

Exposing Critical Software Supply Chain Security Weaknesses

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ReversingLabs At-A-Glance

40B+



8X





Searchable Threat Repository

Larger Than Nearest Competitor

Cybersecurity Companies Trust RL



FASTEST





Files Analyzed Daily

Software/File Deconstruction

Malware Identified Daily



Employees Globally

CRN



5 Star Rated Partner Program

Gartner



Recognized for SSCS Solution

Verizon Business



Report Contributor

Today's Presenters



Dan Petrillo

VP, Product Marketing ReversingLabs



Katie Norton

Research Analyst IDC

IDC | The Trusted Technology Research Brand

Global provider of market intelligence, insights, and data for nearly 60 years.

- Innovative products and platforms serving tech suppliers, tech buyers, and tech watchers.
- 5B+ data points helping business leaders at executives make well informed decisions.
- Highly configurable data and research used by customers globally to drive their strategic goals.
- Over 1,300 analysts providing unmatched global and local expertise across hundreds of tech and vertical markets.

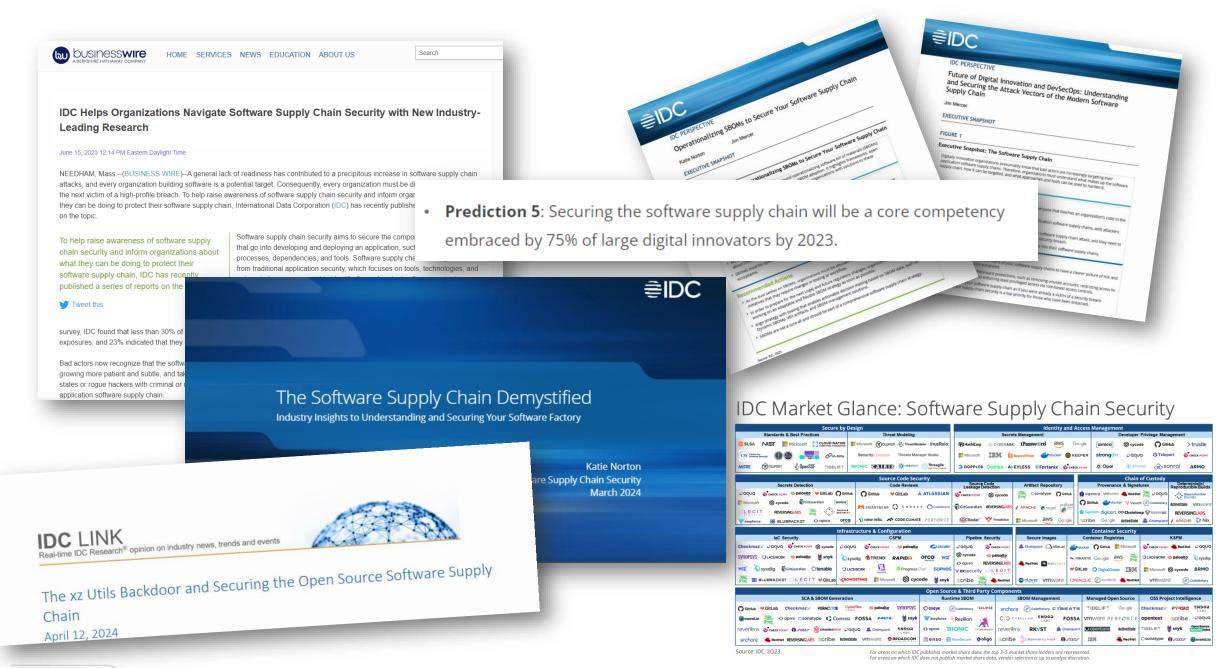






The Software Supply Chain

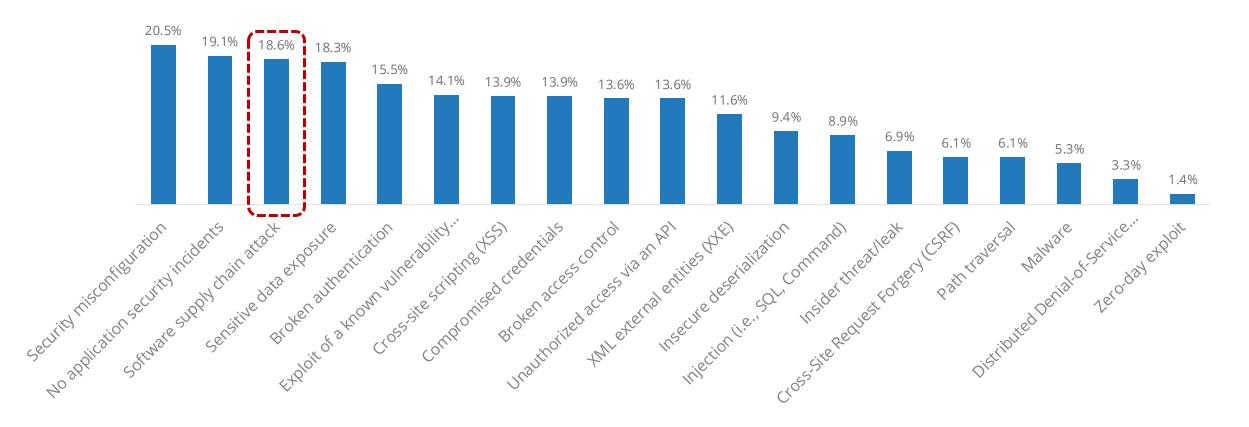
By the Numbers





Almost 1 in 5 organizations indicated they experienced a software supply chain attack in the last 12 months.

