

NetWitness[®] Platform

Version 12.4.1.0

Release Notes

Contact Information

NetWitness Community at <https://community.netwitness.com> contains a knowledge base that answers common questions and provides solutions to known problems, product documentation, community discussions, and case management.

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What's New in 12.4.1.0 Release

The NetWitness 12.4.1.0 Release Notes describe new features, enhancements, security fixes, upgrade paths, fixed issues, known issues, end-of-life functionality, build numbers, and self-help resources.

Enhancements

The following sections are a complete list and description of enhancements to specific capabilities:

- [Event Stream Analysis](#)
- [User and Entity Behavior Analytics](#)
- [Insight](#)
- [Concentrator, Decoder, Log Collector, and Archiver Services](#)
- [Log Integrations](#)
- [Security](#)

To locate the documents that are referred to in this section, see <https://community.netwitness.com/t5/netwitness-platform-online/netwitness-platform-all-documents/tap/676246>.

The [Product Documentation](#) section has links to the documentation for this release.

Event Stream Analysis

The following section describes the new enhancements for Event Stream Analysis (ESA) component:

Event Stream Analysis (ESA) Disaster Recovery Failover

The NetWitness Platform enables administrators to perform smooth failovers with minimal processes and tools involved in the entire design, making it easier for the clients to minimize downtime during service interruptions.

Administrators can set up an ESA Primary Standby node in the event of a disaster or unplanned outage of the original active ESA Primary node. Recovery involves switching from the active ESA Primary node to the ESA Primary Standby node by taking Mongo and configuration backups of the active ESA Primary system and restoring them to the ESA Primary Standby with the required configurations to ensure uninterrupted access to ESA correlation and context hub services.

The new ESA Primary Standby node should be configured with its unique IP and host details, ensuring a seamless setup process that is not hindered by prior configurations.

For more information on how to perform the ESA DR failover, see [NetWitness Deployment Guide for 12.4.1](#).

User and Entity Behavior Analytics

The following section describes the new enhancements for UEBA component:

Deprecation of JA3 Entity from UEBA

NetWitness no longer supports JA3 as an entity for UEBA, starting from version 12.4.1. This change is implemented because JA3 is identified as an unreliable client identification method. The effectiveness of JA3 fingerprinting in determining the true identity of clients is no longer accurate due to the adoption of client TLS extension randomization. With randomization, a single client can have numerous JA3 fingerprints instead of just one. This makes it difficult for UEBA to accurately distinguish between normal and malicious activity.

For more information, see *NetWitness UEBA User Guide for 12.4.1*.

Insight

This section describes the functional improvements made to the Insight component:

Improved Network Assets Identification and Classification

This release introduces improvements to the NetWitness Analytics network asset identification process to ensure accurate classification and reduce misconfigurations.

- If users are running Port Scanners in their environment, it is important to remember that these Port Scanners can generate significant traffic. Such traffic could impact the NetWitness Analytics and result in misclassification of servers as clients, affecting enterprise network exposure, peer network exposure rankings, asset category, and detection accuracy for each asset. To prevent network asset misclassification, contact [NetWitness Customer Support](#) and provide them with the list of Port Scanner IPs. Your information will be used by NetWitness Analytics to improve asset identification and classification.
- If users do not follow the RFC 1918 standard and use a different standard to define their internal IP addresses, NetWitness Analytics may not recognize them correctly. As a result, some internal assets may be classified as external assets or vice versa. To avoid this issue, contact [NetWitness Customer Support](#) and provide them with your internal IP ranges. Your information will be used by NetWitness Analytics to improve asset identification and classification.

Concentrator, Decoder, Log Collector, and Archiver Services

The following enhancements are made for Concentrator, Decoder, Log Collector, and Archiver Services in 12.4.1.0 version:

Improved Packet Decoder Parsing with Maximum Parse Limit Per Protocol

NetWitness Platform optimizes the Packet Decoders for the most effective detection and investigation, balancing high performance with depth of visibility.

Administrators can now change the scanning depth limit depending on the detected protocol. Additionally, different `parse.bytes.max` for each protocol can be set to focus on parsing and generating metadata for more valuable sessions.

Improved Packet Decoder Parsing with Maximum Parse Limit Step Function

NetWitness Platform allows parsers to constantly step through a session as tokens are found on a protocol basis to optimize generating meta in appropriately valuable sessions. The Step Scan enables the scan engine to continue scanning from the position of the last token found for the specified number of bytes. This process repeats each time a token is found and continues until the scan reaches the end of the stream or there are no more tokens. Administrators can optimize specific parsing traffic further into a session to get better visibility for protocols more prone to extensive sessions with potential threats.

Introduction of Meta Keys to Track Bytes Scanned per Session

NetWitness Platform has introduced two new meta keys to track the number of bytes scanned per session. These meta keys are `scanned.client` and `scanned.server`, which keeps track of the scanned bytes for the client and server streams. Administrators can review the progress of a session scan and compare it to the set parse limit and session size. This setting is disabled by default, but it can be turned on by ensuring that the parser **ScannerAnalytics** is enabled. These meta are indexed as `UInt64` types with level `IndexKeys`, so all regular queries relating to integers are applicable.

