

Sonatype Nexus Repository 3.91.0 Release Notes

Released April 7, 2026

What's New and Noteworthy in This Release?

In Case You Missed It: New Instance Migrator

In Nexus Repository 3.90.2 (March 23, 2026), we introduced a new Instance Migrator, which allows those on OrientDB-based Nexus Migration preserves core configuration and repository data, enabling a seamless transition to a more scalable and supported architecture. You can download the instance migrator for version 3.70.5 from the [OrientDB Downloads page](#) ([orientdb-downloads.html](#)).

Docker Tagging Update for Nexus Repository Images

As of release 3.91.0, Sonatype Nexus Repository has updated its Docker image tagging strategy, making the Alpine-based image the default for deployments.

Support for Swift Group Repository Format

Sonatype Nexus Repository now supports Swift group repositories, enabling you to aggregate multiple Swift package sources into a single repository to improve consistency across development workflows.

For full details, see the [Swift Repositories help documentation](#) ([swift-repositories.html](#)).

Database Connection Pool Metrics Available Through the Metrics API

Sonatype Nexus Repository now exposes database connection pool metrics through the metrics API, providing visibility into active, idle, and failed connections.

Preserved Proxy Repository Configuration During Migration

Sonatype Nexus Repository now preserves authentication credentials and HTTP request settings when migrating proxy repositories. If authentication credentials cannot be securely migrated due to missing encryption configuration, Nexus Repository removes only the credentials and replaces them with placeholder values.

Automated Yum Repository Metadata Regeneration

Sonatype Nexus Repository now automatically regenerates Yum repository metadata during repository migrations, including requirements files.

Global Webhooks for Firewall Quarantine Events

Sonatype Repository Firewall now supports global webhooks for quarantine events, automatically notifying your systems when content is quarantined.

Cloud-Native AWS Reference Architectures for Sonatype Nexus Repository

Sonatype is now providing new cloud-native AWS reference architectures for Sonatype Nexus Repository, replacing the legacy reference architectures to deploy Nexus Repository in AWS with greater consistency and reduced operational overhead.

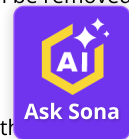
These architectures are now published in the [Platform Cloud-Native Reference Architectures section](#) ([sonatype-platform-reference-architectures.html](#)) for details for each option. The previous Nexus Repository reference architectures are now marked as "Legacy" and will be removed in a future release.

Bug Fixes

This section summarizes the bug fixes included in Nexus Repository 3.91.0, grouped by functional area to highlight the impact of each fix. For individual issues listed below.

npm and PyPI Fixes

These updates focus on improving metadata accuracy, caching behavior, and policy enforcement for npm and PyPI repositories. The



Issue	Description
NEXUS-51537	PyPI group repositories now cache merged package index pages across requests instead of regenerating them
NEXUS-51520	npm group repositories now correctly invalidate cached metadata when upstream proxy repositories apply PCC
NEXUS-51222	Quarantine logs for npm and PyPI repositories now display the specific policy violation that caused versions to be
NEXUS-50764	npm group repositories now maintain accurate package metadata when Policy-Compliant Component Selection
NEXUS-50623	npm group repositories return valid JSON metadata without duplicate <code>_id</code> fields when serving package informa
NEXUS-50574	npm audit requests for projects without dependencies now complete successfully instead of generating error lo
NEXUS-50437	Debug logging now captures the specific IQ policy names, IDs, and threat levels that caused PCCS to filter compo
NEXUS-50428	The "Repair - Rebuild npm metadata" task preserves original package version publish timestamps instead of ov
NEXUS-40915	PyPI group repositories now display all package files from member repositories, including variants that differ on
NEXUS-39228	Group repositories for npm and PyPI now invalidate cached metadata when member proxy repositories apply p
NEXUS-49457	APT proxy repositories now serve cached packages even after their removal from upstream by merging locally c
NEXUS-29440	PyPI proxy repositories support an empty Remote Index Path setting to connect with registries like GemFury and