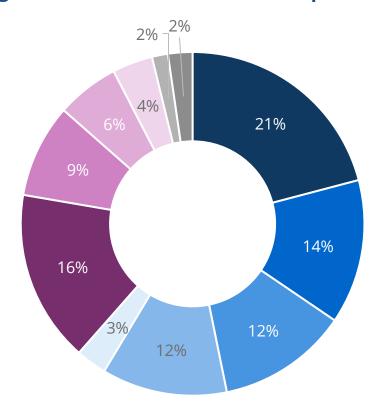
Q: What types of application security incidents have you experienced within the last 12-months?





Software supply chain attacks lead to ransomware incidents.

Q: For your most recent ransomware incident that blocked access to systems or data, what was the most significant source of the initial compromise?



User Catalysts

- Browser-based attacks over the normal course of Internet browsing
- Clicked on a malicious URL or opening a malicious attachment in a phishing email
- Malicious access which leveraged a compromised credential
- Malware stored on peripheral devices or removable media inserted into a system
- Insider threat (malicious insider)

Software Catalysts

- Supply chain attack, examples include SolarWinds or Kaseya
- Leveraged a misconfiguration that allowed access to system
- Leveraged an unpatched vulnerability
- Leveraged a zero-day
- Organization was unable to determine the source of the initial compromise
- Don't know specifics/ details of the initial compromise have not been shared with me.



Defining the Supply Chain



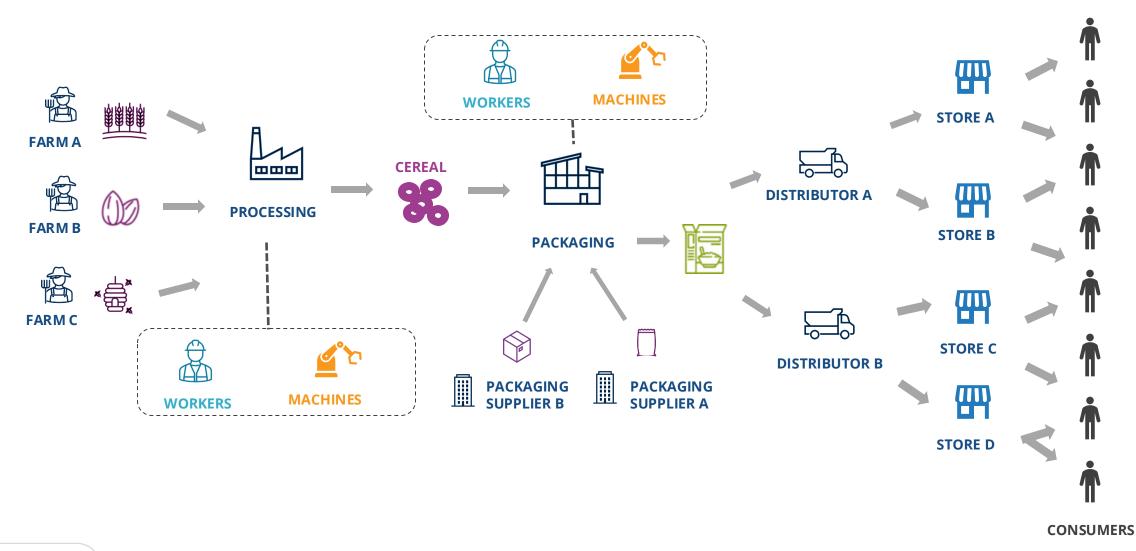
"A supply chain is an entire system of producing and delivering a product or service, from the very beginning stage of sourcing the raw materials to the final delivery of the product or service to end-users."

