Introduction to managed open source TIDELFFT





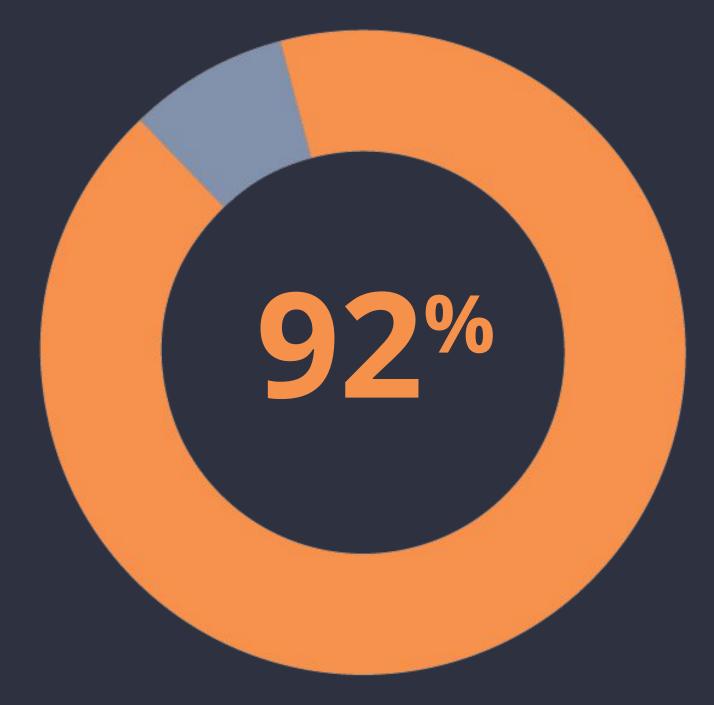
Managed Open Source A way for application development teams to offload the complexity of managing open source components.

Save time. Reduce risk.





Open source = the modern development platform



of professional applications contain open source components

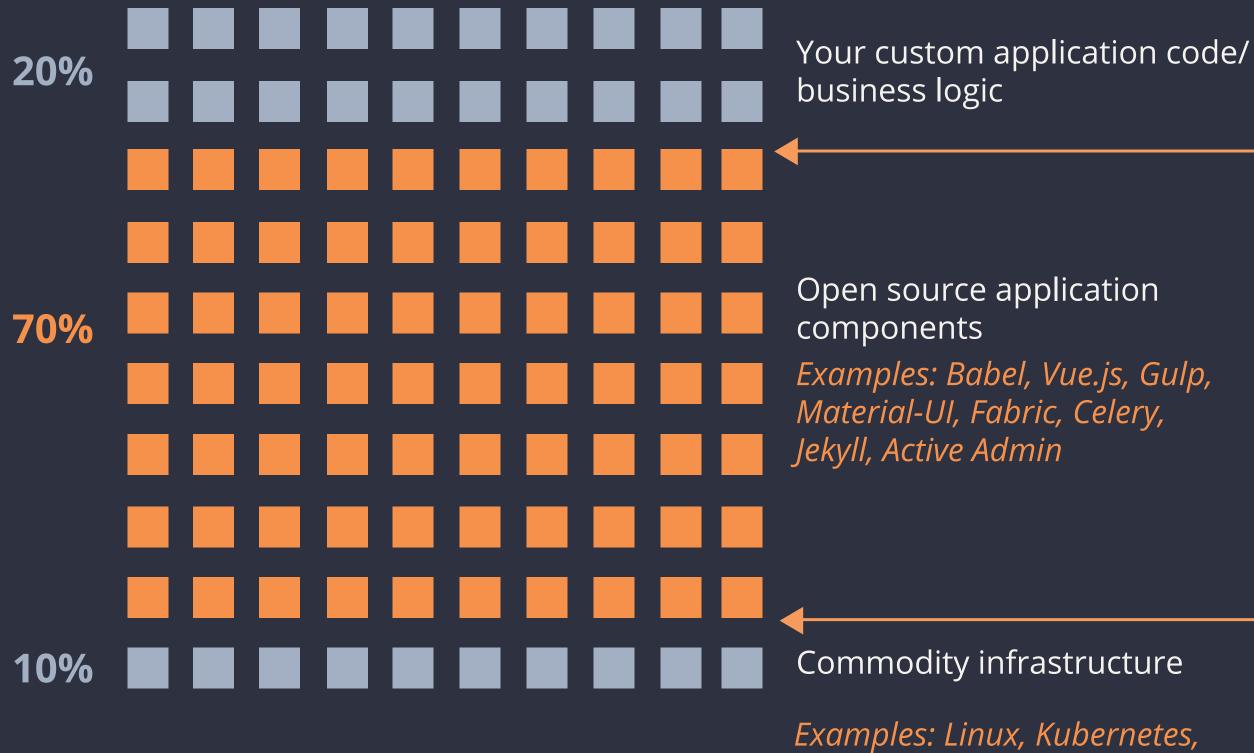
Source: Tidelift 2018 Professional Open Source Survey