Docker Fixes

These fixes target Docker repository behavior, focusing on correctness, scalability, and standards compliance. They improve handli

Issue	Description
NEXUS-51199	Deleting a Docker manifest now removes all associated tags automatically, maintaining repository integrit
NEXUS-51155	Docker garbage collection now correctly processes all manifests regardless of the continuation browse lin
NEXUS-50861	Docker repositories now accept image names containing consecutive underscores, aligning with OCI Distr
NEXUS-50808	Docker tag list requests now return a maximum of 10,000 tags (100 pages) per image to prevent system fi
NEXUS-50532	Docker group repositories now return a 504 Gateway Timeout error when firewall cooperative wait timeo
NEXUS-50499	Path-based Docker repositories now evaluate anonymous pull permissions individually, allowing anonym
NEXUS-50471	Docker container startup scripts now prevent duplicate JVM memory parameters from appearing in the co
NEXUS-50384	Docker repositories now recognize and process zstd-compressed layers without triggering unnecessary v
NEXUS-39080	Docker proxy repositories now return HTTP 404 (Not Found) instead of HTTP 400 (Bad Request) when ren

Other Repository Format Fixes

These changes improve compatibility and correctness across a range of repository formats, including Maven, Terraform, Conan, Yu

Issue	Description
NEXUS-51407	Maven proxy repositories with strict content type validation now accept macOS Mach-O executable files (such as p
NEXUS-51152	Swift and Terraform proxy repositories now require HTTP proxy configuration through the Nexus UI (Administrati application restarts.
NEXUS-51145	Terraform proxy repositories now automatically repackage module archives downloaded from Git hosting provide
NEXUS-50616	Hugging Face proxy repositories correctly handle filenames containing spaces and special characters by properly
NEXUS-48863	Terraform CLI can now discover and download modules through standard Terraform Registry API endpoints, inclu
NEXUS-48742	Conan repositories accept metadata files from the Conan 2.0 client, including SBOM files stored in the package m
NEXUS-44583	Maven SNAPSHOT artifacts uploaded directly through the GUI without timestamped versions now display their as
NEXUS-43667	Maven repository cleanup policies based on last downloaded time now correctly evaluate imported components ;
NEXUS-43238	Deleting a folder from the Browse view of a Go repository now removes all associated components and browse n
NEXUS-42338	Yum repositories correctly identify the architecture of signed RPM packages by reading header tags instead of the
NEXUS-37132	Conan proxy repositories now return valid JSON responses ({}) when searching for non-existent packages, allowi

High Availability, Concurrency, and System Stability

These updates improve system resilience under load, particularly in high availability and multi-node environments. They address cc

Issue	Description
NEXUS-51311	Toggling IQ Server capability state completes without causing system deadlocks or UI timeouts.
NEXUS-51301	Disabling IQ Server integration in Nexus Repository Cloud instances completes immediately without
NEXUS-51191	The "Admin - Remove a member from a blob store group" task processes blobs safely when multip
NEXUS-50430	Concurrent asset requests across High Availability nodes retrieve blobs successfully through autom

Issue	Description
NEXUS-48954	Session timeout settings configured in the UI now apply correctly in High Availability deployments,
NEXUS-50504	Container image scanning processes large Go binaries (500MB+) through a streaming parser that n

Blob Stores, Storage, and Data Integrity

These fixes focus on improving reliability and correctness in storage-related operations, including blob store management, migratic

Issue	Description
NEXUS-51248	The secrets migration upgrade task successfully processes proxy repositories that contain trailing w/
NEXUS-51210	Blob store migration tasks for Maven group repositories preserve metadata availability throughout t
NEXUS-50905	S3 blob stores on different endpoints now validate buckets against their own configured endpoint, p
NEXUS-44136	Database migrations between H2 and PostgreSQL now preserve blob store metrics, ensuring accura
NEXUS-42298	Blob store group member removal operations now complete successfully when temporary files are c
NEXUS-39077	Reconcile tasks now preserve the original blob creation timestamp when restoring raw repository as
NEXUS-37039	The "Cleanup unused asset blobs" task now automatically removes orphaned database records whe
NEXUS-51030	Creating proxy repositories via the REST API no longer requires the <code>blocked</code> field, which now default:

