

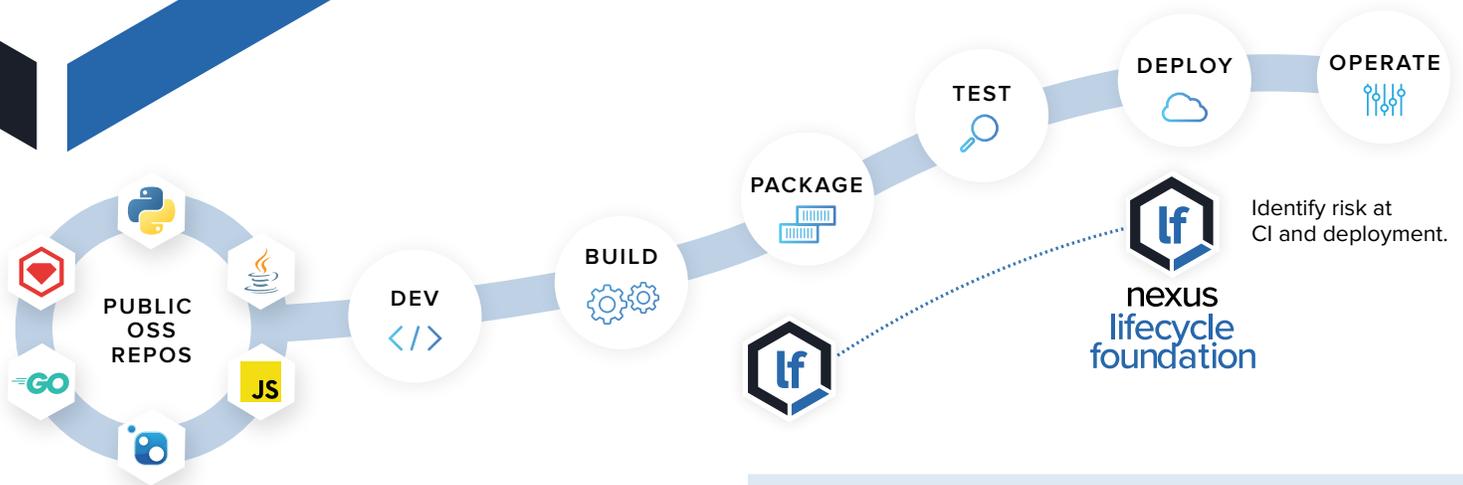


# Nexus Lifecycle Foundation

Identify open source risk in your applications.

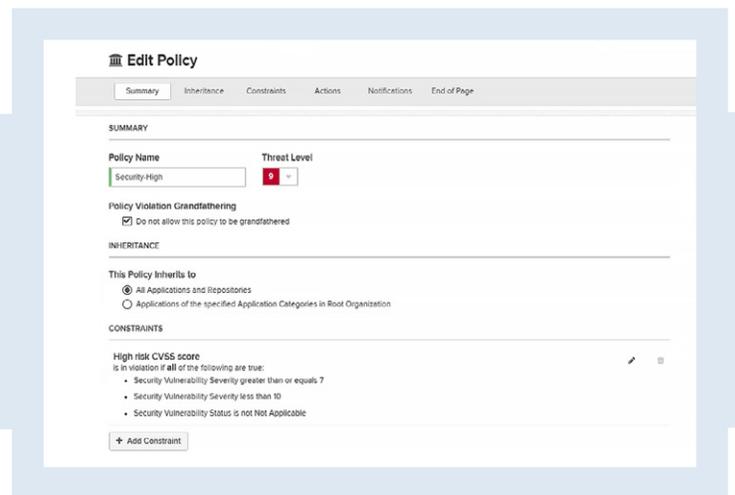
It's no secret. Developers use open source — in fact, 85% of a modern application is comprised of open source components, and unfortunately *one in ten* open source component downloads contain a known security vulnerability. Given this inherent risk, how do organizations ensure they are secure?

**Nexus Lifecycle Foundation provides visibility into open source risk before it's too late.** Integrated into your CI/CD pipeline, you can clearly see if developers are using components that violate your open source policies.



## Create Customized Policies

Create custom security, license, and architectural policies based on application type or organization to automatically identify risk within your applications.



**“We have seen a return on our investment.**

In some cases, where we’ve needed to find out the footprint of a certain library across our enterprise, we’ve been able to do that research in seconds or minutes, rather than long, drawn-out processes with people and teams involved to hunt it down through source code and the like.”

— R. WEBSTER (Financial Services), IT Central Station Review



## Integrate Into Existing CI/CD Pipeline

Integrates with your favorite tools to identify risk during build times, before it's too late.



