Open Source Management zonder omkijken

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Logic Solutions

- Static Code Analysis
- Test Automation
- MISRA®-C Checkers
- Architectural Analysis
- Application Lifecycle Management
- **Software Composition Analysis**

- Flash Management Software
- High-Performance File Systems
- Embedded In-Memory Database Management
- UEFI BIOS & Bootloaders

- Computer Modules
- Boundary Scan Testing
- Device Programmers
- Connectors
- SBC
- Development Kits

- Model Driven Software Engineering
- Embedded GUI Development
- JTAG Debuggers
- Intel IDE’s
- CI/CD Build Time Optimization

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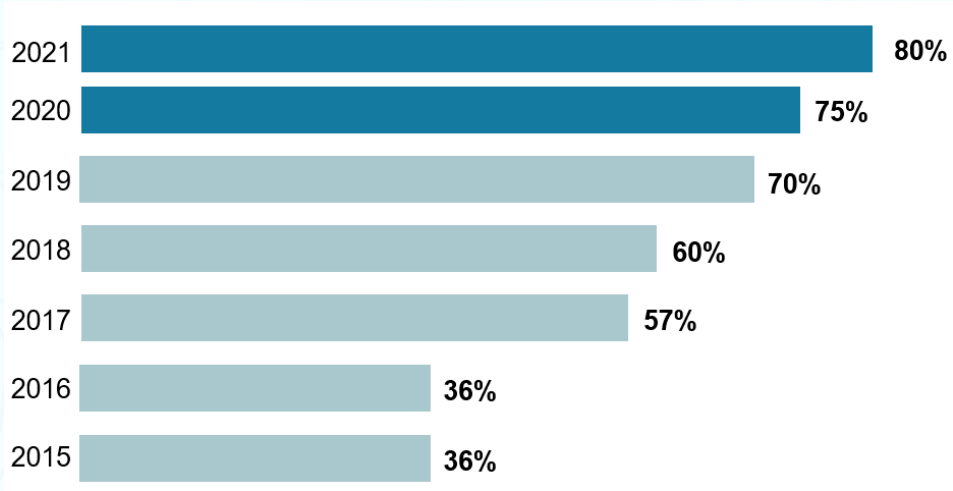
The Problem with Open Source

60% to 80% of an average app's code base is comprised of open source you didn't write,

But **you own** managing the risks



Source: Synopsys OSSRA reports, 2015 through 2021

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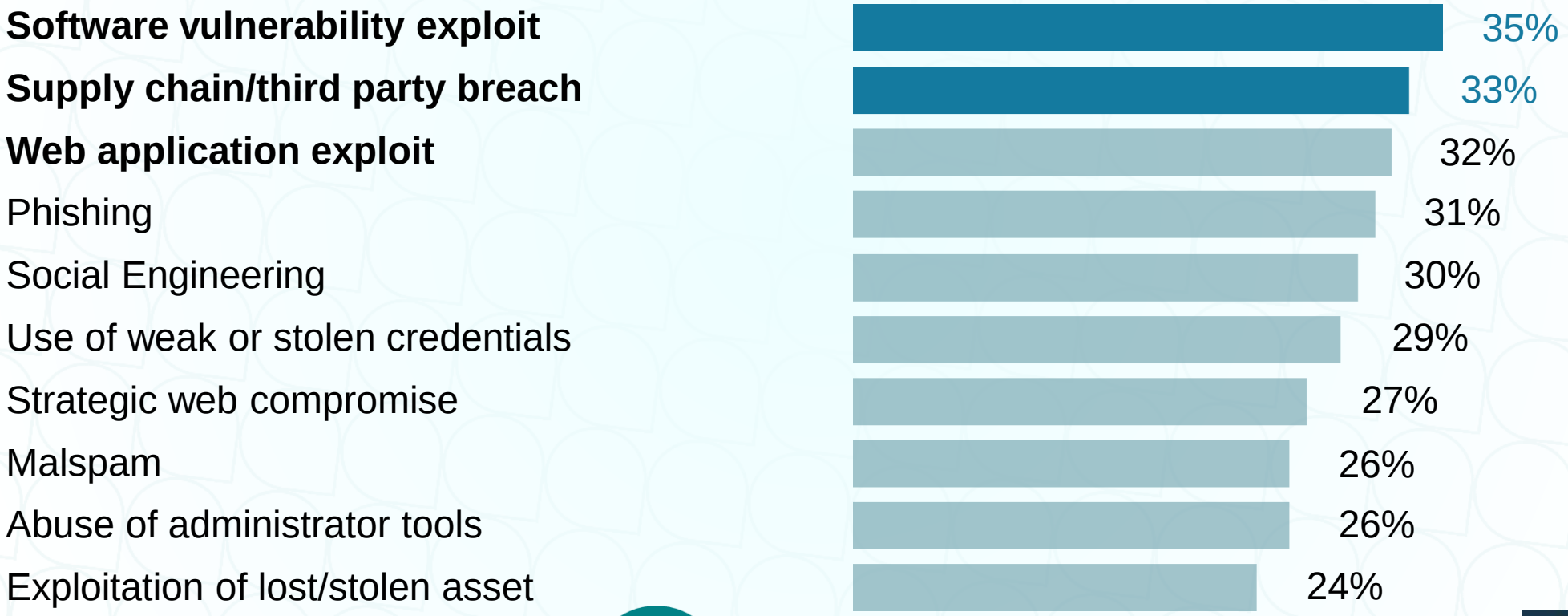
Today's reality: Attackers Target Applications