Log Integrations

NetWitness Platform supports the integration of the following event sources to collect and parse logs. Unless specified, these services are supported on NetWitness Platform 12.2.0.0 or later.

- [CrowdStrike Falcon](#)
- [Cisco FMC](#)
- [Nozomi Networks](#)

For more information on integrating the parser services, see [NetWitness Platform Integrations Guide](#).

Security

IMPORTANT: It is crucial to adhere to security best practices by avoiding the deployment of an Admin server node on a public IP address. This precaution is essential to mitigate the risk of potential directory traversal attacks, particularly through vulnerable endpoints such as `/nwrpmrepo` and `/service-mappings.json` files. These files contain sensitive information including private IPs, RPMs, and other executables, which must remain strictly restricted from exposure to the internet. Implementing this safeguard helps prevent unauthorized access to internal NetWitness environments.

For more information on Security Fixes, see <https://community.netwitness.com/t5/netwitness-platform-advisories/ct-p/netwitness-advisories#security>.

Upgrade Paths

The following upgrade paths are supported for NetWitness 12.4.1.0

- NetWitness 12.4.0.0 to 12.4.1.0
- NetWitness 12.3.1.0 to 12.4.1.0

- NetWitness 12.3.0.0 to 12.4.1.0
- NetWitness 12.2.0.1 to 12.4.1.0
- NetWitness 12.2.0.0 to 12.4.1.0

For more information on upgrading to 12.4.1.0, see [Upgrade Guide for NetWitness 12.4.1.0](#)

IMPORTANT: If you want to upgrade from 11.7.x or 11.7.x.x versions to 12.4.1.0 version, you must first upgrade to 12.2.0.0 or 12.3.0.0 version before upgrading to 12.4.1.

IMPORTANT: The Warehouse connector uses a lockbox to store credentials securely for data integration sources and destinations. However, users upgrading from earlier versions to the 12.4.1 version cannot start the configured streams without migrating their existing credentials in the new lockbox. As a result, users must manually create a new lockbox key and then refresh the password for their sources and destinations configured in Warehouse Connector, wherever applicable. For detailed instructions on creating the new lockbox key, refer to the **Warehouse Connector** section under the **Post Upgrade Tasks** in the [Upgrade Guide for NetWitness 12.4.1.0](#).

Product Version Life Cycle for NetWitness Platform

See for [Product Version Life Cycle for NetWitness Platform](#) a list of versions that reach End of Primary Support (EOPS).

What's New in Previous Releases

The section provides new features and enhancements for all supported previous releases.

For more information, see <https://community.netwitness.com/t5/netwitness-platform-online/what-s-new-in-previous-releases-12-x/ta-p/695650>.

Fixed Issues in 12.4.1.0 Release

This section lists issues fixed in 12.4.1.0 version.

For additional information on fixed issues, see the Fixed Version column in the [NetWitness® Platform Known Issues list \(https://community.netwitness.com/t5/netwitness-platform-known-issues/netwitness-platform-known-issues/ta-p/571872\)](https://community.netwitness.com/t5/netwitness-platform-known-issues/netwitness-platform-known-issues/ta-p/571872) on NetWitness Community Portal.

UEBA Fixes

Tracking Number	Description
ASOC-145668	Red banner errors are displayed on the Users page after upgrading the UEBA server to version 12.4 from lower versions. This issue was caused by a connection failure between presidio-ui and presidio-output, which prevented the data from being displayed on the Users page.

Platform Fixes

Tracking Number	Description
ASOC-149880	The network interface fails to start after rebooting the 12.4.0.0 host due to the <code>NM_CONTROLLED</code> parameter set to <code>no</code> on the host.
ASOC-150789	Leapp upgrade fails due to Insufficient disk requirements.

Known Issues in 12.4.1.0 Release

Issues that remain unresolved in this release are documented in the NetWitness® Platform Known Issues list on the NetWitness community portal: <https://community.netwitness.com/t5/netwitness-platform-known-issues/netwitness-platform-known-issues/ta-p/571872>

Build Numbers for 12.4.1.0 Components

The following table lists the build numbers for various components of NetWitness 12.4.1.0

