

Sonatype Nexus Repository 3.91.0 - 3.91.1 Release Notes

What's New and Noteworthy in 3.91.1?

Released April 17, 2026

Additional Bug Fixes in 3.91.1

The following additional bug fixes are included in 3.91.1:

Issue ID	Description
NEXUS-51509	Concurrent PyPI and npm proxy requests for the same package under Policy-Compliant Component Selection now <code>OutOfMemoryError</code> crashes on IQ Server.
NEXUS-51485	Docker clients now receive a Docker Registry HTTP API V2 compliant error response containing the quarantine exp
NEXUS-51112	Policy-Compliant Component Selection now uses an increased timeout when evaluating metadata for large PyPI p

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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 archit [Instance Migrator help documentation\[instance-migrator.html\]](#) for an in-depth look at the migration process and requirements.

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 continues to reference the UBI-based image. Shifting the default to Alpine lowers risk exposure and improves security posture for c

Support for Swift Group Repository Format

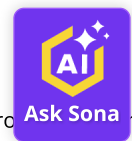
Sonatype Nexus Repository now supports Swift group repositories, enabling you to aggregate multiple Swift package sources into a seamlessly pulling components from multiple hosted, proxy, or group repositories. By consolidating access, you can reduce configu

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

Preserved Proxy Repository Configuration During Migration

Sonatype Nexus Repository now preserves authentication credentials and HTTP request settings when migrating pro [Ask Sona](#) ries over automatically, reducing the need for post-migration setup and ensuring repositories remain operational immediately after mig

If authentication credentials cannot be securely migrated due to missing encryption configuration, Nexus Repository removes only reconfigure sensitive information as needed.



Automated Yum Repository Metadata Regeneration

Sonatype Nexus Repository now automatically regenerates Yum repository metadata during repository migrations, including requirements files, making them immediately usable, eliminating the need for manual metadata repair or post-migration steps.

Global Webhooks for Firewall Quarantine Events

Sonatype Repository Firewall now supports global webhooks for quarantine events, automatically notifying your systems when connectivity is blocked for security and DevOps workflows, reducing the need for manual monitoring.

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 address scalability and performance needs. Each architecture includes Terraform configurations to simplify provisioning and accelerate time to market.

These architectures are now published in the [Platform Cloud-Native Reference Architectures section](#) [sonatype-platform-reference-architectures]. The [Platform AWS Reference Architectures landing page](#) [aws-reference-architectures.html] provides a high-level overview of each architecture. The legacy reference architectures 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 most relevant updates. Each category provides a high-level view of related updates, including those addressing edge cases across supported formats and deployment environments. Each category provides a high-level view of related updates.

npm and PyPI Fixes

These updates focus on improving metadata accuracy, caching behavior, and policy enforcement for npm and PyPI repositories. They address various issues, ensuring correct and performant behavior under concurrent and edge-case scenarios.

Issue	Description
NEXUS-51537	PyPI group repositories now cache merged package index pages across requests instead of regenerating them each time.
NEXUS-51520	npm group repositories now correctly invalidate cached metadata when upstream proxy repositories apply PCCS filtering, ensuring that cache updates propagate correctly when PCCS or IQ policies filter available versions in upstream proxy repositories.
NEXUS-51222	Quarantine logs for npm and PyPI repositories now display the specific policy violation that caused versions to be filtered.
NEXUS-50764	npm group repositories now maintain accurate package metadata when Policy-Compliant Component Selection filtering is applied.
NEXUS-50623	npm group repositories return valid JSON metadata without duplicate <code>_id</code> fields when serving package information.
NEXUS-50574	npm audit requests for projects without dependencies now complete successfully instead of generating error logs.
NEXUS-50437	Debug logging now captures the specific IQ policy names, IDs, and threat levels that caused PCCS to filter components.
NEXUS-50428	The "Repair - Rebuild npm metadata" task preserves original package version publish timestamps instead of overwriting them.
NEXUS-40915	PyPI group repositories now display all package files from member repositories, including variants that differ only in file names.

Issue	Description
NEXUS-39228	Group repositories for npm and PyPI now invalidate cached metadata when member proxy repositories apply polic
NEXUS-49457	APT proxy repositories now serve cached packages even after their removal from upstream by merging locally cach
NEXUS-29440	PyPI proxy repositories support an empty Remote Index Path setting to connect with registries like GemFury and N

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 integrity for sec
NEXUS-51155	Docker garbage collection now correctly processes all manifests regardless of the continuation browse limit settin
NEXUS-50861	Docker repositories now accept image names containing consecutive underscores, aligning with OCI Distribution S
NEXUS-50808	Docker tag list requests now return a maximum of 10,000 tags (100 pages) per image to prevent system failures, c (20,000+).
NEXUS-50532	Docker group repositories now return a 504 Gateway Timeout error when firewall cooperative wait timeouts occu
NEXUS-50499	Path-based Docker repositories now evaluate anonymous pull permissions individually, allowing anonymous pulls Docker repositories.
NEXUS-50471	Docker container startup scripts now prevent duplicate JVM memory parameters from appearing in the commanc active.
NEXUS-50384	Docker repositories now recognize and process zstd-compressed layers without triggering unnecessary validation
NEXUS-39080	Docker proxy repositories now return HTTP 404 (Not Found) instead of HTTP 400 (Bad Request) when remote con malformed.