How was the external attack carried out?



Source: Forrester Analytics Business Technographics Security Survey, 2021
Base: 530 Security decision-makers with network, data center, app security, or security ops responsibilities who experienced an external attack when their company was breached

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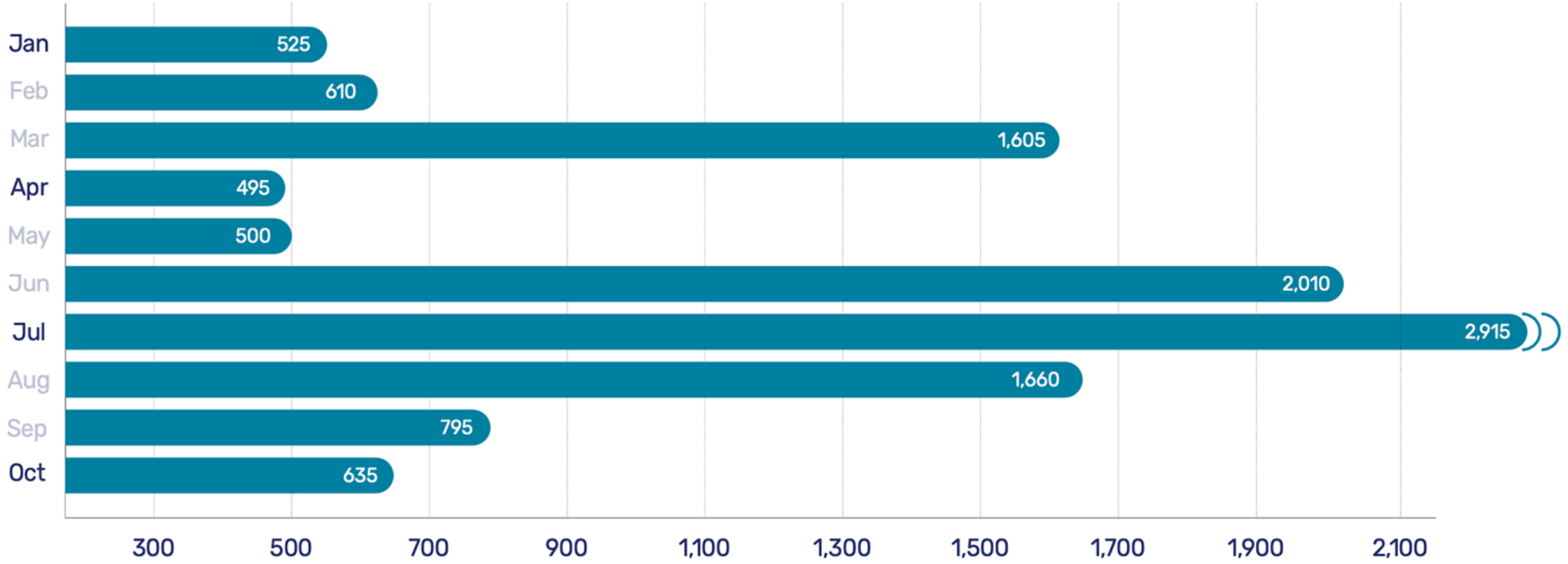
Malicious Open Source Packages Are Growing Fast

