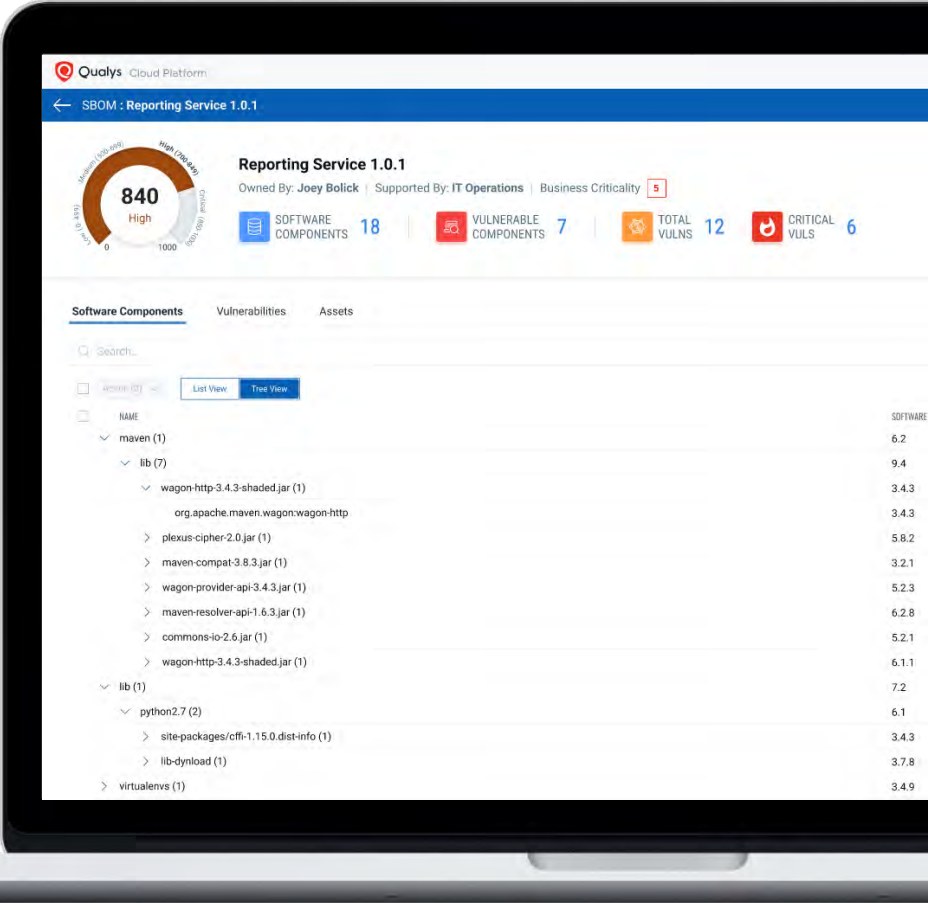
Qualys SBOM Risk Analysis

Track all SBOMs in a single place, analyze software component vulnerabilities and measure impact to your production environment

01 Single SBOM repository for third-party software & first-party apps

02 Continuous visibility of all software components Vulns in production

03 Centrally prioritize TruRisk of your entire Software Supply Chain, with Business & Asset Context





Demo

**Measure, Communicate & Reduce Risk of Your
Software Supply Chain**

Reduce the Software Supply Chain Risk

Respond immediately to zero-day vulnerabilities



Detection time
14 Days

.....● 1 Day



Triage & Prioritization time
17 Days

.....● Hours or Couple of Days



End-to-end Response
31+ Days

.....● 3-7 Days

Qualys CyberSecurity Asset Management (CSAM)

With External Attack Surface Management



Inventory your full IT ecosystem

Automatically identify all IT assets, whether on-perm, mobile, clouds, containers, OT and IoT for a complete, categorized inventory



Detect inventory security gaps

Know when unknown devices connect to the network, unauthorized software is detected, or required security software is missing; and detect end of life for software and hardware



Report and respond to risks

Create asset security health reports for PCI-DSS and FedRAMP, get automated, pre-defined alerts and take response actions like uninstalling unauthorized software



Scale effortlessly with VMDR

Execute scripts at scale across the enterprise and orchestrate scans, through one-click automated workflow with Qualys VMDR



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