DON'T DRINK SCOURS MILES MILES

new

and other avoidable risks in the world of application security.

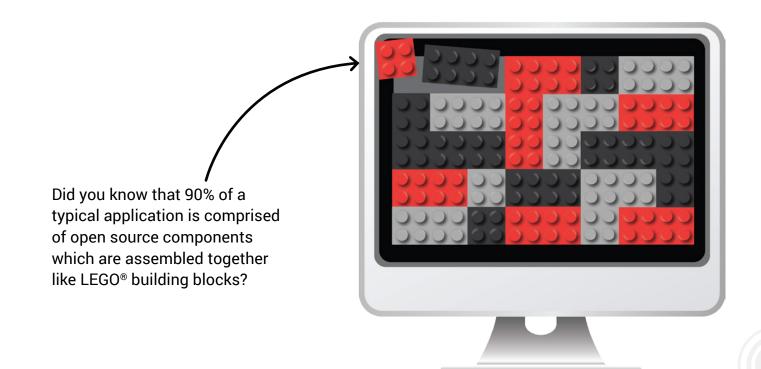
There has never been a more interesting, important or challenging time to be a software security professional than RIGHT NOW.

Your job description has been fundamentally re-written.

Applications are the new vector of attack.

Development is going faster than security can keep up.

Most source code has been replaced by open source components.



Let's start with a question: Is application security

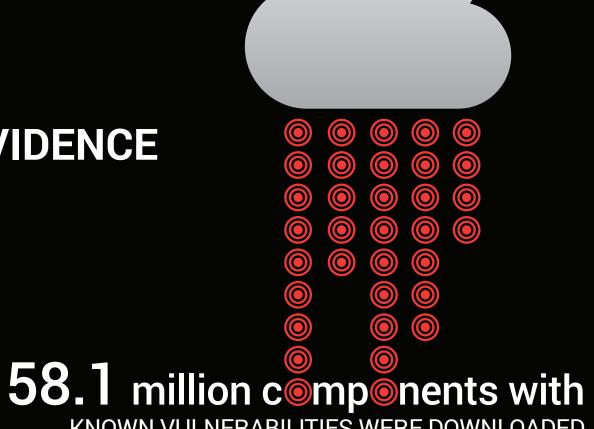
Security is bolted-on, not built-in.

Releases are monthly, weekly, or even daily. Security can't keep up.

Software is assembled with components, yet we can't really see what we're using.

We build known vulnerabilities into our software, then spend even more time and resources to get them back out.

THE EVIDENCE



KNOWN VULNERABILITIES WERE DOWNLOADED

from the (Maven) Central Repository last year.

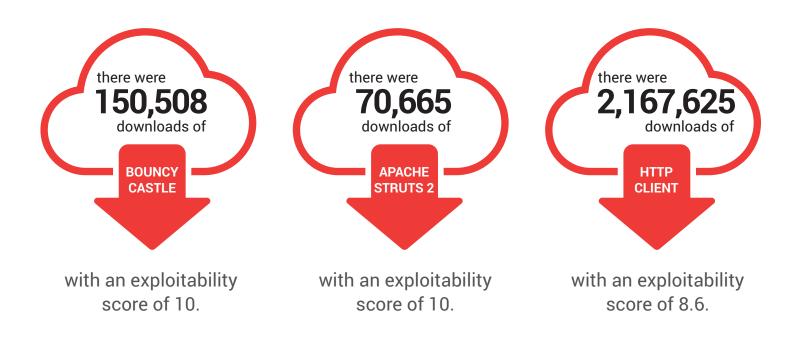
You see... components age more like milk than fine wine.



Over time, they expire due to security or quality issues...but are still available for consumption.

Let's get more specific.

Even after security alerts were issued and fixes provided...



Hmmm...that's a lot of sour components flowing into your applications. And fresher versions have been available *for years*!

THE BOTTOM LINE.

We are knowingly and consciously prolonging the life of component versions with KNOWN vulnerabilities.

And they are lurking in your applications.





Can we all agree? This is just not working!

We scan source code.

We manually enforce whitelists and blacklists.

We (think we) have golden repositories.

All tickets on the things-we-think-we-should-do-to-be-competent train.

But your developers find work-arounds...

Cyber attacks are on the rise...



