NEXUS LIFECYCLE

Sonatype's Nexus portfolio helps organizations build better software, even faster. Similar to a manufacturing production line with a supply chain of parts, applications are built by assembling open source and third party components from a wide variety of public and proprietary sources. Assembling software from existing components enables teams to deliver great features faster and more cost effectively. However, the management of components is complex, time-consuming, and can leave organizations vulnerable to security and licensing risks.

In fact, due to the lack of visibility in current development tools, it is not uncommon for an organization to unknowingly use components with critical security defects or license issues, which then require time and money to update or replace them later.

Not long ago, the manufacturing industry was transformed by applying three basic principles:

- use fewer and better suppliers
- use higher quality parts
- track what is used and where

Nexus Lifecycle applies these software supply chain optimization principles to the components flowing into and through your development organization. By eliminating unnecessary complexity, rework and manual effort across the software life cycle, you'll accelerate development while increasing efficiency and quality.

KEY BENEFITS

Continuous Visibility

Bill of Materials
In just minutes, Nexus Lifecycle generates a complete and precise inventory of all open source and third-party components, including dependencies, used during builds or in production applications. All components are identified by advanced binary fingerprinting and are listed with attributes such as version, age, popularity, potential license issues and known security vulnerabilities.

Continuous Monitoring

Not only does Nexus Lifecycle maintains a complete inventory of components, but it also constantly monitors for changes, providing automatic alerts when new issues are detected. The dashboard tracks components used in each application and the nature and location of problematic components. Nexus Lifecycle eliminates time-consuming requests to manually inventory components to determine if you're impacted by a new security vulnerability alert.

The dashboards can also be used by legal and application security teams to easily conduct accurate audits for compliance purposes and prioritize responses for at-risk components.

Development Tool Integrations

Nexus Lifecycle meets the rigorous demands of leading development teams by building visibility and control directly into common tools used in DevOps setups, including Jenkins, Hudson, Bamboo and others. These native integrations result in the fastest builds, compliance checks, and remediation of discovered issues. No other solution is as easy, comprehensive, or fast.

Continuous Control

Frictionless Quality Controls

Developers need to be empowered with information, not burdened with inflexible rules. While it looks good on paper, policies governing component quality and integrity are seldom enforceable and are often seen as distractions that slow down development momentum. When development stops or slows because of policy constraints, there is a good chance the process will be circumvented. With Nexus Lifecycle, policies governing component use work at the speed of development.

Rapid Feedback. Avoid Rework

Speed, efficiency and quality requires that your development teams have the component intelligence they need to make the best decisions right from the start, built into the tools they use every day. With rapid feedback easily available at the right place and the right time, developers can choose the best quality component just as easily as a defective one—usually in just one click—and avoid dreaded rework later to address license or security issues. More than 33 percent of organizations report at least one breach in an open source every year—all the more reason why leading development organizations are moving away from ineffective report-based policies and manual reviews and choose instead to automate policies with Nexus Lifecycle. It's a win-win: good for developers and good for the organization.

Easily Establish Appropriate Policies

In some organizations, the word "policy" had just as well be a four letter word. Not so with Nexus Lifecycle. You can get started with the out-of-the-box policies developed by Sonatype experts with many years of experience, or you can customize your own. Many organizations use the information available in the Nexus Lifecycle dashboard to identify and benchmark usage patterns to establish policies that will target and reduce the most serious concerns while reducing friction for those working within accepted guidelines. Policy workshops are also available to get you off to a good start with policy best practices.

Easy, Automated Enforcement

Unlike any other solution, Nexus Lifecycle automates policies that govern component usage and human effort is required only to evaluate the exceptions. This eliminates the need for quality assurance, legal or application security teams to manually assess and approve components. Nexus Lifecycle ensures that quality and integrity guidelines are followed at every stage of the development life cycle, regardless of whether you have one build a month or thousands every day. Nexus Lifecycle delivers rapid feedback to departments based on factors you choose so that key teams know when an undesirable component is being used.
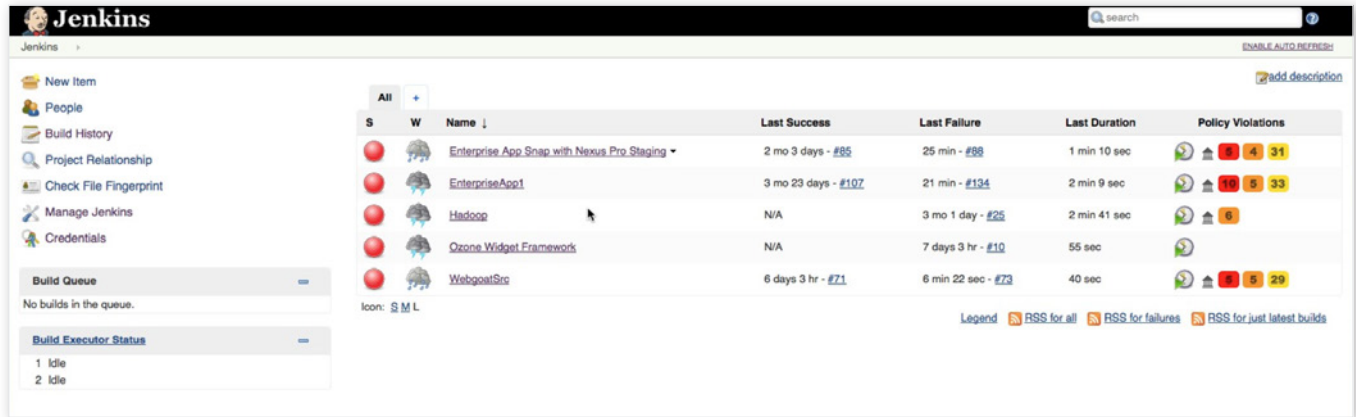
Easy to install. Easy to learn.