Other Repository Format Fixes

These changes improve compatibility and correctness across a range of repository formats, including Maven, Terraform, Conan, Yu interactions with upstream tools and clients.

Issue	Description
NEXUS-51407	Maven proxy repositories with strict content type validation now accept macOS Mach-O executable files (such as pro

Issue	Description
NEXUS-51152	Swift and Terraform proxy repositories now require HTTP proxy configuration through the Nexus UI (Administration automatically route through the HTTP proxy configured in Nexus Repository Manager, eliminating the need for man
NEXUS-51145	Terraform proxy repositories now automatically repackage module archives downloaded from Git hosting providers
NEXUS-50616	Hugging Face proxy repositories correctly handle filenames containing spaces and special characters by properly en
NEXUS-48863	Terraform CLI can now discover and download modules through standard Terraform Registry API endpoints, includi
NEXUS-48742	Conan repositories accept metadata files from the Conan 2.0 client, including SBOM files stored in the package met
NEXUS-44583	Maven SNAPSHOT artifacts uploaded directly through the GUI without timestamped versions now display their asse
NEXUS-43667	Maven repository cleanup policies based on last downloaded time now correctly evaluate imported components aft
NEXUS-43238	Deleting a folder from the Browse view of a Go repository now removes all associated components and browse nod
NEXUS-42338	Yum repositories correctly identify the architecture of signed RPM packages by reading header tags instead of the le
NEXUS-37132	Conan proxy repositories now return valid JSON responses ({}) when searching for non-existent packages, allowing

High Availability, Concurrency, and System Stability

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

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 blocking or ca
NEXUS-51191	The "Admin - Remove a member from a blob store group" task processes blobs safely when multiple instances run
NEXUS-50430	Concurrent asset requests across High Availability nodes retrieve blobs successfully through automatic retry logic
NEXUS-48954	Session timeout settings configured in the UI now apply correctly in High Availability deployments, ensuring users
NEXUS-50504	Container image scanning processes large Go binaries (500MB+) through a streaming parser that maintains const

Issue	Description
NEXUS-50167	Added support for configuring pod-level <code>securityContext</code> in the Sonatype Nexus Repository HA helm chart StatefulSet storage deployments.

Blob Stores, Storage, and Data Integrity

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

Issue	Description
NEXUS-51248	The secrets migration upgrade task successfully processes proxy repositories that contain trailing whitespace in their metadata.
NEXUS-51210	Blob store migration tasks for Maven group repositories preserve metadata availability throughout the operation.
NEXUS-50905	S3 blob stores on different endpoints now validate buckets against their own configured endpoint, preventing incorrect bucket access.
NEXUS-44136	Database migrations between H2 and PostgreSQL now preserve blob store metrics, ensuring accurate counts and sizes.
NEXUS-42298	Blob store group member removal operations now complete successfully when temporary files are deleted by the system.
NEXUS-39077	Reconcile tasks now preserve the original blob creation timestamp when restoring raw repository assets from a backup.
NEXUS-37039	The "Cleanup unused asset blobs" task now automatically removes orphaned database records when their associated blobs are deleted.
NEXUS-51030	Creating proxy repositories via the REST API no longer requires the <code>blocked</code> field, which now defaults to <code>false</code> .

UI, Permissions, and User Experience

These updates enhance usability and consistency across the user interface and permission model. They resolve visibility issues, improve navigation, and clarify role-based access.

Issue	Description
NEXUS-50761	Repository browsing works correctly for users who have both administrative privileges and content selector permissions.
NEXUS-50552	The Browse menu appears for users who have Content Selector privileges with browse permissions, matching the expected behavior.
NEXUS-50163	The user interface handles rapid navigation during page loading without encountering null reference errors.
NEXUS-46560	The Usage Center maintains functionality when sessions expire, preventing null reference errors during data retrieval.
NEXUS-40929	The Health Check column automatically hides from Browse and Repositories pages when IQ Server Firewall is not available.
NEXUS-41419	Role editing operations automatically remove references to obsolete privileges rather than returning an error message.

Logging, Observability, and Diagnostics

These changes improve visibility into system behavior through enhanced logging and diagnostics. They make it easier to troubleshoot issues and monitor system health.

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

Authentication and Security

These fixes strengthen authentication flows and ensure accurate enforcement of access control policies. They address issues with s

Issue	Description
NEXUS-50529	Session logout operations complete successfully for OIDC-authenticated users whose sessions have expired, ret
NEXUS-50324	Logging out of Nexus Repository SaaS now fully terminates authentication sessions, requiring users to re-enter
NEXUS-50196	SAML authentication now removes external role mappings from user accounts when their corresponding group
NEXUS-39798	Database connection failures during authentication now return HTTP 503 Service Unavailable instead of HTTP 4
NEXUS-20520	REST API endpoints now return HTTP 401 (Unauthorized) when accessed without credentials, and HTTP 403 (For

Search and Indexing

These updates improve the reliability and accuracy of search and indexing operations. They address performance limits, ensure cor

Issue	Description
NEXUS-50813	Tag association operations now complete search index updates before returning success, enabling immedia
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 by limiting p
NEXUS-50246	Wildcard version searches now match only packages where the version starts with the specified pattern, pre

Scheduled Tasks and Background Jobs

These fixes improve the reliability and behavior of scheduled and background tasks. They ensure task configurations persist correc

