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Are Security Leaders Overconfident About the State of Their Java Security?

Security professionals are overconfident

Security professionals think they are prepared for anything

- **95%** feel confident in the accuracy of their security tools[1]
- **100%** say they are confident in their company's state of Java security[2]
- **93%** think Java application developers have adequate security skills and expertise[2]

Data and recent trends tell a different story. Java libraries, the Log4Shell vulnerability, data breaches, unsupported Java versions and unpatched vulnerabilities are all sources of danger. False positives and irrelevant notifications overwhelm users with alert fatigue.
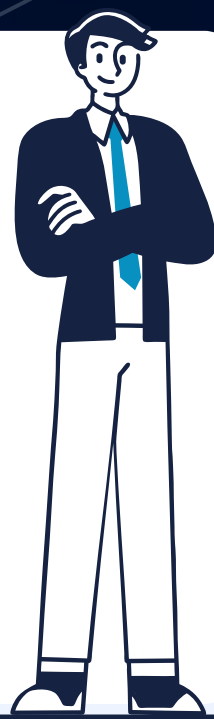
Third-party code is proliferating

- The number of libraries is growing, and **35%** of Java developers say managing third-party libraries is becoming more difficult[2]
- CVEs are growing – **13 high-risk** and **3 critical CVEs** over a **3-year period** (2018-20)
- In Q1 2022 alone there were **200+ CVEs** in **3rd party** Java applications and components, many with the highest risk score, by thousands of library authors, and each library has its own release schedule

13 HIGH RISK CVEs

3 CRITICAL CVEs

**200⁺ CVEs** IN 3RD PARTY JAVA APPS
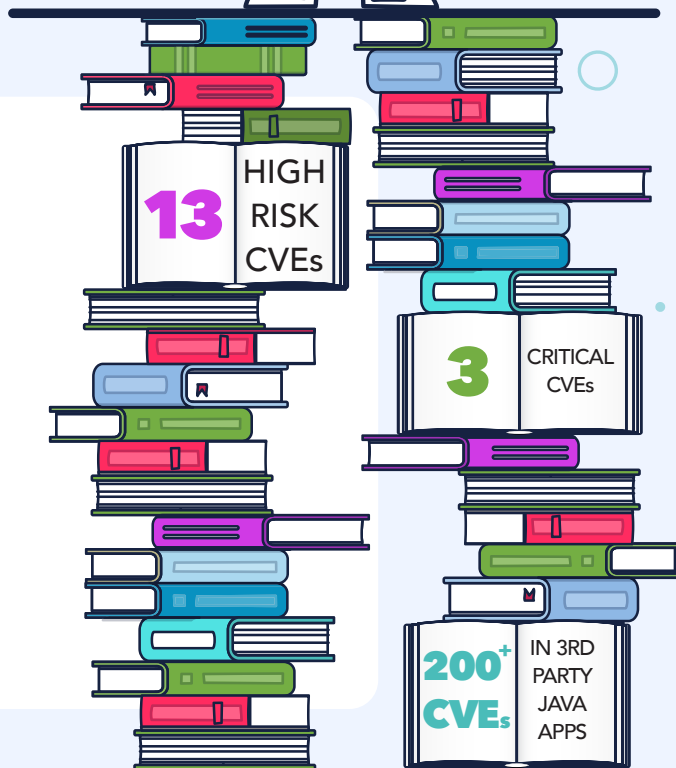
Vulnerabilities are increasing in number and severity, as evidenced by Log4Shell

- In its first weekend in Q4 2021, there were **37,000** attempts to allocate the Spring4Shell vulnerability
- About **58%** of Java applications package a vulnerable version of Log4Shell[3]
- Check Point researchers have already identified more than **60** variations of the original exploit code[4]

Teams have not universally adopted software bills of material (SBOMs)

- **100%** of security professionals say they know who is responsible for in-house SBOMs[2]
- But they don't agree on WHO is responsible (and they can't all be right)
  - o **43%** say Application Developers
  - o **30%** say line of Business Executives
  - o **23%** say IT Security
  - o **3%** say Business Operations
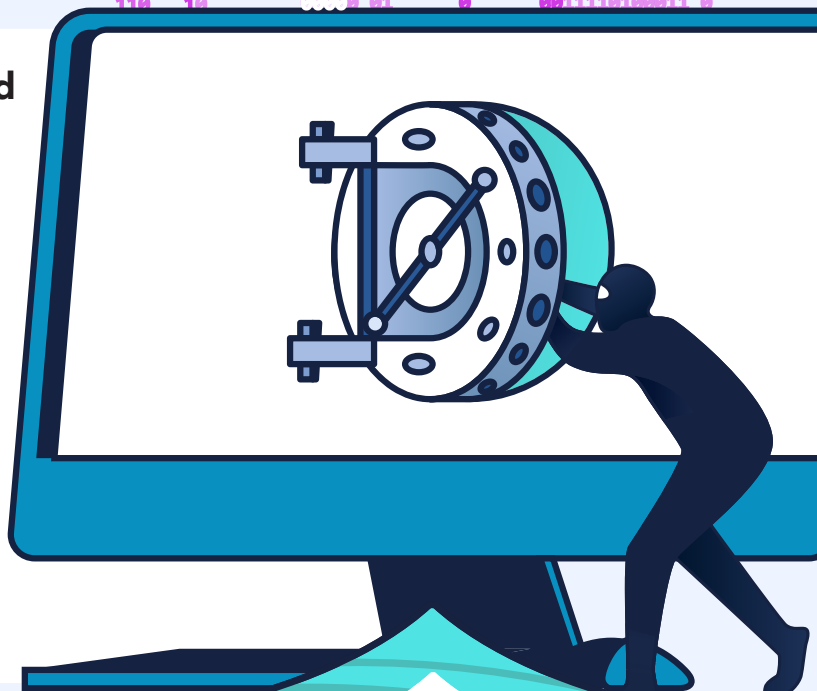
Azul Vulnerability Detection provides a new way to keep Java environments safe. For more information, visit azul.com/products/vulnerability-detection

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1 Orca Security, 2022
2 Azul, 2022
3 Contrast Security, 2021
4 TechTarget, 2021

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