 It is fundamental to the development process and essential for building applications

It is a blessing (productivity boost) and a curse
(dependency hell and other maintenance headaches)



Most applications are built on top of a foundation of 70% or more open source code



MongoDB, Docker

Top layer of your app, your job to support

Most of your app, but no one's job to support

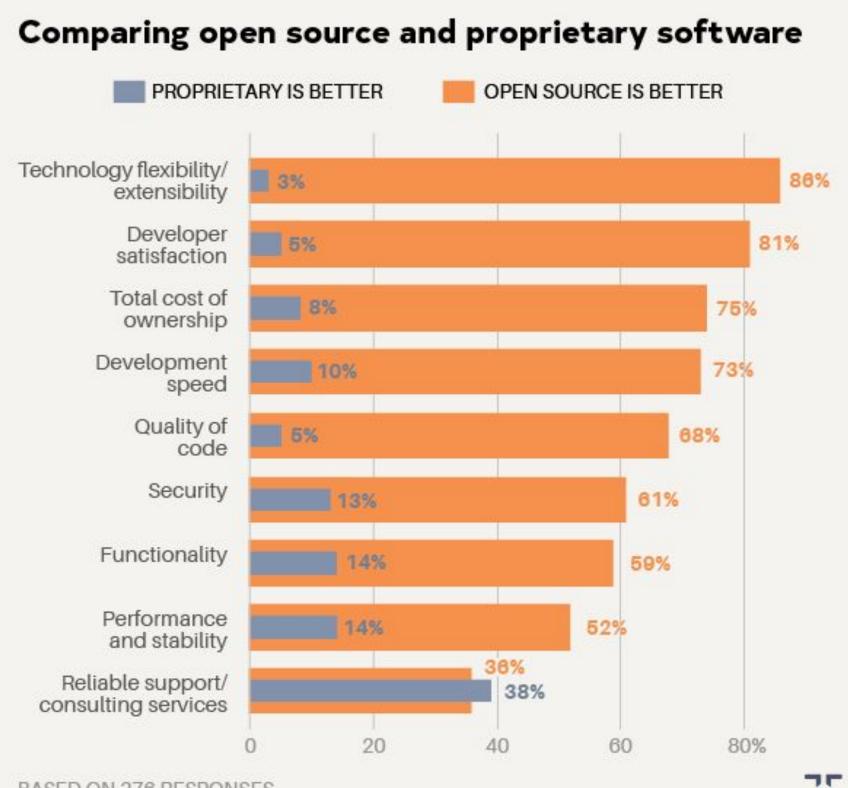
Supported by big vendors or cloud providers



Who's supporting the 70% of components you use to build your apps?

Historically, reliable support for open source is the only pain reported by many development teams.

Open source outclasses proprietary software in every other category.