Hours, Not Months

Most of our customers have their Nexus Lifecycle environments up and running and integrated with their development tools within an hour or two. And when it comes to training, they tell us that most developers are up to speed within about 30 minutes. Even so, when you need training or support, we'll be there for you.
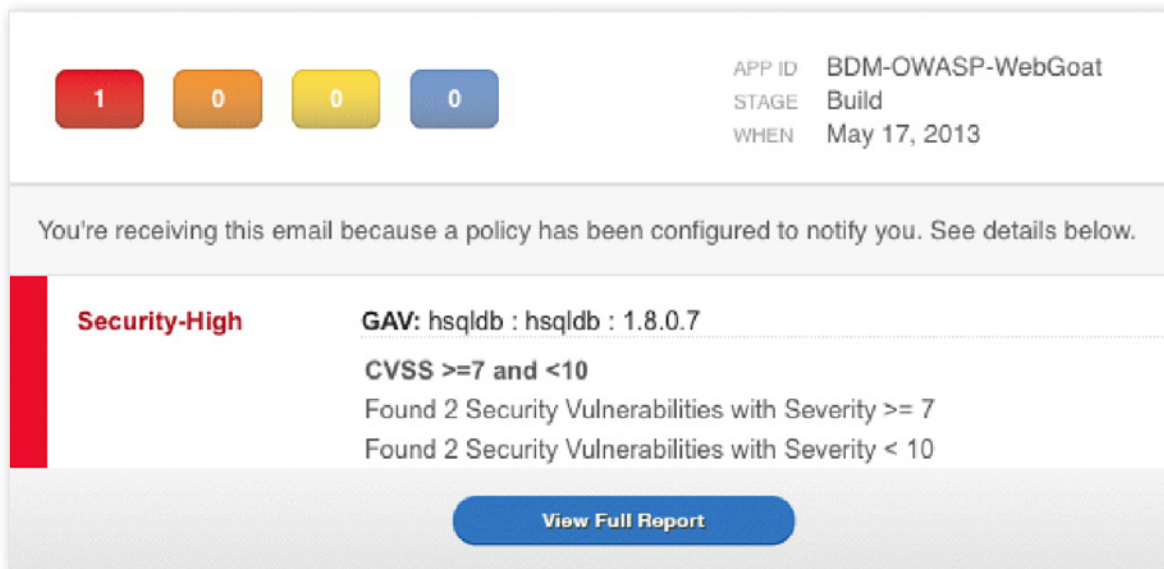
Policy Assistance

To refine your processes and ensure your success with Nexus Lifecycle, we offer a number of customer success services, including a quickstart workshop to ensure your implementation follows best practices, a policy workshop to ensure your policies meet your corporate guidelines without interrupting development flow, and a workshop focusing on how developers can use the product most effectively. We mentor policy stakeholders, guide them through the evolution to automated policies, and determine the right enforcement point strategies. The right approach will ensure your quality and risk objectives are met, while enabling your teams to move faster with less disruption.

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NEXUS SOLUTIONS AT-A-GLANCE

Nexus Lifecycle is one of Sonatype's Software Supply Chain Automation solutions and features the Sonatype IQ Server. To meet the needs and priorities of all organizations, Sonatype offers different integration points so that component intelligence and policy management can be lever-aged in different ways across the life cycle. Please use the chart below to compare our various solutions, or for more detailed information go to www.sonatype.com/nexus/try-compare-buy/compare

	Repository Management	Software Supply Chain Automation							
	Repository Manager	IQ Server	Key Integration Points				Additional Integrations		
	Full-featured component warehouse & distribution manager	Software supply chain intelligence & policy management	Repository	IDE	CI Server	Staging/ Release	SonarQube	Command Line (CLI)	Custom (API)
☰ Nexus Repository	●								
☰ Nexus Auditor		●						●	
☰ Nexus Firewall		●	●			●			
☰ Nexus Lifecycle		●		●	●	●	●	●	●

Sonatype helps organizations build better software, even faster. Like a traditional supply chain, software applications are built by assembling open source and third party components streaming in from a wide variety of public and internal sources. While re-use is far faster than custom code, the flow of components into and through an organization remains complex and inefficient. Sonatype's Nexus platform applies proven supply chain principles to increase speed, efficiency and quality by optimizing the component supply chain. Sonatype has been on the forefront of creating tools to improve developer efficiency and quality since the inception of the Central Repository and Apache Maven in 2001, and the company continues to serve as the steward of the Central Repository serving 17.2 Billion component download requests in 2014 alone. 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