- Corporate Finance Institute (CFI)



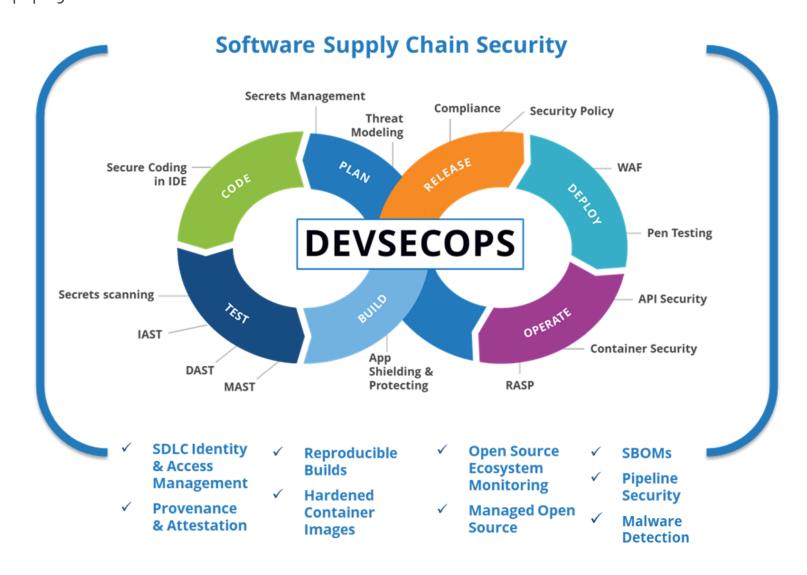


Visualizing A Supply Chain





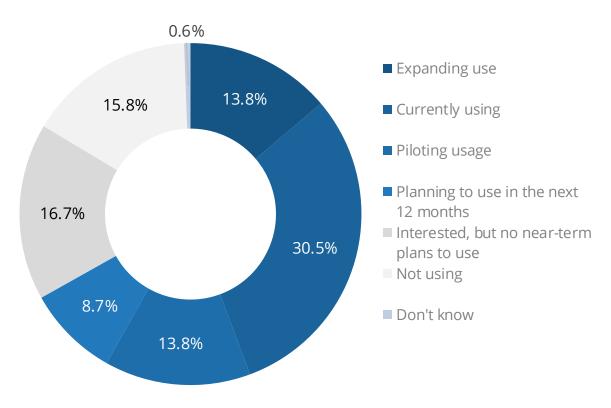
Misconception #1: DevSecOps/AppSec tools are sufficient to protect the software supply chain.





Misconception #2: SBOMs are the software supply chain silver bullet.

Q. Which best describes the current adoption of producing a software bill of materials (SBOM) for the applications your organization develops and deploys?







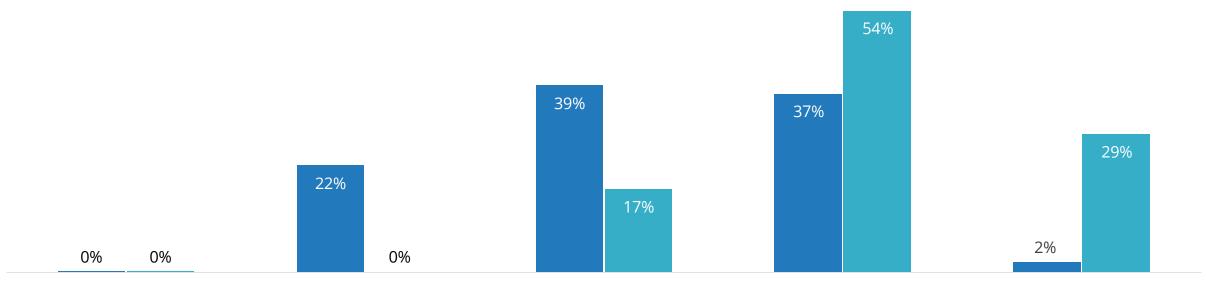
Misconception #3: We only need to care about CVEs.





Securing your software supply chain weaknesses must be a strategic imperative.

Q. Which one statements best describes your organization's approach to securing your software supply chain today?



Not yet considering on an Marginal activities in parts Moderate attention with of org org level

High attention and well governance in place

Strategic alignment with some formalized processes structured processes and corresponding GRC policies

■ Today ■ 12 months



We would love to hear from you.

Which of these statements best describes your organization's approach to securing your software supply chain today?