2022 growth of malicious packages across npm and Rubygems



Source: 2022 Mend Open Source Risk Report

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Identify and Fix OSS Vulnerabilities

- Manual research
- Build automation tools
- Apply security patches promptly
- **Software composition analysis (SCA)**

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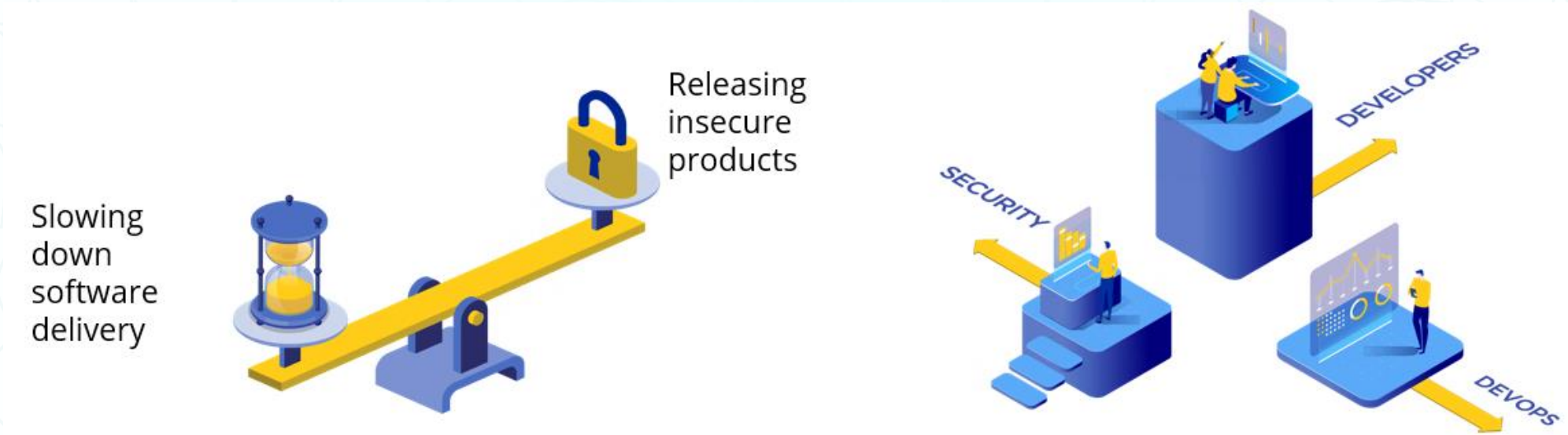
Developers Shouldn’t become Security Experts

- Growing friction – DevOps, security, and developers are not on the same page
- Security by exception, not interruption



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4 Main Challenges Managing Open Source Risks

1. Knowing which open source components you are using
2. Ensuring up-to-date and accurate risk info about open source inventory
3. Filtering and prioritizing which issues need action
4. Choosing which remediation actions to take

