

Nexus Repository OSS vs. Pro

Generally speaking, Nexus Repository OSS is for those investigating binary artifact repository management, small teams, or those with simple repository management requirements. Most organizations find that Nexus Repository Pro delivers the additional features and support that they need as they go into production or as their requirements grow.

Consider [Nexus Repository Pro](#) if any of the following benefits apply to your organization:

1. Professional Support

When you invest in Nexus Repository Pro, you are ensuring support from the team that created the industry standard in repository management. With Nexus Repository Pro, you not only get the industry-leading repository manager, you get the peace of mind that help is just a phone call away.

Sonatype also offers an array of implementation and migration services for organizations looking for an extra level of assistance.

2. High Availability Clustering (HA-C)

Improve uptime by having a cluster of redundant Nexus Repository nodes (instances) within a single data center. Multiple proxies behind a load balancer ensure that your developers will always have access to the latest components.

By maintaining availability, in the event that one of the nodes becomes unavailable, you will eliminate unplanned downtime and be able to **deliver on time, all the time** with configurations built on the enhanced proxy capabilities of Nexus Repository Pro.

3. Dynamic Storage

If you are managing hundreds — perhaps thousands — of hosted applications on Nexus Repository, you are likely to be familiar with the pitfalls of managing disk capacity. Constant builds and commits to your internal repositories not only consume storage while the application grows, but they also affect system performance.

Dynamic storage allows you to configure your binary content across multiple storage devices. You can add and remove storage locations on the fly, while Nexus Repository is serving user requests, and your content will migrate for you. Binary storage 'groups' can even include a mix of file- and S3-based storage locations.

4. Custom Metadata Tagging

Tagging provides the ability to mark a set of components so they can be logically associated with each other. There are many uses for these tags, but the most common scenarios would be a CI build ID for a project (e.g. project-abc-build-142) or a higher level release train when you need to coordinate multiple projects together as a single unit (e.g. release-train-13).

Tagging is used extensively by the staging feature in Nexus Repository Pro.

5. Staging & Build Promotion

The staging functionality supports promotion of software components matching your organization's software development life cycle phases by moving those components between repositories. This allows the creation of isolated release candidates that can be discarded or promoted, making it possible to support the decisions that go into certifying a release.

Using the Staging & Build Promotion feature, your operations, quality assurance, and development teams can use Nexus Repository Pro as a central point of collaboration. You will improve your development processes with a controlled workflow from development, through QA and release that ensures components meet your requirements before they're promoted to the next stage.

6. Detailed Repository Health Check

Repository Health Check analyses your entire repository and reports back with a full summary of the popularity, license type, and known security vulnerabilities for every open source component within. By considering specific details from the Security Vulnerability and License Analysis summary reports, developers will have the information they need to choose the best components while avoiding license and security risks.

7. Auth Token Support

The user token feature for Nexus Repository Pro establishes a two-part token for the user. Usage of the token acts as a substitute method for authentication that would normally require passing your username and password in plain text.

This is especially useful where single sign-on solutions like LDAP are used for authentication against the repository manager and other systems, and the plain text username and password cannot be stored in, for example, the Maven configuration file (settings.xml) following security policies. In this scenario, the generated user tokens can be used instead.

8. Enterprise Security System

Nexus Repository Pro integrates with your existing LDAP or Atlassian Crowd security systems to enable single sign-on and ensure consistent access controls across all your development tools.

While Nexus Repository OSS provides basic LDAP support, Nexus Repository Pro adds several key features, including external user role mapping, server mirroring, authentication caching, multiple server support, and multiple schema support. It has been tested with popular LDAP servers such as OpenLDAP, and Microsoft Active Directory Server.



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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, or connect with us on [Facebook](#), [Twitter](#), or [LinkedIn](#).

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