anchore



Preparing for the Next Zero-Day

Hello World



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Agenda

01 When

02 What

03 Who

04 How

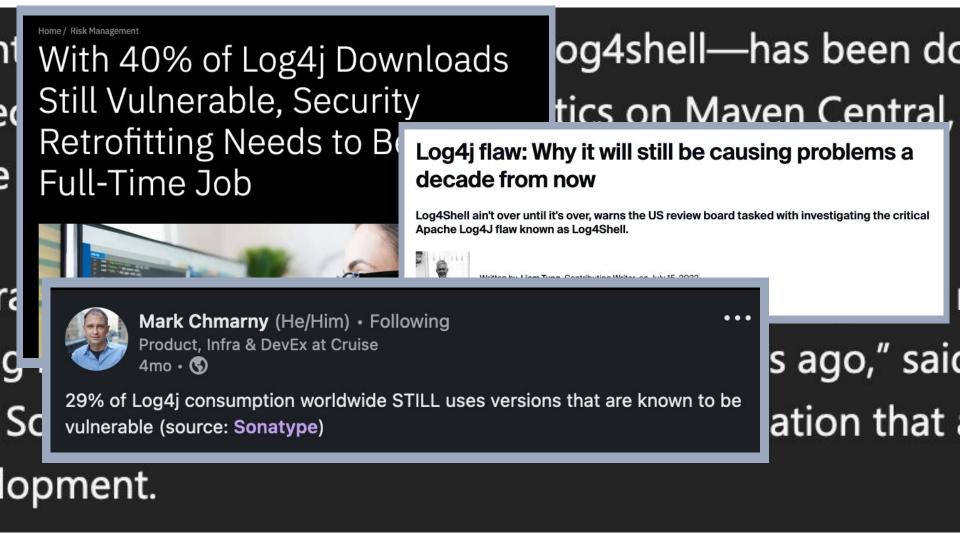
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Lesson 1: When