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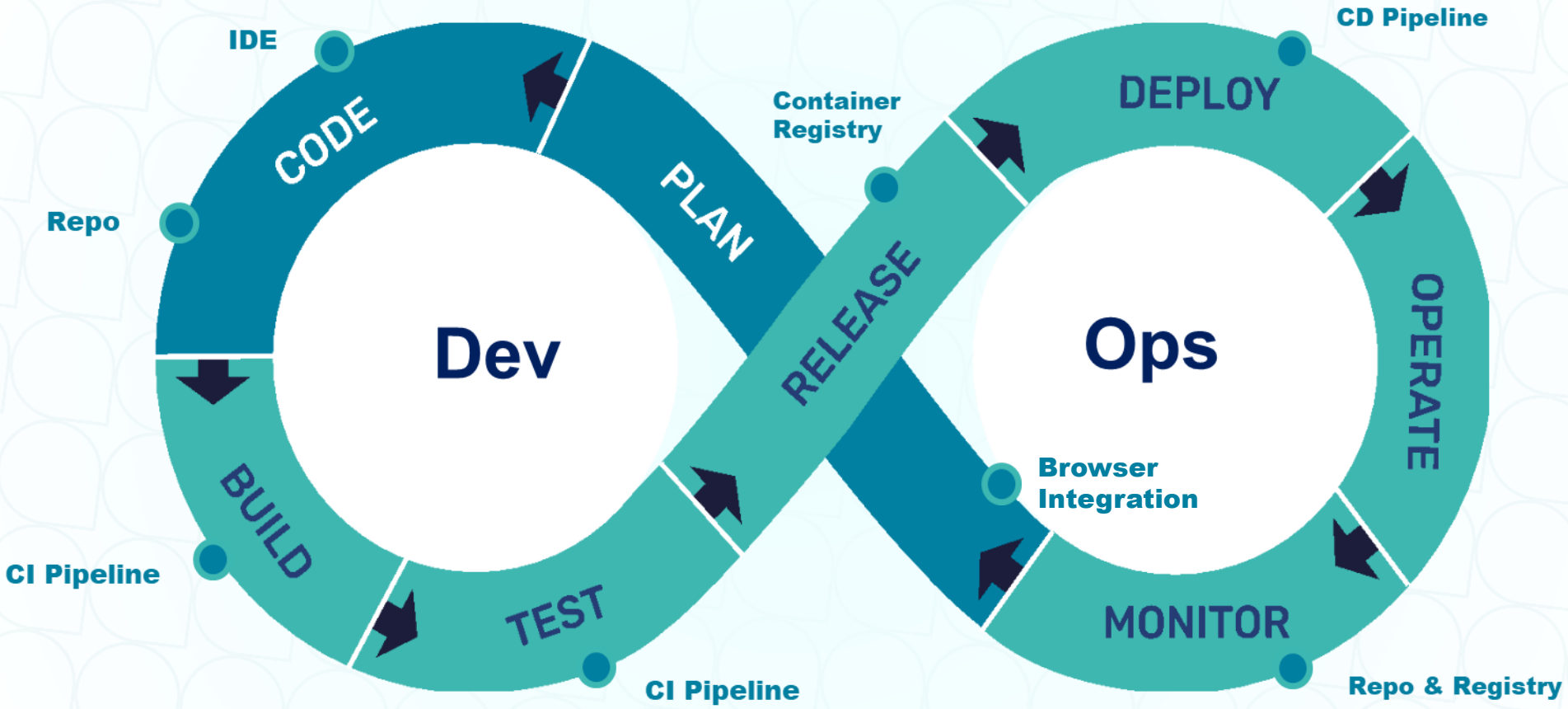
Shift-left Principle



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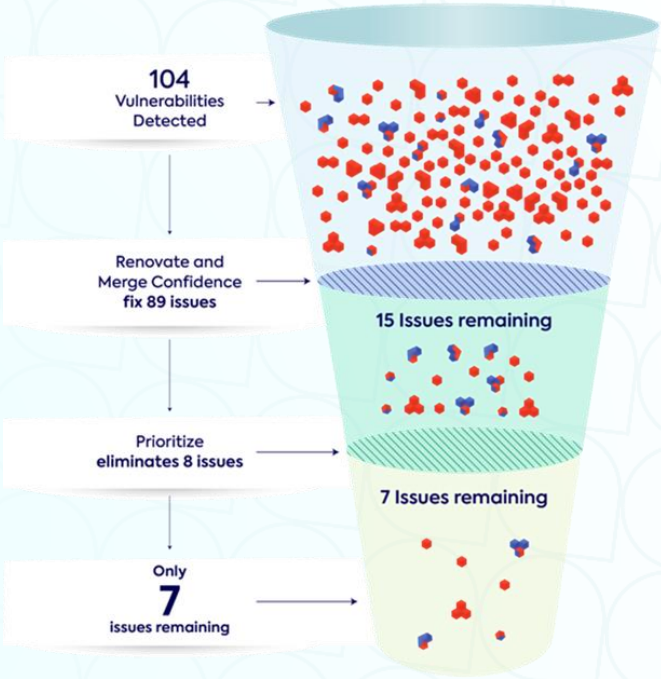
The Mend Approach



Legacy security tools
Focus on **detection**

- X Tell developers about everything that's wrong
- X Make dev responsible for all remediation
- X Make developers leave their native environment
- X Security backlog continues to grow

Mend
Focus on **remediation**

- ✓ Alert developers to newly introduced vulns
- ✓ Automate remediation — we do the research
- ✓ Developers never leave their familiar tools
- ✓ MTTR reduced, backlog reduced