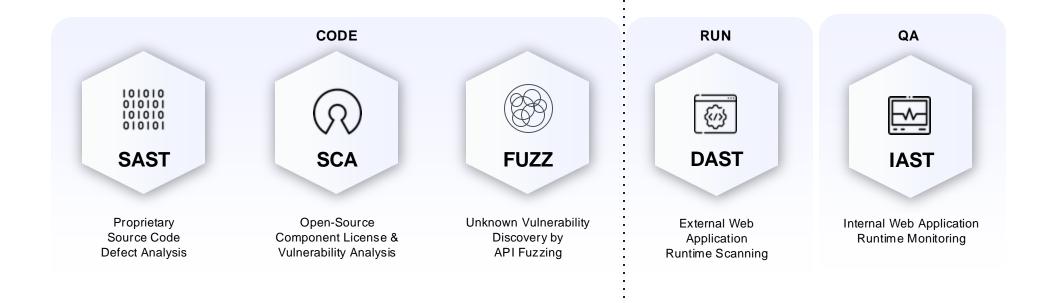




Links in the Chain

1: Software Providers

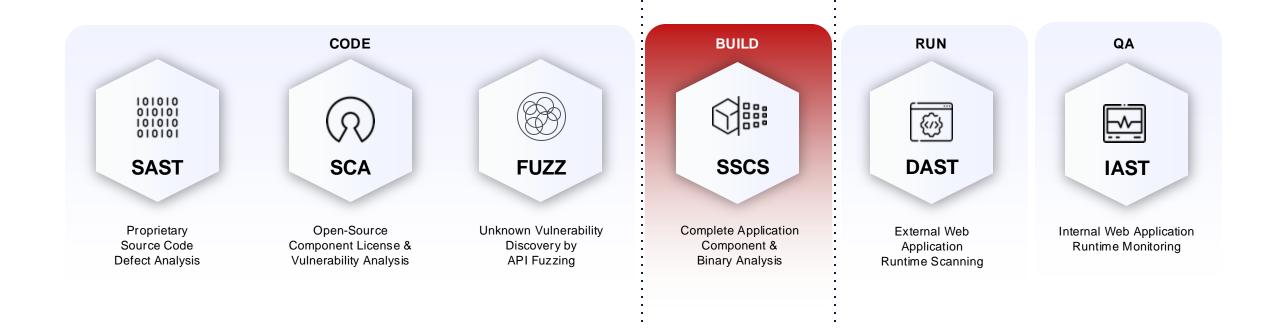
The Legacy Approach



The legacy methods fail to deliver sufficient and complete security.



Modern Approach



A critical build exam delivers the final analysis to close a major gap in the SDLC.





Links in the Chain

2: Software Buyers

Legacy Solutions: No Primary Control



Questionnaires

- Rely on truthful & accurate self-attestation
- Based on "inherent trust model"



SBOM

- Essential but basically a list of ingredients
- Doesn't identify risks and threats



Pentesting

- Fundamental practice to mimic threat actor
- Too expensive to scale to address TPSRM



Security Rating Services

- Convey a vendor's exposure with a rating
- Doesn't identify malware, tampering, etc.



Sandbox

- Costly and requires execution or "detonation"
- Resource intensive, costly, and not scalable

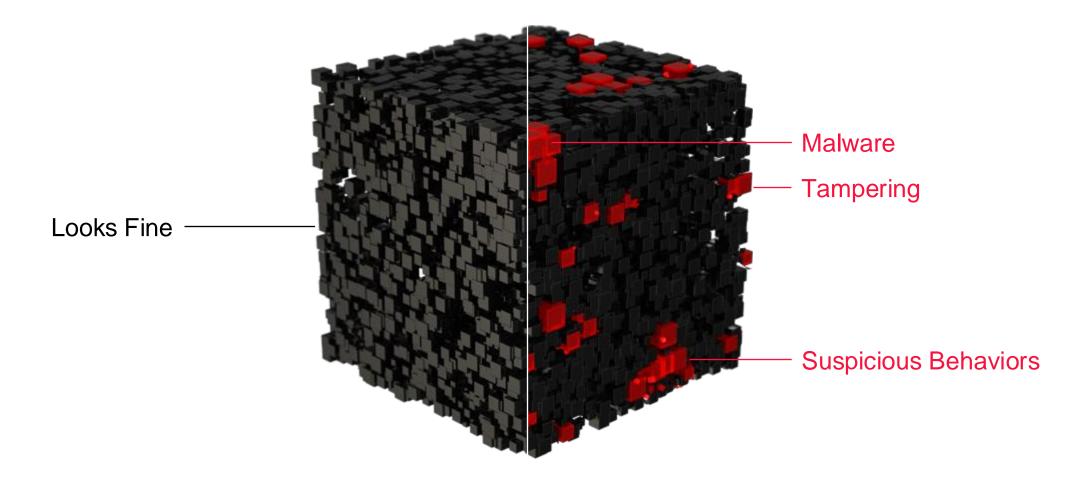


"SOC 2, ISOs, questionnaires, information in spreadsheets... that evaluation doesn't really give you enough to be able to truly assess the risk of the product that you're buying."

