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Why your organization should move to Nexus Repository Pro



This guide is designed to help you when you have encountered the usage limits of Nexus Repository Community Edition. It includes information on three main topics:

- Short-term strategies for getting usage under the limits as quickly as possible
- More drastic options for keeping usage low in the face of organic growth in your development organization
- Guidance on determining whether the Community or Pro edition is most appropriate for your organization

Introduction

Upgrading to Sonatype Nexus Repository Pro is a strategic option for organizations looking to elevate their software development infrastructure, transforming a key DevOps tool into a robust, enterprise-grade solution that supports scalability, security, and operational efficiency.

While Sonatype Nexus Repository Community Edition provides excellent capabilities for small teams and innovators, it does not meet the advanced needs of growing teams and complex projects. This whitepaper aims to highlight the critical advantages of upgrading to the Pro version of Nexus Repository, demonstrating how it can significantly enhance your organization's productivity, security, and overall software quality.

Overview of Enterprise Features with Sonatype Nexus Repository Pro

Switching from Community Edition to Nexus Repository Pro offers several compelling advantages for businesses, including:

- **Enterprise Scale:** Nexus Repository Pro has the enterprise features to support mission-critical operations at scale. Capabilities such as high availability and resilient failover ensure continuous delivery and minimize both production and developer tooling downtime.
- **DevOps Flexibility:** Advanced cleanup options, repository import/export, and content replication facilitate distributed development and improve collaboration across teams.
- **Security and Control:** With advanced authentication options like SAML/SSO and auth tokens, Sonatype Nexus Repository Pro improves security and simplifies user management.

- **Open Source Supply Chain Security:** Nexus Repository Pro's advanced repository health check provides deeper insights into the security and quality of repositories, identifying vulnerabilities and quality issues early to mitigate security risks and avoid rework.
- **Complete Ecosystem Coverage:** Nexus Repository Pro supports all major package formats, build tools, and CI servers, offering a universal binary repository. This saves time and reduces complexity, allowing developers to focus on core tasks.
- **Enterprise Support from Sonatype:** Nexus Repository Pro customers benefit from world-class support and a dedicated customer success team. This ensures quick resolution of issues, expert assistance, faster adoption, and optimized tool usage, maximizing return on investment and helping achieve business goals.

Return on Investment

The operational risks of running large deployments on limited support are significant, and some organizations only discover their need for enterprise-level features and support until after critical issues arise. The true costs of downtime are:

- **Lost Productivity:** When developers are unable to work, product releases are delayed and innovation stalls.
- **Lost Revenue:** Delays in product releases can result in missed sales, extended sales cycles, and customer renewal risk.
- **Recovery Costs:** Hiring contractors and restoring systems is often a non-budgeted cost.
- **Reputation Damage:** Customers and prospects may lose confidence after an outage. Negative press coverage poses a serious brand risk.

Sonatype has seen organizations experience repository downtime costs of $2M for every day of downtime. The costs of downtime will vary for each organization based industry and size, but the longer-term impact is often even more damaging than near-term productivity loss.

In addition to more uptime, organizations who use an enterprise repository see productivity and scalability improvements over free tools. Versus Community Edition, Nexus Repository Pro customers can:

- **Scale up to millions of requests per hour**
- **Cut request latency by 1000x with proactive component replication**
- **Experience 100x less downtime with High Availability and Zero-Downtime Upgrades**

SONATYPE NEXUS REPOSITORY PRO SUPPORTS TEAMS AT SCALE:

- **99.999% uptime**
- **>60B components processed just in December 2024**
- **Trusted by more than 150k organizations globally**

Conclusion

Organizations that upgrade to Sonatype Nexus Repository Pro get more than additional features; they are investing in a more reliable, secure, and efficient development infrastructure. This can lead to improved productivity, reduced downtime, and better management of your software supply chain, ultimately contributing to faster and more secure software delivery.

Appendix: Deep Dive on Pro Features

Once usage has been restored below limits and your pipelines are running smoothly, you should continuously monitor Nexus Repository usage levels to prevent unexpected blocking when the Community Edition limits are exceeded.