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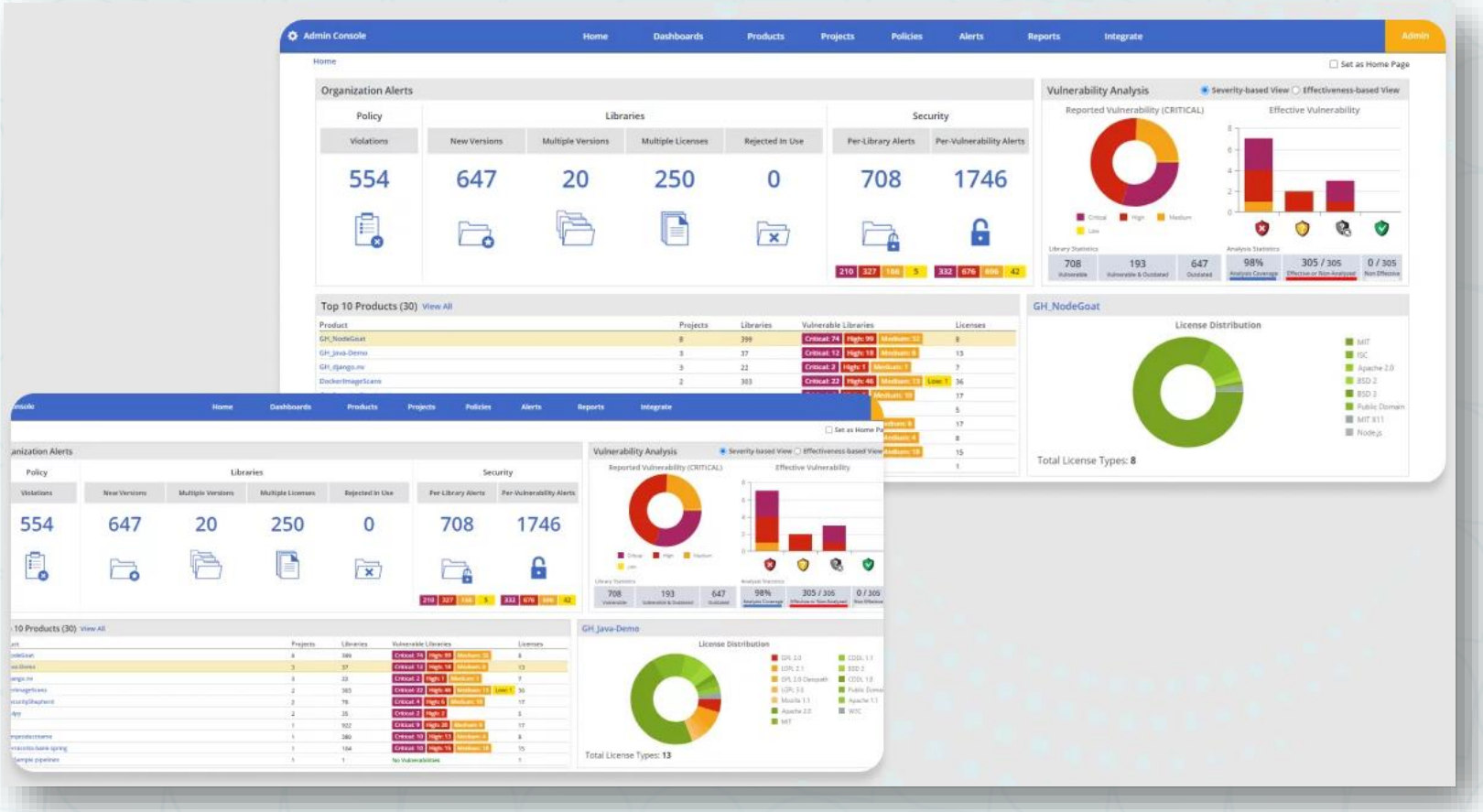
MEND Application Security Platform