THREAT	POLICY	COMPONENT
9	License-None	axis: axis-ext: 1.2
9	License-None	java2http: j2h: 1.31
9	Security-High	axis: axis: 1.2
9	Security-High	commons-beanutils: commons-beanutils: 1.6
9	Security-High	commons-collections: commons-collections: 3.2.1
8	License-CopyLeft	javax.mail: mailapi: 1.4.2
7	Security-Medium	commons-fileupload: commons-fileupload: 1.3.3
7	Security-Medium	javax.mail: mail: 1.4.2
5	License-Non Standard	commons-logging: commons-logging: 1.0.4
5	License-Non Standard	hsqldb: hsqldb: 1.8.0.10
1	Architecture-Quality	apache-log4j: log4j: 1.2.8
1	Architecture-Quality	axis: axis-jaxrpc: 1.2
1	Architecture-Quality	axis: axis-saaj: 1.2
1	Architecture-Quality	commons-beanutils: commons-beanutils: 1.6

## Automatically Generate a Software Bill of Materials

Verify policy compliance by knowing what components are used and where. In just minutes, generate a precise software BoM for each app to identify every open source component along with its dependencies.

## Eliminate Risk with Expert Remediation Guidance

Sonatype employs more than 65 security researchers to review every open source vulnerability and provide expert remediation guidance. Whenever new vulnerabilities are disclosed or discovered, our team immediately validates the exploit path, identifies the root cause, and creates actionable information to help organizations (and development teams) evaluate, triage, and remediate threats faster than adversaries can attack.

**Repository results for maven-central**  
 Oldest evaluation 7 months ago  
 738 COMPONENTS IDENTIFIED  
 56 POLICY ALERTS  
 29 2 50 QUARANTINED COMPONENTS

**Vulnerability Information**

**Policy Threat**  
 License-Banned  
 Security-High

**Explanation**  
 Jackson-databind is vulnerable to Remote Code Execution (RCE). The createBeanDeserializer() function in the BeanDeserializerFactory class allows untrusted Java objects to be deserialized. A remote attacker can exploit this by uploading a malicious serialized object that will result in RCE if the application attempts to deserialize it.

**Note:** This vulnerability exists due to the incomplete fix for CVE-2017-7525

**Detection**  
 The application is vulnerable by using this component, when default typing is enabled and passing in untrusted data to be deserialization.

**Note:** Spring Security has provided their own fix for this vulnerability (CVE-2017-4995). If this component is being used as part of Spring Security, then you are not vulnerable if you are running Spring Security 4.2.3.RELEASE or greater for 4.x or Spring Security 5.0.0.M2 or greater for 5.x.

**Recommendation**  
 There is no non vulnerable version of this component. Despite there being a fix provided by Jackson, it uses a black-list approach. If there is another class not black-listed which performs deserialization on the classpath, then this may lead to code

**nexus iq server**  
 by Sonatype

**gnupg2 : 2.1.18-8-deb9u4**

**COMPONENT INFO** POLICY SIMILAR OCCURRENCES LICENSES VULNERABILITIES LABELS AUDIT LOG

**Recommended Version(s)**  
 No recommended versions are available for the current component

**Selected Version: 2.1.18-8-deb9u4**  
 name: gnupg2  
 version: 2.1.18-8-deb9u4  
 Declared License:  
 Observed License:  
 Effective License: -  
 Highest Policy Threat: 3 within 2 policies  
 Highest CVSS Score: 3 within 2 security issues  
 Cataloged: -  
 Match State: exact  
 Identification Source: Clair  
 Category:

**Version Graph**

Popularity

Order This Version Newer

**Policy Threat**  
 Details

Click on the graph above to see details about different versions

Close Previous Next

3	Security-Low	gnuc: 2.24-11-deb9u4
3	Security-Low	gnupg2 : 2.1.18-8-deb9u4

## Identify and Fix Container Vulnerabilities

With integration to Red Hat Clair, you can view open source risk at all layers of the container (runtime, operating system, and application levels) within existing dashboards and reports. Use Nexus Lifecycle's flexible policy engine to govern open source risk within the entire container.

## Key Benefits of Nexus Lifecycle Foundation

- ✓ Security teams sleep better at night knowing exactly what open source components are being used and if they pose any risk to the organization.
- ✓ Integrates into your existing CI/CD pipeline to monitor every build for open source policy violations.
- ✓ Provides the most advanced remediation guidance to quickly resolve issues.



Sonatype is the leader in software supply chain automation technology with more than 300 employees, over 1,000 enterprise customers, and is trusted by over 10 million software developers. Sonatype's Nexus platform enables DevOps teams and developers to automatically integrate security at every stage of the modern development pipeline by combining in-depth component intelligence with real-time remediation guidance.

For more information, please visit [Sonatype.com](https://www.sonatype.com), or connect with us on [Facebook](https://www.facebook.com/sonatype), [Twitter](https://twitter.com/sonatype), or [LinkedIn](https://www.linkedin.com/company/sonatype).