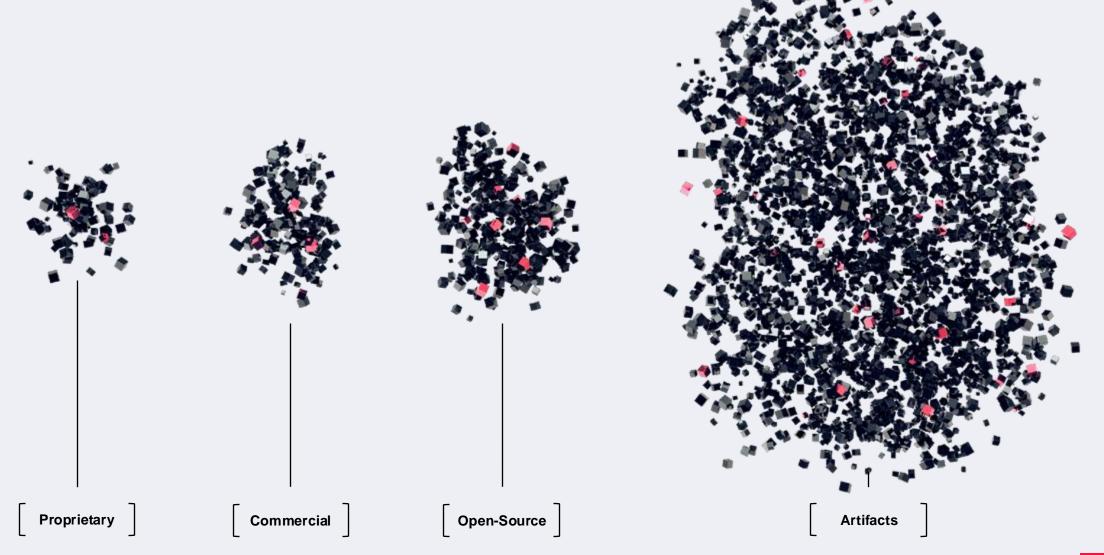
Tim Brown, CISO



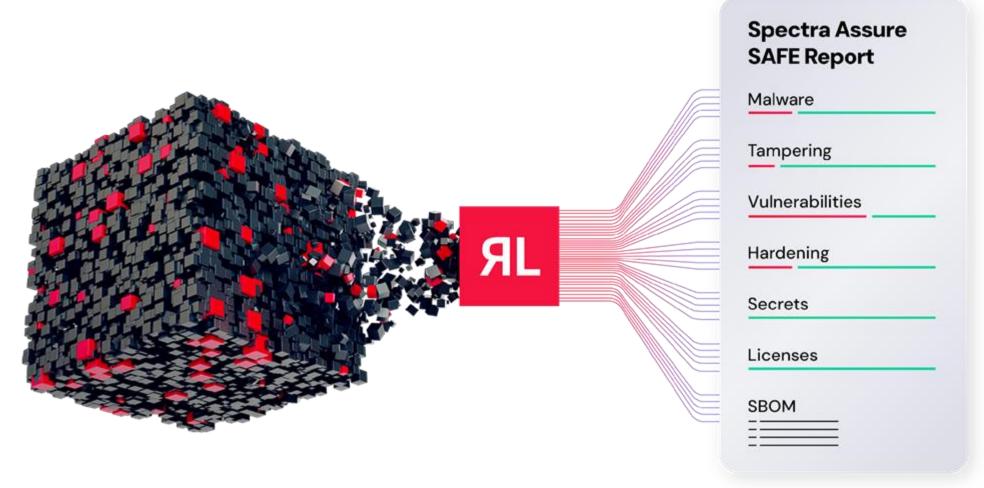
Software Buyer Challenge: Lack of Visibility