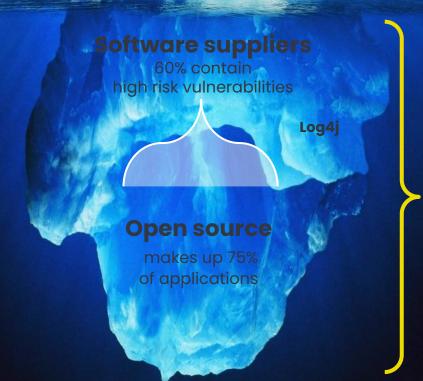


Lesson 2: What

Hidden Risk in the Software Supply Chain

Your App

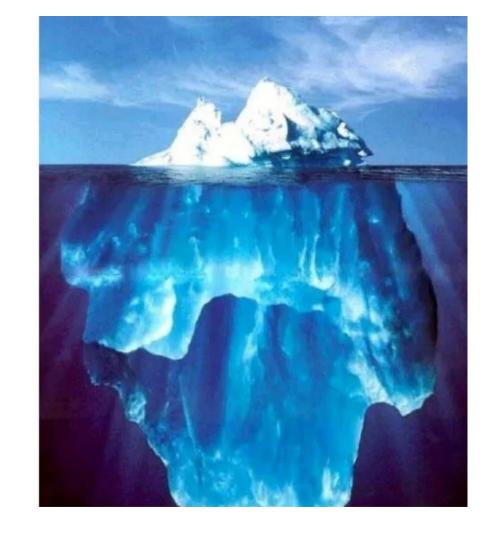
Risk in the Software Supply Chain

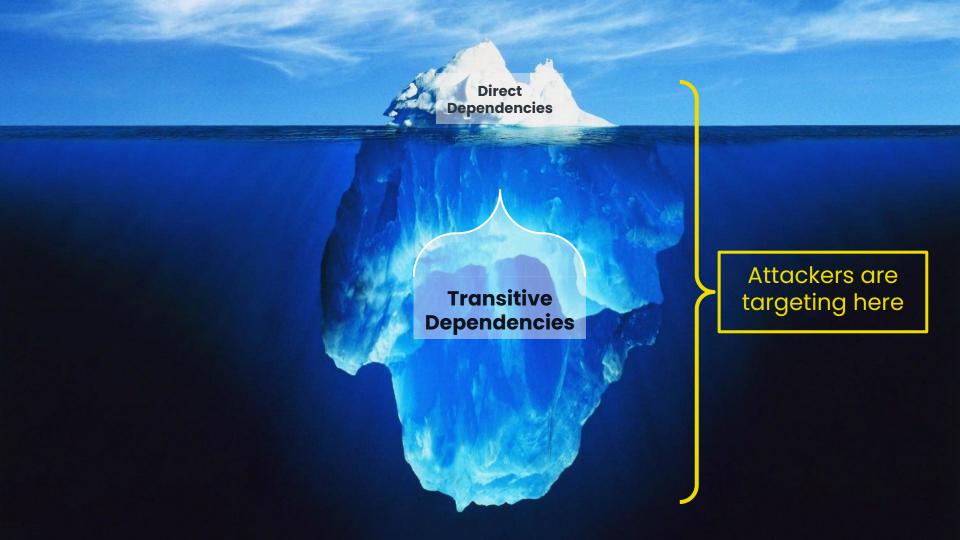


Attackers are targeting here

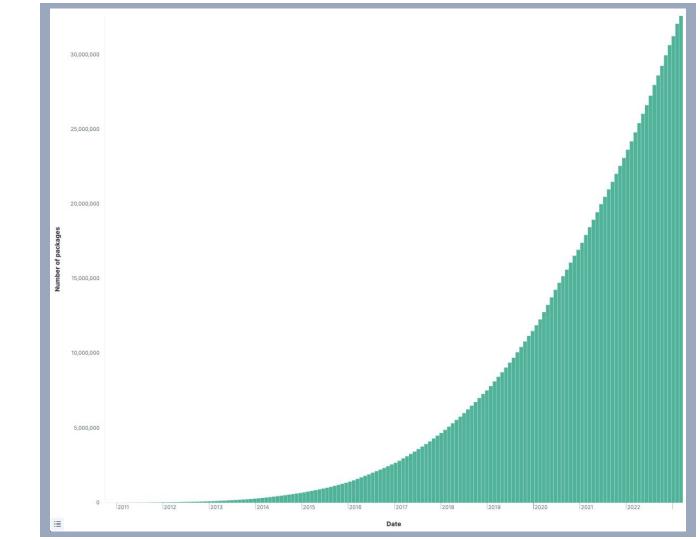
Free is Just the Tip of the Iceberg: Open Source Library System Software