BASED ON 376 RESPONSES

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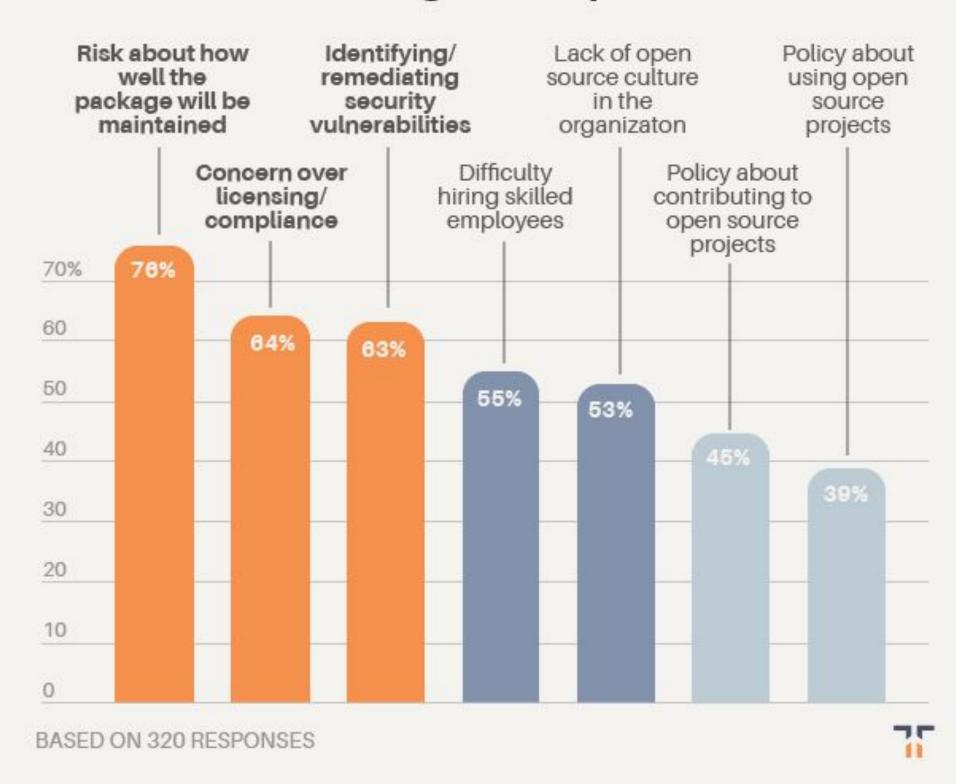
The big three support challenges: maintenance, security, and licensing

In multiple surveys, the biggest obstacles for development teams using open source have been remarkably consistent:

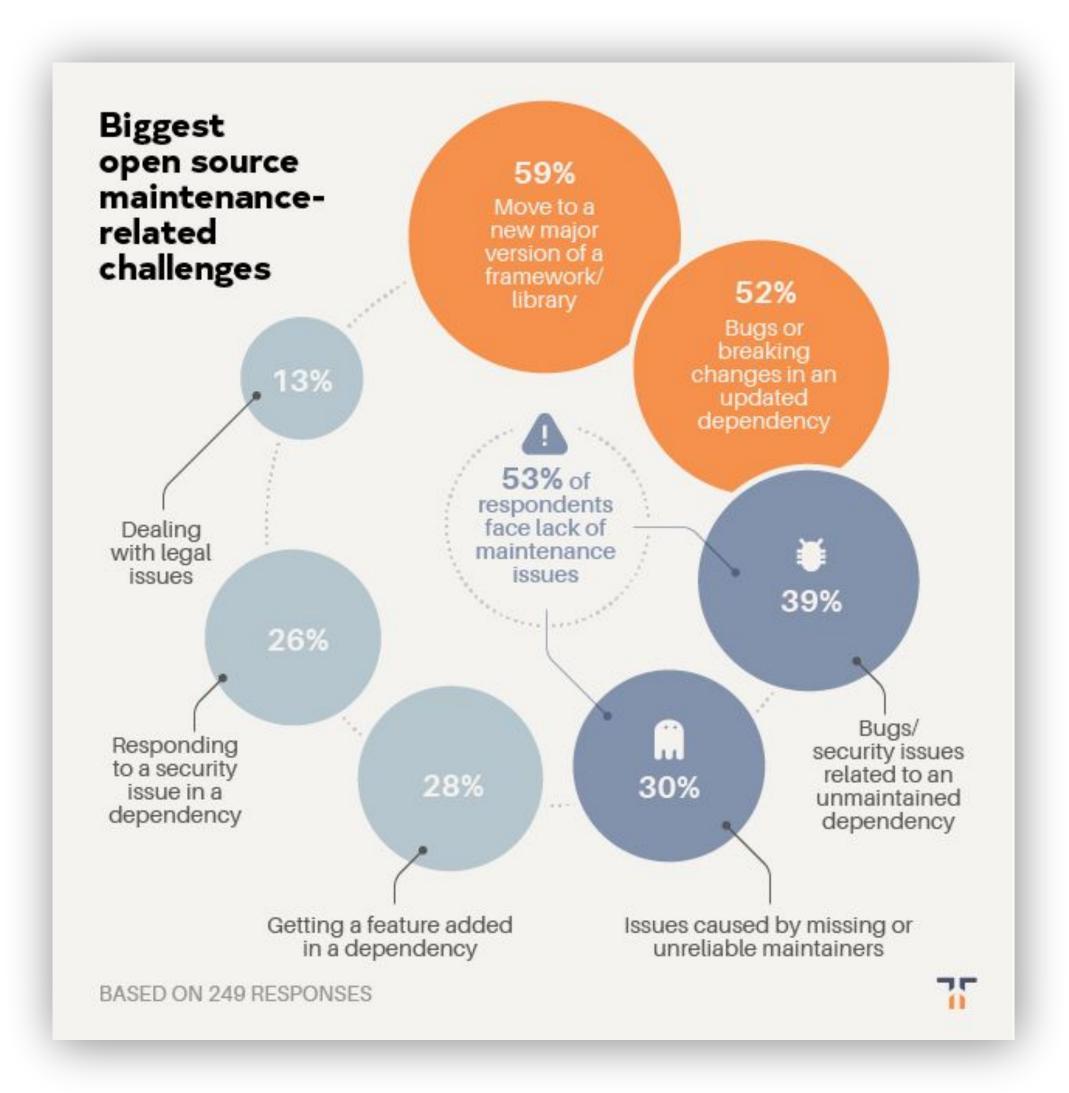
- → Maintenance
- → Security
- → Licensing

Source: Tidelift 2019 Managed open source survey

Obstacles to increasing use of open source



Unmanaged open source drains productivity



(**7**)

Biggest maintenance challenges include moving to a new major version of a framework or library and bugs or breaking changes in an updated dependency affecting their software supply chain.

Over half of development teams regularly face **challenges related to poorly maintained open source dependencies**.

While taking up valuable time that could be spent writing code

How developers spend their time

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Source: Tidelift 2019 Managed open source survey

Developers spend more time on **code maintenance, testing, and security** issues than they do **writing code**.

What can happen when code isn't professionally maintained?

One example:

event-stream, an npm package with over 100 million downloads and no active maintainer, is taken over by a malicious actor trying to steal bitcoin.

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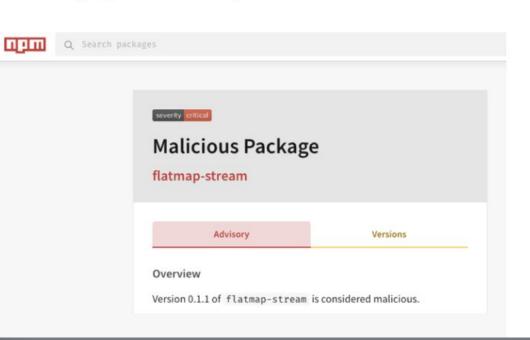
Home > Security

Node.js Event-Stream Hack Exposes Supply Chain Security Risks

By: Sean Michael Kerner | November 27, 2018



NEWS ANALYSIS: Simply trusting that code taken from an upstream GitHub project repository is safe is not a good practice for maintaining application security.