Identify All Components

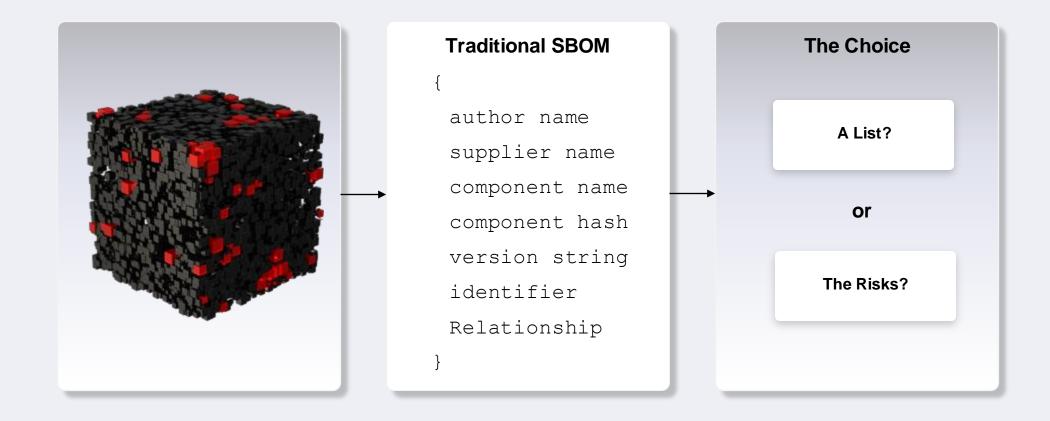


Identify Critical Risks and Threats



Software Buyers need a primary control to identify malware, tampering, and more - without source code.

Going Beyond the SBOM







Links in the Chain

3: Collaboration is Key

The Modern Approach: Collaboration is Key

Software Producers

IT Security

Risk Management



Application Security | Development | Engineering | Security Operations | Product Security Incident Response

Identify Software Supply
Chain Issues Before Release

Continuously Monitor For Supply Chain Attacks

Find Hidden Threats Before Deployment or Updates

A NEW ERA OF TRANSPARENCY



Software Providers





Software Buyers

We would love to hear from you.

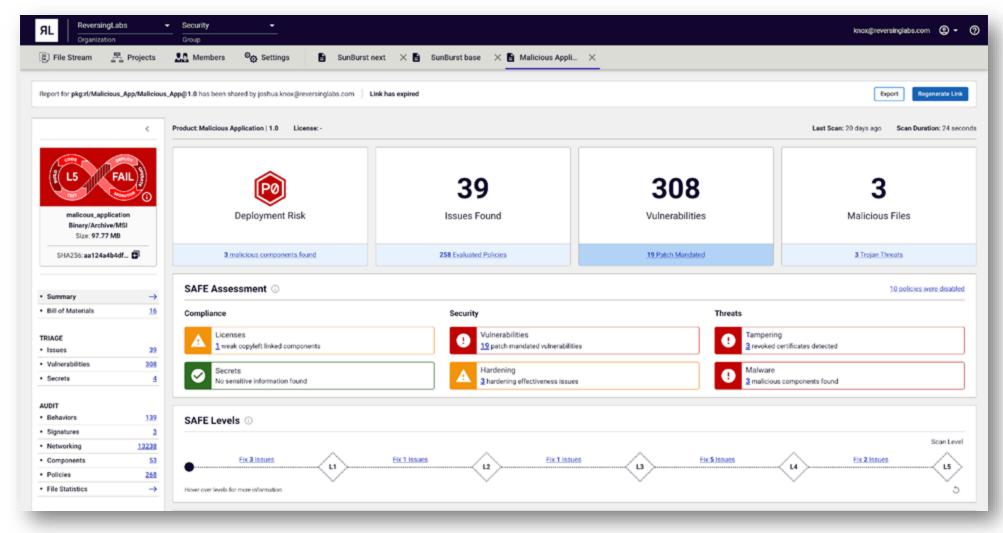
How would you rate the level of transparency between you and your vendors?