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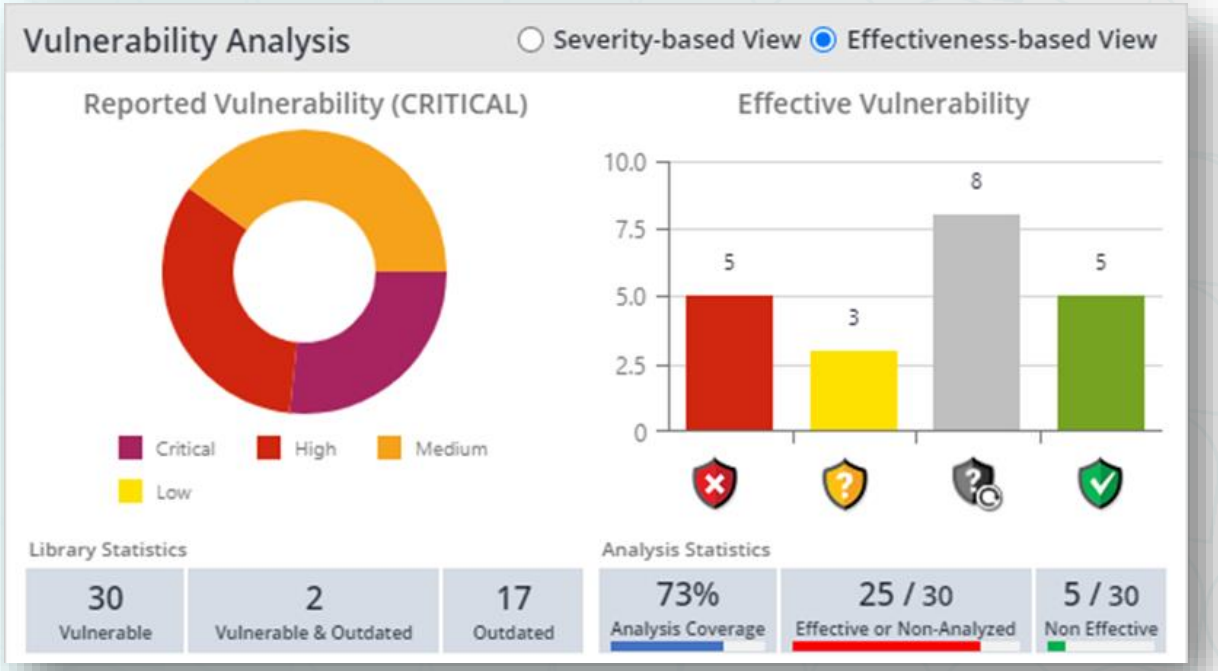
Effective Usage Analysis

Reachability path analysis discovers which OSS vulnerabilities matter, and which can be ignored

No more false positives



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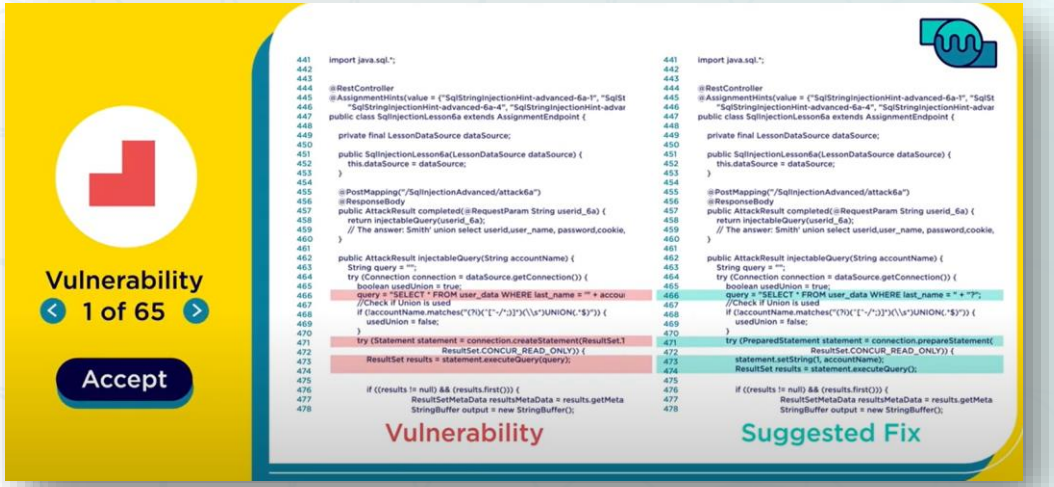
Automated Remediation



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Merge Confidence

Version	Age	Tests	Confidence
8.1.3	age 18 days	passing 100%	confidence high
8.1.4	age 17 days	passing 98%	confidence high
8.1.5	age 4 days	passing 74%	confidence low
8.1.6	age 4 days	passing 95%	confidence neutral

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Software Bill of Materials

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Adopting OSS Management: 5 Best Practices

1. Preparation and planning to maximize visibility
2. Effective branch strategies
3. Don’t just shift left. Shift smart.
4. Policies for automated enforcement
5. Secure Software Supply Chain

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"With closed source software, you're trusting that the company who wrote it isn't evil. With open source software, you can see for yourself." - Bruce Schneier - Cryptographer

Let’s make your open source security stronger and more resilient!