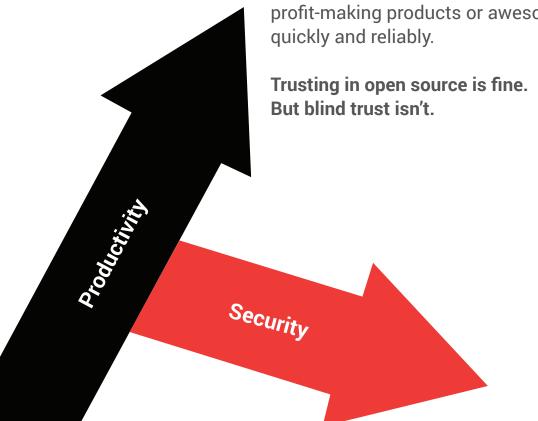


The Facts: This is NOT an open source problem.

This is productivity exceeding security.

Open Source Software (OSS) is essential in our world today. Without it, we couldn't build our innovative, profit-making products or awesome new services quickly and reliably.

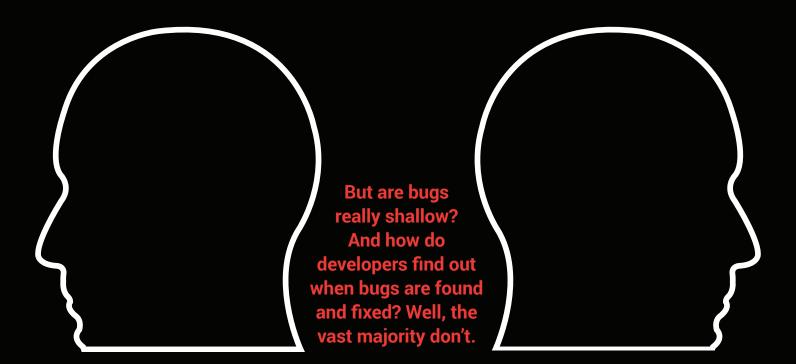
Trusting in open source is fine



"What we've got here is a failure to communicate."

Countless open source projects contribute millions of components to the open source community...

and 11 million developers download these components trusting that with more eyeballs, all bugs are shallow.



Hello, Houston, we have a problem.



(and it is even worse than sour milk)

71% of APPLICATIONS HAVE A CRITICAL OR SEVERE VULNERABILITY IN THEIR OPEN SOURCE COMPONENTS*

33% of ORGANIZATIONS REPORT BREACHES RELATED TO A VULNERABLE OPEN SOURCE COMPONENT**

^{*}Based on an open source risk analysis conducted on over 1,500 applications

^{**}Based on the Sonatype 2014 Open Source Development Survey with more than 3500 participants

Worse yet, we can't even answer...

What open source components are being used, and where?

Which components have known security vulnerabilities?

Which production applications are at risk?

What are your license obligations?

Which open source vulnerabilities are most critical?

Do your programmers comply with your policies?



This is a software supply chain issue.

And supply chain issues are not new.

Think about supply chains for things like cars, planes and food. As manufacturing became more complex, it was mandatory to create supply chain processes and controls. You want to buy fresh milk, right? The same is true with vulnerable components that are part of your software supply chain. We can't just use expired and risky components in our applications without some very unpleasant side effects down the road. Heartbleed anyone? We need a complete inventory, like a "bill of materials" for each application. So when there is a "recall" you can act fast and efficiently.



We need to use the

SAFEST COMPONENTS

in our software supply chain.



Agree?

Here it comes...

The most important information about the easiest thing you can do to close that

application security gap. FAST.

Don't drink sour milk.

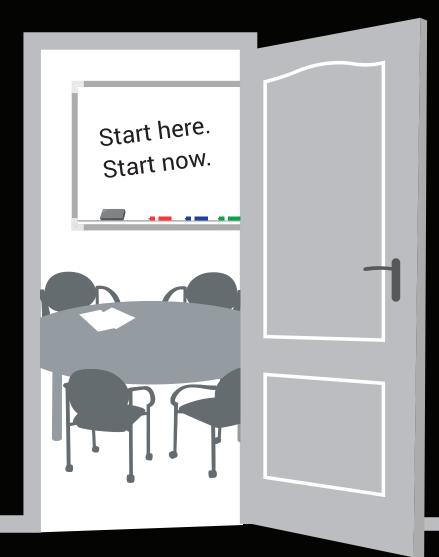
AND DON'T USE VULNERABLE COMPONENTS.