Addressing ALL Links in the Chain

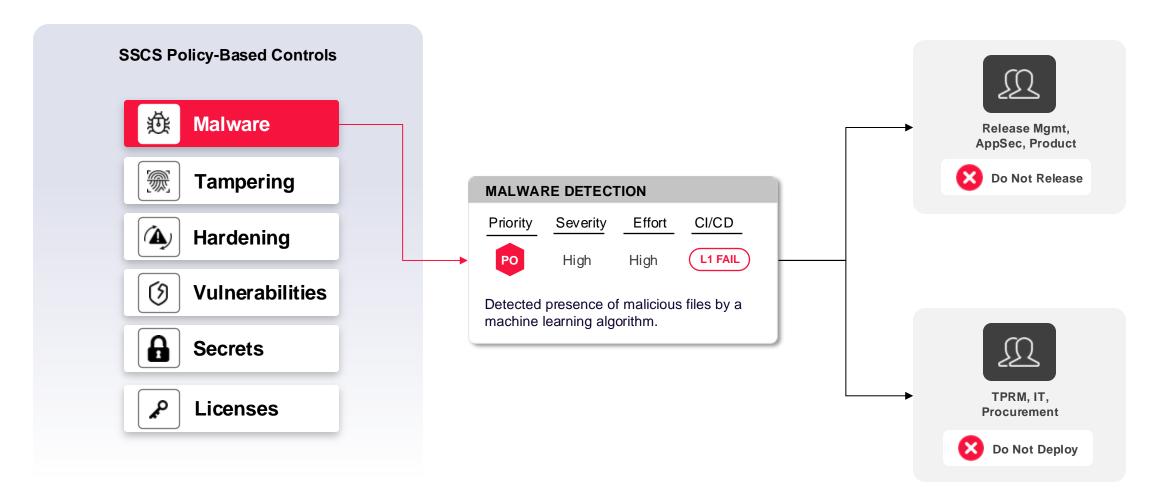
4: End to End SSCS

Spectra Assure SAFE Report

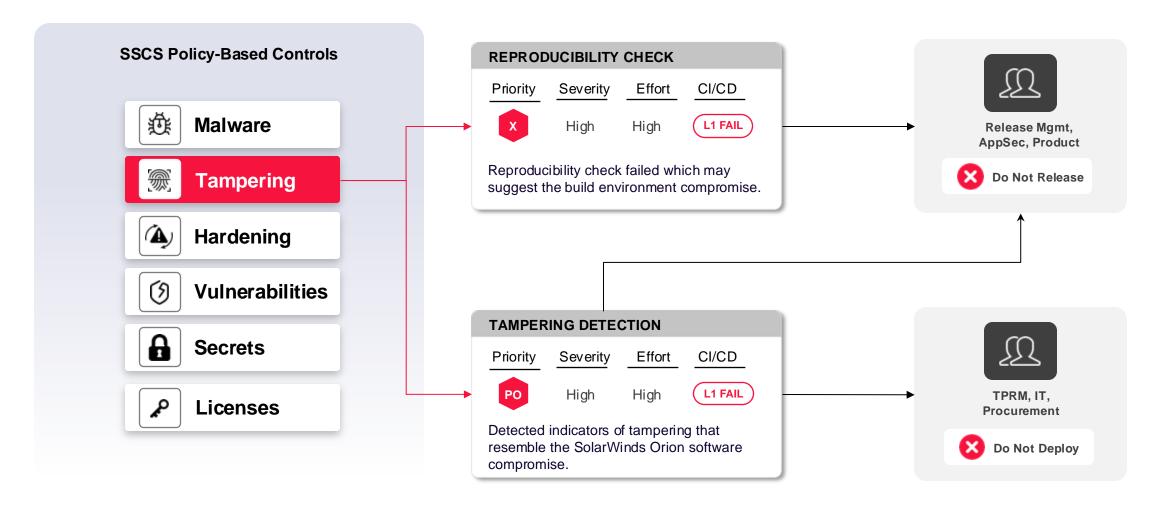


Spectra Assure report delivers the most comprehensive SBOM and risk assessment for an application.

