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Why Should Your Organization Choose Nexus Repository Pro?

Introduction

Sonatype Nexus Repository Pro is the strategic choice for organizations that require a powerful and secure **DevOps** infrastructure. It elevates software development infrastructure and transforms a key DevOps tool into a robust, enterprise-grade solution that supports **scalability**, **security**, and **operational efficiency**.

For small teams, open-source projects, and basic dependency management, Sonatype Nexus Repository Community Edition provides excellent capabilities but doesn't meet the advanced needs of growing teams and complex projects. This whitepaper highlights the critical advantages of selecting Nexus Repository Pro by demonstrating how it can significantly enhance your organization's productivity, security, and overall software quality.
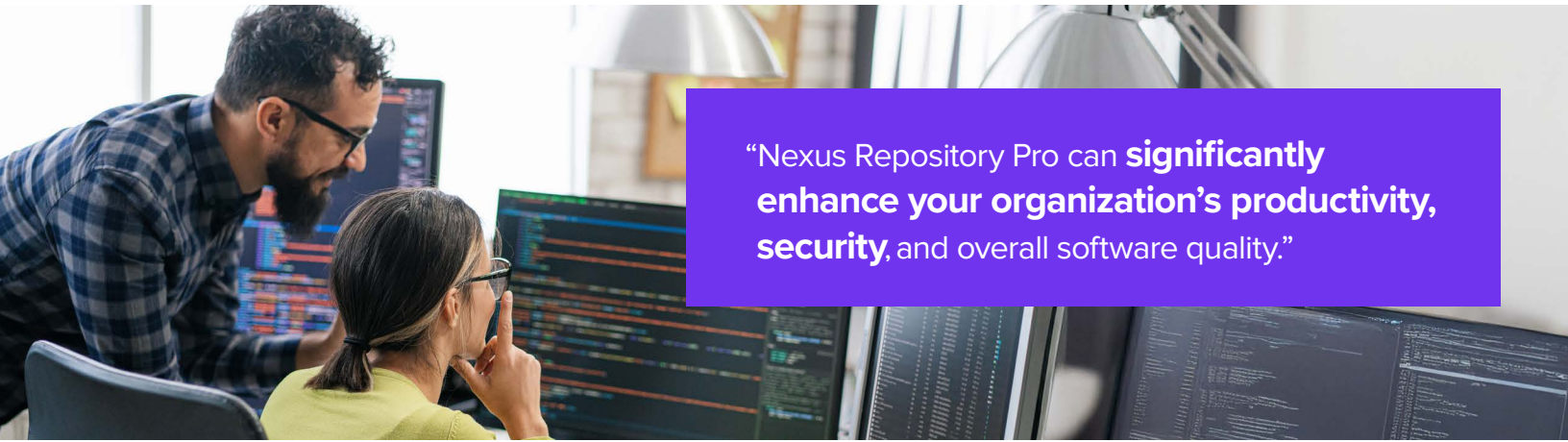
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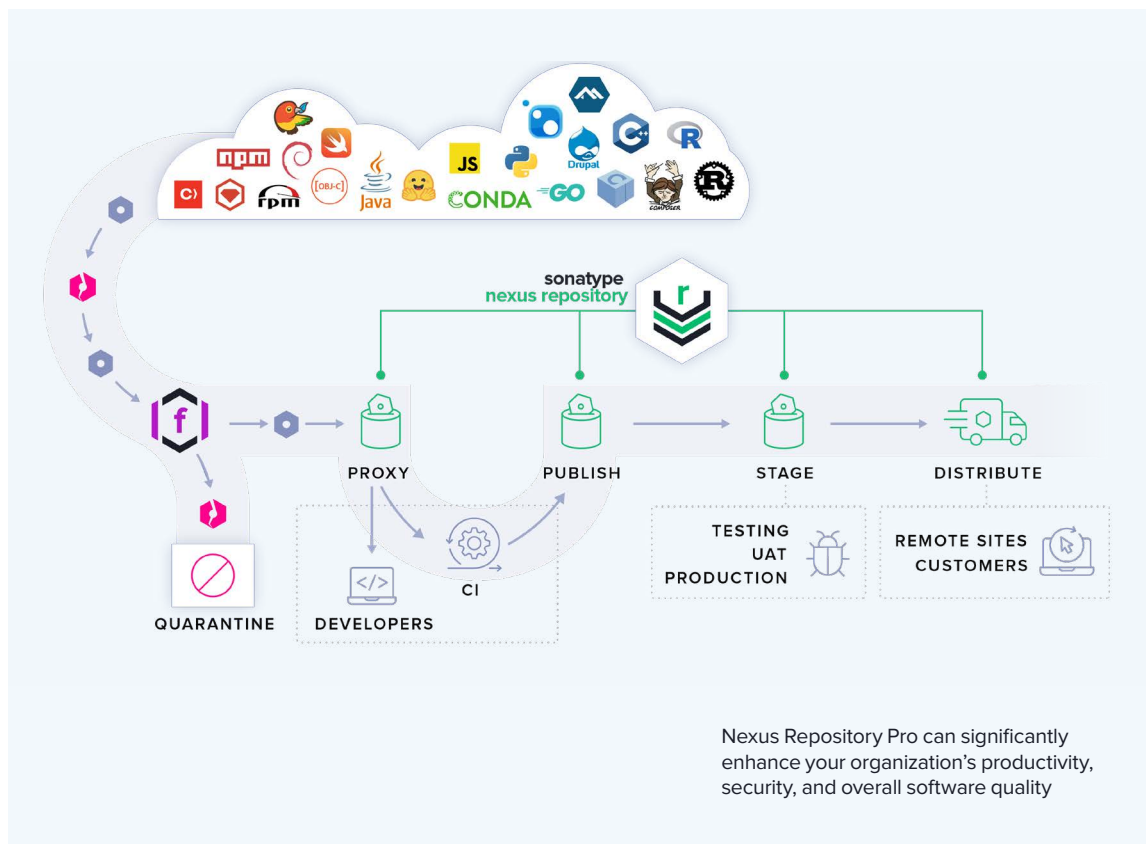
Enterprise-Grade Features with Sonatype Nexus Repository Pro