Enterprise Scale

- **High Availability (HA) Clustering:** Supports active-active high availability configurations, allowing you to achieve your business SLAs for your continuous delivery and DevOps toolchains. Minimizes downtime and improves reliability, which is crucial for organizations seeking uninterrupted operations.
- **Resilient Failover:** Enhances system reliability and reduces downtime to minutes, minimizing disruption and maintaining service continuity.
- **Zero Downtime Upgrades:** Ensures that Nexus Repository is fully operational and accessible to users throughout the upgrade process, allowing you to seamlessly update your repository without interrupting your workflows. This is highly essential for businesses that rely on high availability and continuous delivery.
- **Full Support for Azure and GCP Deployments:** Ensures seamless integration and optimized performance for Nexus Repository across Azure and GCP, enabling reliable and scalable solutions.
- **Cross-region Disaster Recovery:** Provides robust backup and failover capabilities in AWS, ensuring business continuity by replicating data and services across multiple regions for fast recovery in case of a region outage.
- **Runtime Storage Changes and Migration:** Enables flexible management of storage resources as your needs grow. Ensures scalability and adaptability to changing storage requirements, preventing bottlenecks.
- **Docker Subdomain Connector:** Improves scalability for more Docker repositories, reduces misconfiguration risks, and provides ease of administration.

DevOps Flexibility

- **Advanced Cleanup Options:** Provides the option to retain a certain number of versions to keep while effective cleanup takes place. Option to preview the cleanup policy allows admins to make risk-free decisions when configuring cleanup policies.
- **Repository Import / Repository Export:** Allows organizations to bring external content into a repository from any source and provides an easy way for content to be exported to another repository instance.
- **Content Replication:** Facilitates distributed development; improves collaboration and speeds up access to resources across geographically dispersed teams, boosting overall team efficiency.
- **Staging and Tagging**: Allows for more controlled and organized software releases, reducing the risk of errors and improving deployment quality.

Security and Control

- **SAML/SSO and Auth Tokens:** Offers advanced authentication and authorization options, improving security and user management. Reduces the risk of unauthorized access and data breaches.
- **User Tokens:** Provides added security and is especially useful when using single sign-on solutions such as LDAP for authentication.
- **Atlassian Crowd Support:** Contains a security realm that allows Nexus Repository Pro to be configured to authenticate against an Atlassian Crowd instance, for easy single sign-on and identity management.

Open Source Supply Chain Security

- **Advanced Repository Health Check:** Provides deeper insights into the security and quality of your repositories. Identifies vulnerabilities and quality issues early to mitigate security risk and avoid rework.

Complete Ecosystem Coverage

- **Universal Support:** Offers support for all major package formats, build tools, and CI servers, providing a truly universal binary repository. Saves time and reduces complexity, allowing developers to focus on core tasks.

Enterprise Support from Sonatype

- **World-Class Support:** Access professional support from the team that created the industry-standard in repository management. Sonatype's support experts have an average of 15 Years of real-world DevOps experience per team member – providing quick resolution of issues and minimizing downtime for your organization. Sonatype maintains a 93% customer support satisfaction rating.
- **Dedicated Customer Success Team:** Work with our best-in-class Customer Success team to ensure you get the most value out of your investment. Our Success team members help optimize your tool usage and accelerate onboarding; their goal is to put you on track to achieve your business goals, maximizing your return on investment. Sonatype has a world-class customer NPS score of 62.

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Sonatype is the software supply chain management company. We empower developers and security professionals with intelligent tools to innovate more securely at scale. Our platform addresses every element of an organization's entire software development life cycle, including third-party open source code, first-party source code, infrastructure as code, and containerized code. Sonatype identifies critical security vulnerabilities and code quality issues and reports results directly to developers when they can most effectively fix them. This helps organizations develop consistently high-quality, secure software which fully meets their business needs and those of their end-customers and partners. More than 2,000 organizations, including 70% of the Fortune 100, and 15 million software developers already rely on our tools and guidance to help them deliver and maintain exceptional and secure software. For more information, please visit **Sonatype.com**, or connect with us on **Facebook**, **Twitter**, or **LinkedIn**.

Headquarters
8161 Maple Lawn Blvd,
Suite 250
Fulton, MD 20759
USA • 1.877.866.2836

European Office
168 Shoreditch High
St, 5th Fl
London E1 6JE
United Kingdom

APAC Office
60 Martin Place,
Level 1
Sydney 2000, NSW
Australia

Sonatype Inc.
www.sonatype.com

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