UI, Permissions, and User Experience

These updates enhance usability and consistency across the user interface and permission model. They resolve visibility issues, imp

Issue	Description
NEXUS-50761	Repository browsing works correctly for users who have both administrative privileges and conten
NEXUS-50552	The Browse menu appears for users who have Content Selector privileges with browse permission
NEXUS-50163	The user interface handles rapid navigation during page loading without encountering null referer
NEXUS-46560	The Usage Center maintains functionality when sessions expire, preventing null reference errors d
NEXUS-40929	The Health Check column automatically hides from Browse and Repositories pages when IQ Serve
NEXUS-41419	Role editing operations automatically remove references to obsolete privileges rather than returni

Logging, Observability, and Diagnostics

These changes improve visibility into system behavior through enhanced logging and diagnostics. They make it easier to troubleshc

Issue	Description
NEXUS-51164	Warning messages about invalid maven-metadata.xml files now include the repository name for each file.
NEXUS-50510	DEBUG logs now capture blocked outbound requests when SSRF protection prevents access to private repositories.
NEXUS-50322	Staging delete operations now log detailed error information including query parameters when unable to delete.
NEXUS-44075	FluentBit log processing in Kubernetes deployments no longer generates tag prefix errors when parsing logs.
NEXUS-45518	Tag creation, updates, and deletions are now recorded in the audit.log file with details about the tag.
NEXUS-44603	Scheduler health check alerts for auto-recovered task triggers now include instructions directing administrators to check the task status.

Authentication and Security

These fixes strengthen authentication flows and ensure accurate enforcement of access control policies. They address issues with session management, logging out, and database connection failures.

Issue	Description
NEXUS-50529	Session logout operations complete successfully for OIDC-authenticated users whose sessions have expired.
NEXUS-50324	Logging out of Nexus Repository SaaS now fully terminates authentication sessions, requiring users to log in again.
NEXUS-50196	SAML authentication now removes external role mappings from user accounts when their corresponding roles are removed.
NEXUS-39798	Database connection failures during authentication now return HTTP 503 Service Unavailable instead of HTTP 500 Internal Server Error.
NEXUS-20520	REST API endpoints now return HTTP 401 (Unauthorized) when accessed without credentials, and HTTP 403 (Forbidden) when access is denied.

Search and Indexing

These updates improve the reliability and accuracy of search and indexing operations. They address performance limits, ensure correct search results, and improve wildcard searches.

Issue	Description
NEXUS-50813	Tag association operations now complete search index updates before returning success, enabling accurate search results.
NEXUS-50690	npm search queries return results successfully when using PostgreSQL databases.
NEXUS-50251	Search indexing successfully processes components with tens of thousands of associated paths.
NEXUS-50246	Wildcard version searches now match only packages where the version starts with the specified prefix.

Scheduled Tasks and Background Jobs

These fixes improve the reliability and behavior of scheduled and background tasks. They ensure task configurations persist correctly and tasks execute as intended.

Issue	Description
NEXUS-50628	Schedule modifications to the "Admin - Cleanup expired user tokens" task persist across Nexus Re
NEXUS-50585	The Quartz Job Key Unification upgrade task now skips tasks with deprecated or removed type IDs
NEXUS-47043	The Execute Reconcile Plan task now caps its thread pool at 50% of available CPU cores by default
NEXUS-49003	The "Repair - Rebuild repository browse" task displays overall progress across all repositories with

Coming Soon to Sonatype Nexus Repository

Transition to Alpine-Only Docker Images (UBI Deprecation Notice)

Starting with Sonatype Nexus Repository 3.94.0, the Alpine-based image will become the sole supported variant, with both the 3.94

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