Lori Bowen Ayre lori.ayre@galecia.com METRO Webinar October 6, 2009

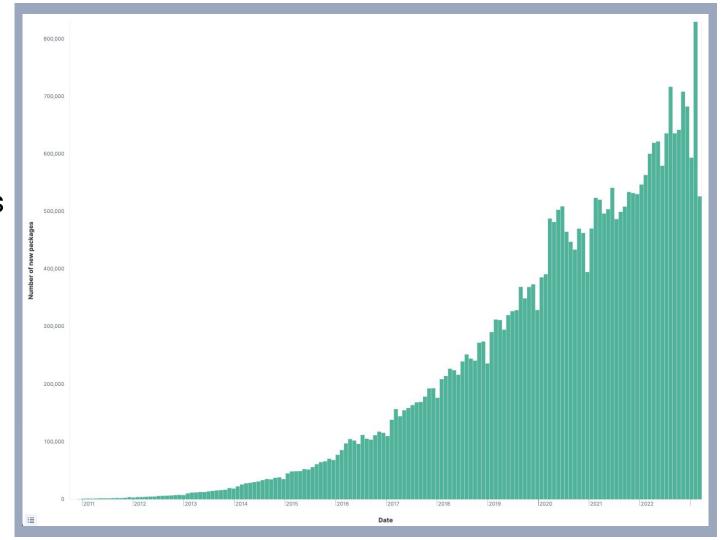




Number of NPM packages



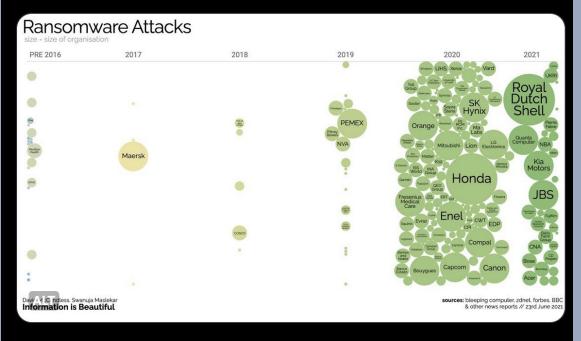
Number of NEW packages



• •

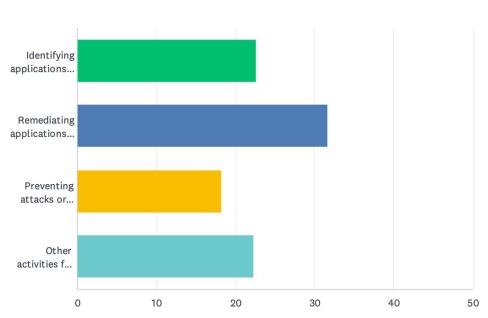
Are #Ransomware attacks increasing? I think #Ransomware attacks are increasing...

interactive: bit.ly/3h1IYPs



Q12 Estimate how many hours you personally have spent to date on each of the following activities.





Lesson 3: Who



If you are a multi billion dollar company and are concerned about log4j, why not just email OSS authors you never paid anything and demand a response for free within 24 hours with lots of info? (company name redacted for *my* peace of mind)

Dear Haxx Team Partner,

You are receiving this message because uses a product you developed. We request you review and respond within 24 hours of receiving this email. If you are not the right person, please forward this message to the appropriate contact.

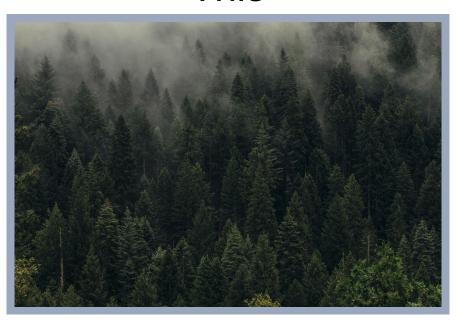
As you may already be aware, a newly discovered zero-day vulnerability is currently impacting Java logging library Apache Log4j globally, potentially allowing attackers to gain full control of affected servers.

The security and protection of our customers' confidential information is our top priority. As a key partner in serving our customers, we need to understand your risk and mitigation plans for this vulnerability.

Please respond to the following questions using the template provided below.