Choosing Nexus Repository Pro equips your business with advanced capabilities that enhance reliability, performance, and security.

- **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.Malware and open source malware may sound like two sides of the same coin, but prevention and remediation are different for each. Traditional endpoint protection solutions are targeted towards traditional malware, but have not yet focused on covering the open source ecosystem so are completely ineffective at preventing or detecting open source malware.

"Nexus Repository Pro can **significantly enhance your organization's productivity, security**, and overall software quality."

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 on industry and size, but the longer-term impact is often even more damaging than near-term productivity loss.

In addition to more uptime, organizations that use an enterprise repository see productivity and scalability improvements over free tools. 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, ensuring a high level of availability.

>60B components processed just a single month

Trusted by more than 150k organizations globally

Conclusion

Selecting Nexus Repository Pro is not just an upgrade—it's an investment in a more secure, reliable, and scalable development infrastructure. By providing unmatched enterprise features, proactive security, and world-class support, Nexus Repository Pro empowers organizations to accelerate software delivery with confidence.

Appendix: Deep Dive on Pro Features

Selecting Nexus Repository Pro is not just an upgrade—it's an investment in a more secure, reliable, and scalable development infrastructure. By providing unmatched enterprise features, proactive security, and world-class support, Nexus Repository Pro empowers organizations to accelerate software delivery with confidence.

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 overallteam 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 security company. We provide the world's best end-to-end software supply chain security solution, combining the only proactive protection against malicious open source, the only enterprise grade SBOM management and the leading open source dependency management platform. This empowers enterprises to create and maintain secure, quality, and innovative software at scale. As founders of Nexus Repository and stewards of Maven Central, the world's largest repository of Java open-source software, we are software pioneers and our open source expertise is unmatched. We empower innovation with an unparalleled commitment to build faster, safer software and harness AI and data intelligence to mitigate risk, maximize efficiencies, and drive powerful software development. More than 2,000 organizations, including 70% of the Fortune 100 and 15 million software developers, rely on Sonatype to optimize their software supply chains. To learn more about Sonatype, please visit **www.Sonatype.com**,