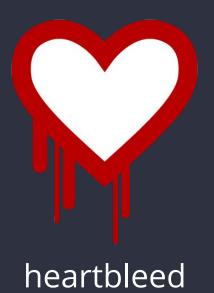
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Modern applications are often built with a jigsaw puzzle array of pieces that all fit together to enable a full stack of functionality.

The challenge from a security perspective is that not every organization or application properly validates all the different puzzle pieces, which can be a risky proposition. Case in point, on Nov. 26 it was publicly revealed that a widely deployed open-source Node.js programming language module known as event-stream had been injected with malicious code that looked to

Other horror stories





AND UTILIZE OPEN SOURCE TO ITS FULL POTENTIAL

How can development teams using open source address these issues?

A historical analogy: life before cloud computing?

15 years ago if you were launching a new SaaS app you would need to:

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- → Rent space from a reputable hosting facility
- Buy and install servers to ensure your app has appropriate backup / failover
- Configure all of the software you need on those servers
- When something goes physically wrong with a server, drive or fly to the hosting facility, swap it out, install software updates, etc.

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Today, same scenario:

→ AWS or another cloud provider takes care of hosting, you take care of your app

Yet when it comes to the numerous open source components our apps rely on, today development teams still carry the burden themselves.



The Tidelift Subscription Managed open source for application development teams

The Tidelift Subscription is a managed open source subscription for application dependencies covering millions of community-led open source projects across JavaScript, Python, Java, PHP, Ruby, .NET, and more.

THE SOLUTION

Save time. Reduce risk. Improve code health.





Enterprise-ready open source software managed for you

Tidelift uses a layered approach to keep your open source dependencies trouble-free and enterprise-ready.

Tools. We provide tools to keep track of all the dependencies you use, flag issues, and enforce policies.

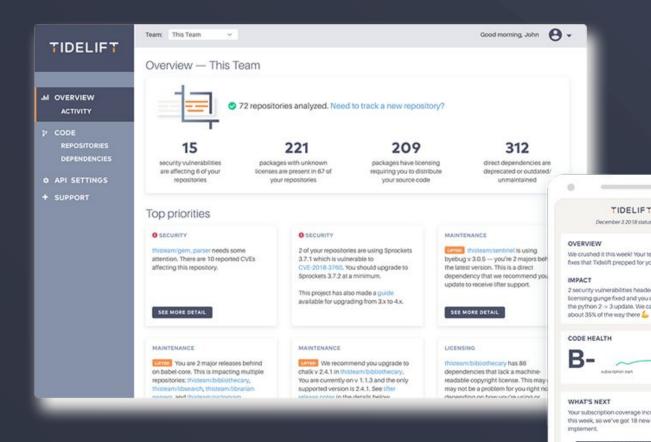
Management. We manage core, mission-critical packages on your behalf, including researching and resolving issues so you don't have to anymore.

Maintainers. We recruit maintainers for many important projects and pay them to proactively prevent problems and address the root causes of issues.



A managed open source subscription backed by maintainers

You purchase a managed open source subscription from Tidelift



Which makes your apps perform better, while becoming more secure and reliable

Maintainers of the packages you use get paid and spend more time making their packages better



"This model helps us move closer to a future where many more maintainers like me can afford to work on their projects full time." —Evan You, founder of Vue



Key benefits of the Tidelift Subscription



Security updates

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Package selection and version guidance

Licensing verification and indemnification



Roadmap input





Maintenance and code improvement



Tooling and cloud integration





Security updates

Tidelift's security response team coordinates patches for new security vulnerabilities and alerts immediately through a private channel, to keep your software supply chain more secure.



Licensing indemnification and verification

Tidelift verifies license information to enable easy policy enforcement and adds intellectual property indemnification to cover creators and users in case something goes wrong. You always have a 100% up-to-date bill of materials for your dependencies to share with your legal team, customers, or partners.



Maintenance and code improvement

Tidelift ensures the software you rely on keeps working as long as you need it to work. Your managed dependencies are actively maintained and we recruit additional maintainers where required.



Package selection and version guidance

We help you choose the best open source packages from the start—and then guide you through updates to stay on the best releases as new issues arise.