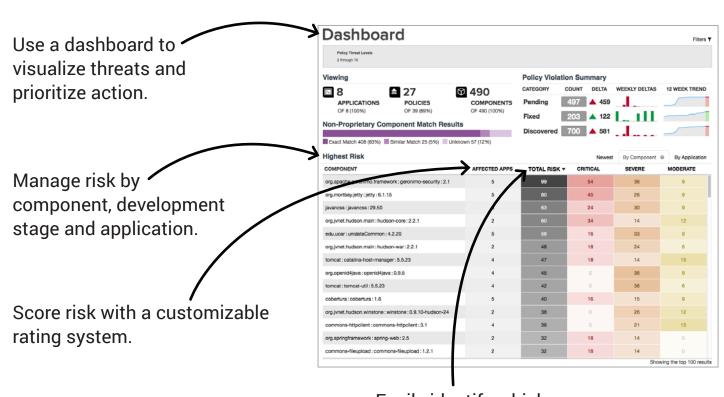
Both are undesirable and easy to avoid.



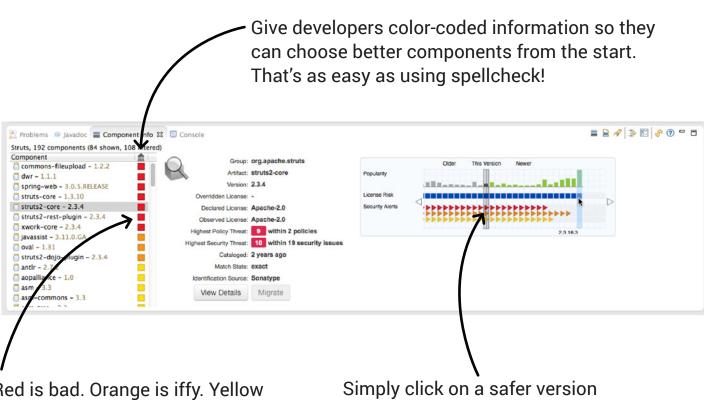
Here's how.



1 See what you're using.



Help your developers.



Red is bad. Orange is iffy. Yellow is not good, but not as bad as sour milk...

Simply click on a safer version and update.

Create a "Bill of Materials."

Create and monitor a comprehensive bill of materials so you know what components are used, and where.

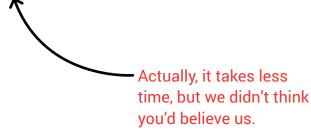
How long will it take?

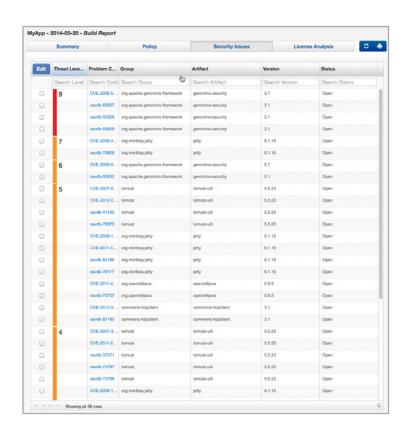
Five months

Five weeks

Five days

Five minutes





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That is our RANT.

Thank you for listening.

Feel like a little RANT of your own? Share!











Watch for our next RANT called *Raise* the B.A.R.R. on Open Source Components: Ban Avoidable Risk & Rework. Don't want to miss it? Follow us on Facebook or Twitter to be the first to know.





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Every day, developers rely on millions of third party and open source building blocks—known as components—to build the software that runs our world. Sonatype ensures that only the best components are used throughout the software development lifecycle so that organizations don't have to make the tradeoff between going fast and being secure. Policy automation, ongoing monitoring and proactive alerts makes it easy to have full visibility and control of components throughout the software supply chain so that applications start secure and remain that way over time. Sonatype is privately held with investments from New Enterprise Associates (NEA), Accel Partners, Bay Partners, Hummer Winblad Venture Partners and Morgenthaler Ventures. Visit: www.sonatype.com