How Spectra Assure Stops The Next Attack

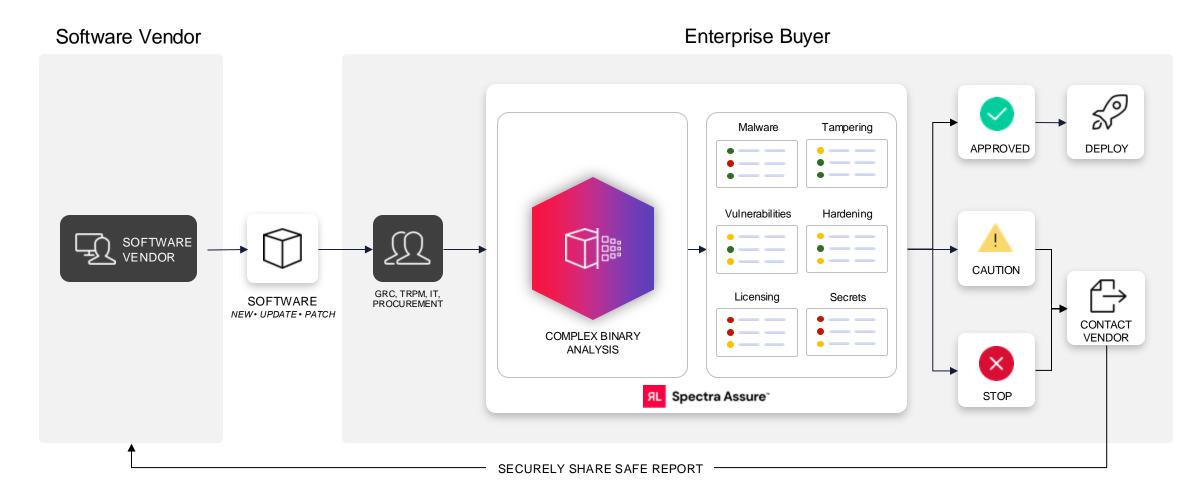


How Spectra Assure Stops The Next Attack



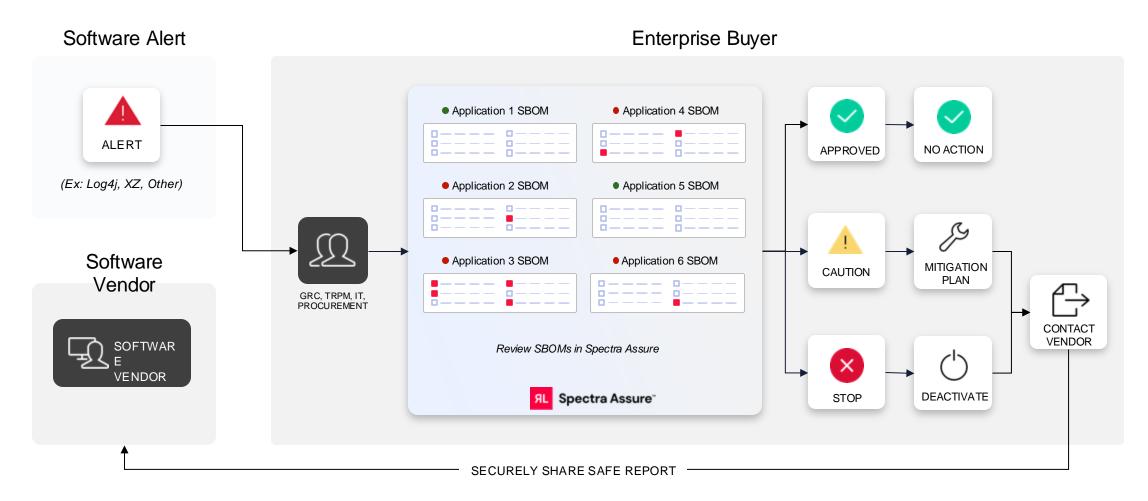
Mitigate Third-Party Software Risk

Control & Collaboration in Purchase & Deployment

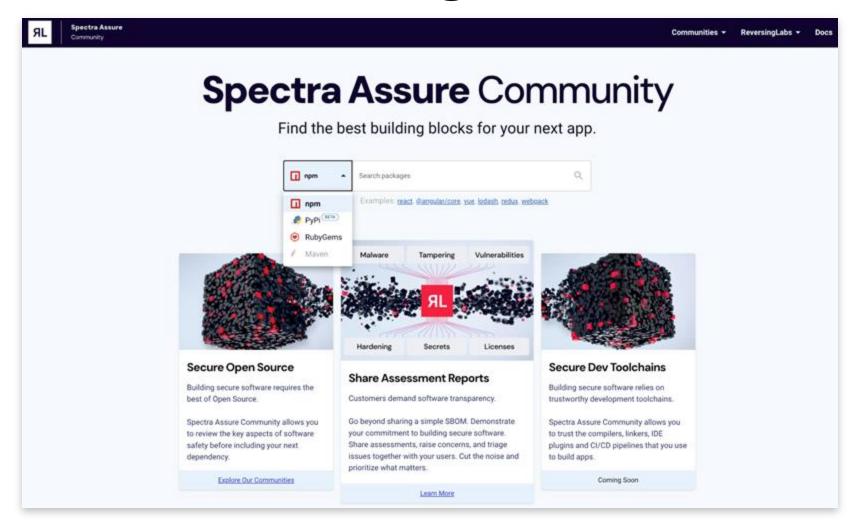


Mitigate Third-Party Software Risk

Monitoring Software



Free Resource...no strings attached, really.



RL provides the largest, free resource of comprehensive risk assessments on open source software at https://secure.software

Upcoming RL Virtual Events





https://www.reversinglabs.com/webinar/webinar-line-up



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