Roadmap input

Take a seat at the table with the creators behind the software you use. Tidelift's participating maintainers earn more income as their software is used by more subscribers, so they're interested in knowing what you need.



Tooling and cloud integration

Tidelift works with GitHub, GitLab, Bitbucket, and more. We support every cloud platform (and other deployment targets, too).



Bottom line:

All the capabilities you expect and require from commercial software.

But now, for all of the key community-led open source software you depend on.



The Tidelift Subscription covers application development in JavaScript, Python, Ruby, PHP, Java, .NET, and more



















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CHERRYPY





CHALK



PARAMIKO





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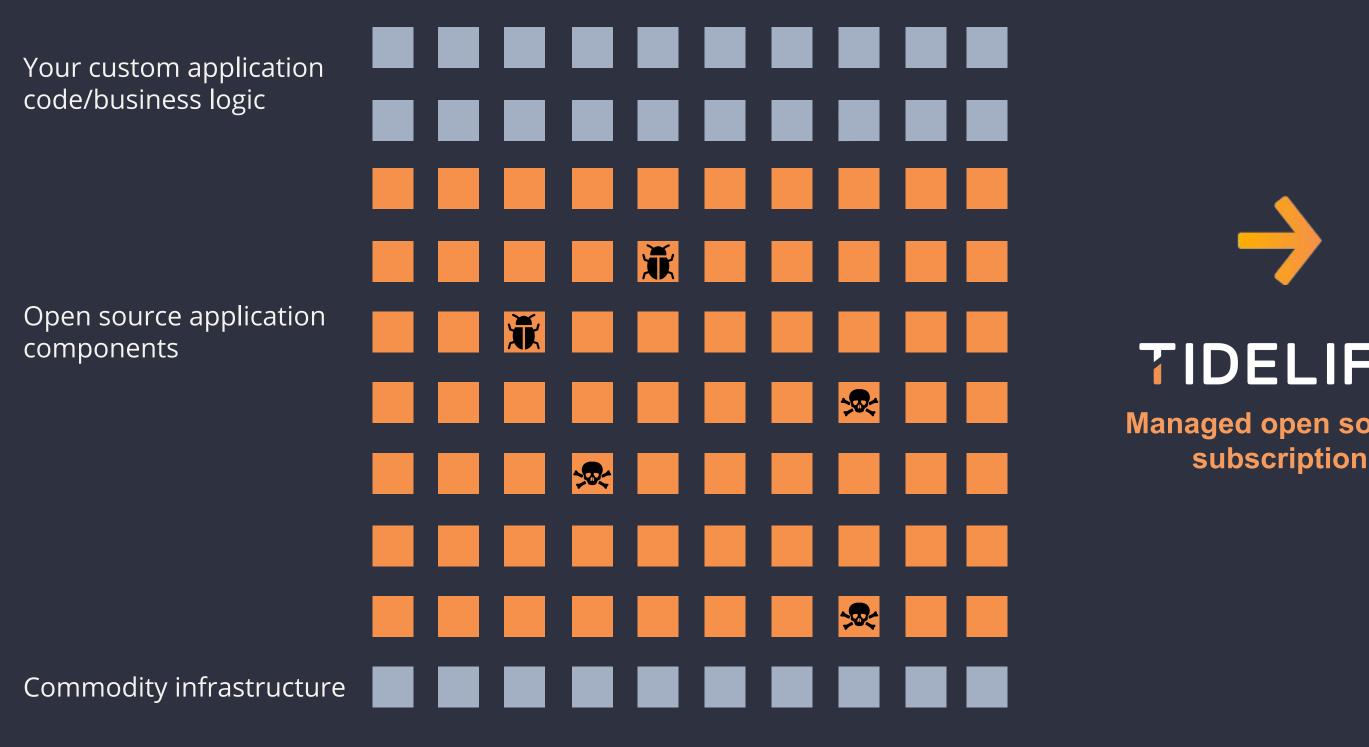






From unmanaged to managed open source

Your stack today



Your stack with Tidelift