Stop thinking about open source like a vendor

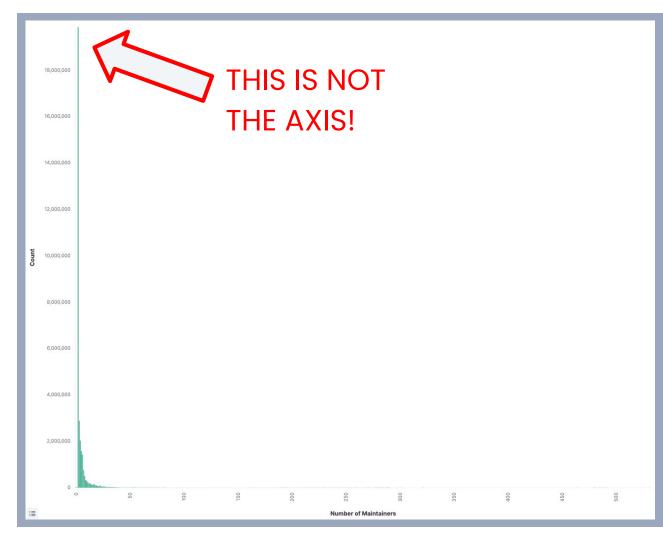
This



Not this



Number of Maintainers



Lesson 3: How



Paul Novarese (He/Him) • You
Software Supply Chain Security at Anchore
1yr • Edited • •

The #log4j debacle is going to have ramifications far beyond the vulnerability itself. There has been a lot of inertia in how issues are evaluated and classified, how information about those issues is disseminated, and how organizations respond to them, and #log4shell has exposed a lot of these problems. This will be a catalyst for a lot of changes that are way overdue.



The fact that there are almost 10,000 CVEs with the same CVSS score as the Log4j vulnerability suggests to me that maybe the scale should be logarithmic.

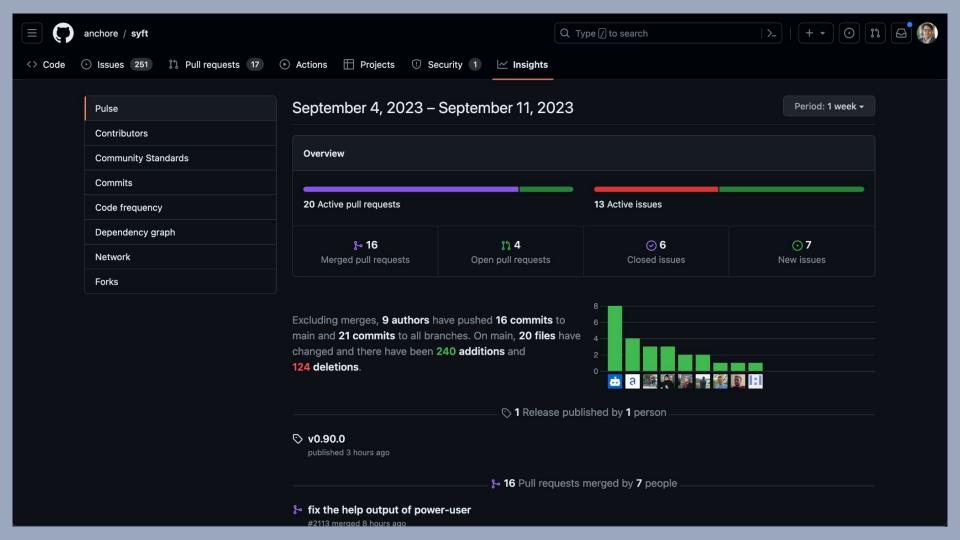
6:26 PM · Dec 11, 2021 · Twitter for iPhone

CVE-2020-19909

On August 25 2023, we got an email to the curl-library mailing list from Samuel Henrique that informed us that "someone" had recently created a CVE, a security vulnerability identification number and report really, for a curl problem.

I wanted to let you know that there's a recent curl CVE published and it doesn't look like it was acknowledged by the curl authors since it's not mentioned in the curl website: CVE-2020-19909

We can't tell who filed it. We just know that it is now there.



Recap, Notes, &c.

Recap

- Log4Shell is radioactive and immortal
- How software gets made has changed
- We don't know what's in our software
- We don't know who is supplying it
- We have to change how we evaluate it
- GitHub is uniquely positioned
- Think about risk in the general case



Q&A

Download Syft

Download Grype

https://github.com/anchore/syft

https://github.com/anchore/grype

Let us know if you like it by giving us a star on GitHub

Get an invite to our open source community Slack: https://anchore.com/slack/

These slides and lab examples archived here: https://github.com/pvnovarese/2023-09-lessons-of-log4shell