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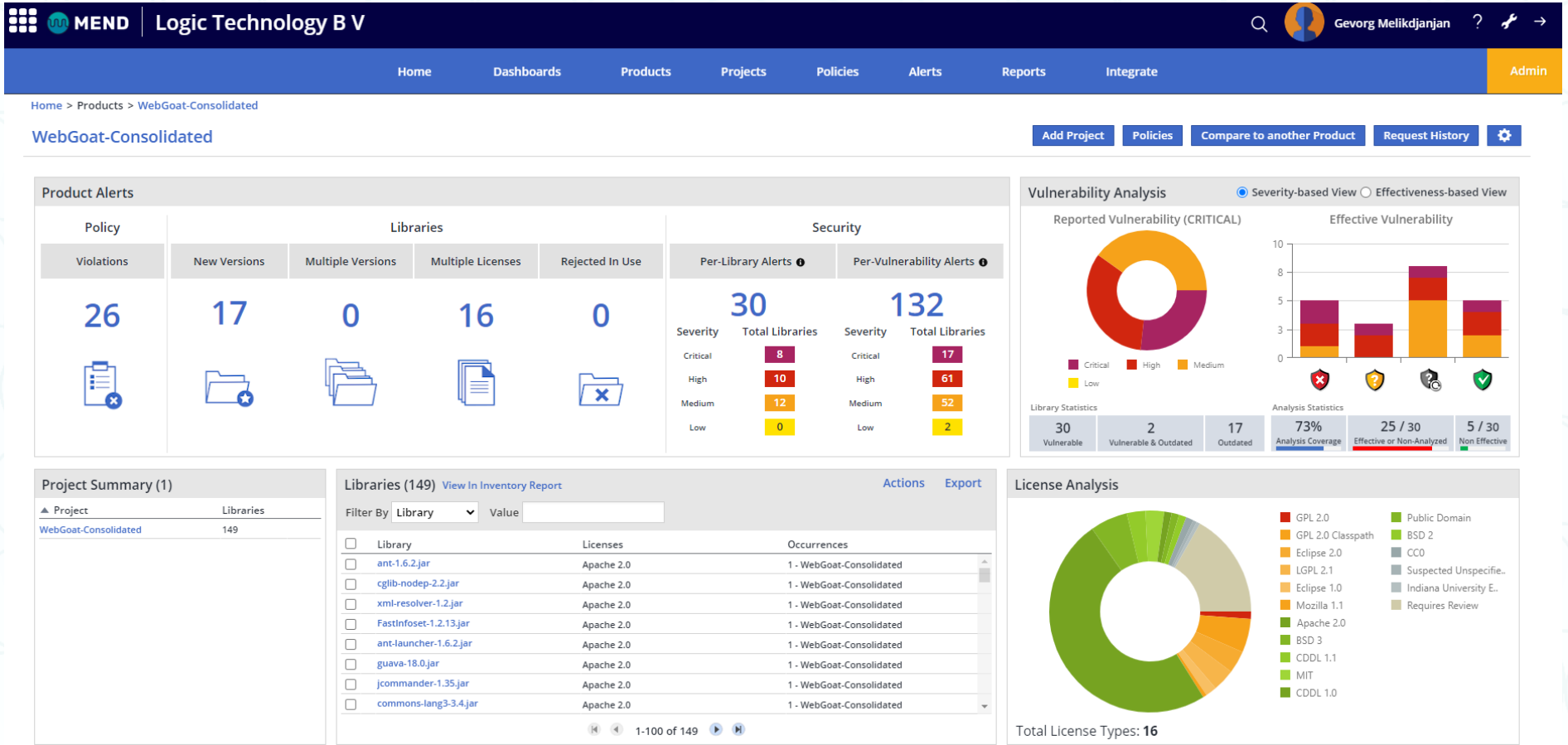
Visit our MEND Application Security Demo



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