Component	Version Number
NetWitness Admin Server	rsa-nw-admin-server-12.4.1.0-240329015725.5.6589edfa.el8.alma.noarch.rpm
NetWitness Advanced Analytics Content	rsa-nw-advanced-analytics-content-12.4.1.0-240320123655.5.9bc2575.el8.alma.noarch.rpm
NetWitness Advanced Analytics Server	rsa-nw-advanced-analytics-server-12.4.1.0-240320123619.5.9bc2575.el8.alma.noarch.rpm
NetWitness Appliance	rsa-nw-appliance-12.4.1.0-12890.5.2880c9889.el8.x86_64.rpm
NetWitness Archiver	rsa-nw-archiver-12.4.1.0-12890.5.2880c9889.el8.x86_64.rpm
NetWitness Audit Plugin	rsa-audit-plugins-12.4.1.0-4899.5.8db60535a.el8.noarch.rpm
NetWitness Audit RT	rsa-audit-rt-12.4.1.0-4899.5.8db60535a.el8.x86_64.rpm
NetWitness Bootstrap	rsa-nw-bootstrap-12.4.1.0-2405060639.5.651503e.el8.noarch.rpmm
NetWitness Broker	rsa-nw-broker-12.4.1.0-12890.5.2880c9889.el8.x86_64.rpm
NetWitness Carlos RT	rsa-carlos-rt-12.4.1.0-2800.5.972e9644a.el7.x86_64.rpm
NetWitness Cloud	rsa-nw-cloud-12.4.1.0-12890.5.2880c9889.el8.x86_64.rpm
NetWitness Cloud Connector Server	rsa-nw-cloud-connector-server-12.4.1.0-240321102321.5.1b197cc.el8.alma.noarch.rpm
NetWitness Cloud Link Server	rsa-nw-cloud-link-server-12.4.1.0-240327011149.5.6f5182a.el8.alma.noarch.rpm
NetWitness Collectd	rsa-collectd-12.4.1.0-4899.5.8db60535a.el8.x86_64.rpm
NetWitness Collectd SMS	rsa-collectd-sms-12.4.1.0-4899.5.8db60535a.el8.x86_64.rpm
NetWitness Component Descriptor	rsa-nw-component-descriptor-12.4.1.0-2405100435.5.7d95935.el8.noarch.rpm
NetWitness Concentrator	rsa-nw-concentrator-12.4.1.0-12890.5.2880c9889.el8.x86_64.rpm
NetWitness Config Management	rsa-nw-config-management-12.4.1.0-2405070605.5.6508cf0.el8.noarch.rpm
NetWitness Config Server	rsa-nw-config-server-12.4.1.0-240418024620.5.f508235.el8.alma.noarch.rpm
NetWitness Console	rsa-nw-console-12.4.1.0-12890.5.2880c9889.el8.x86_64.rpm

NetWitness Content Server	rsa-nw-content-server-12.4.1.0-240327021247.5.43b3cd86.el8.alma.noarch.rpm
NetWitness ContextHub Server	rsa-nw-contexthub-server-12.4.1.0-240423054927.5.69c25f6cc.el8.alma.noarch.rpm
NetWitness Correlation Server (ESA)	rsa-nw-correlation-server-12.4.1.0-240502102353.5.035b8fa1.el8.alma.noarch.rpm
NetWitness Dashboard Content	rsa-nw-dashboard-content-20231220155210-5.noarch.rpm
NetWitness Decoder	rsa-nw-decoder-12.4.1.0-12890.5.2880c9889.el8.x86_64.rpm
NetWitness Decoder Analytics Content	rsa-nw-decoder-analytics-content-20231220155210-5.noarch.rpm
NetWitness Decoder Content	rsa-nw-decodercontent-12.4.1.0-12890.5.2880c9889.el8.x86_64.rpm
NetWitness Deployment Upgrade	rsa-nw-deployment-upgrade-12.4.1.0-2404290715.5.45ccde7.el8.noarch.rpm
NetWitness Endpoint Agents	rsa-nw-endpoint-agents-12.4.1.0-2405071950.5.5568086.el8.x86_64.rpm
NetWitness Endpoint Broker Server	rsa-nw-endpoint-broker-server-12.4.1.0-240430100954.5.3c8cf70.el8.alma.noarch.rpm
NetWitness Endpoint Decoder Analytics Content	rsa-nw-endpointdecoder-analytics-content-20231220155210-5.noarch.rpm
NetWitness Endpoint Server	rsa-nw-endpoint-server-12.4.1.0-240425083753.5.1526a9d95.el8.alma.noarch.rpm
NetWitness Investigate Server	rsa-nw-investigate-server-12.4.1.0-240402113854.5.462c98ce.el8.alma.noarch.rpm
NetWitness Legacy Web Server	rsa-nw-legacy-web-server-12.4.1.0-240506233638.5.dda863d.el8.alma.noarch.rpm
NetWitness Log Collector	rsa-nw-logcollector-12.4.1.0-15128.5.ba30a1fa5.el8.x86_64.rpm
NetWitness Log Collector Content	rsa-nw-logcollectorcontent-20240105141144-5.x86_64.rpm
NetWitness Log Collector Perl	rsa-nw-logcollector-perl-12.4.1.0-15128.5.ba30a1fa5.el8.x86_64.rpm
NetWitness Log Collector Tools	rsa-nw-logcollector-tools-12.4.1.0-15128.5.ba30a1fa5.el8.x86_64.rpm
NetWitness Log Decoder	rsa-nw-logdecoder-12.4.1.0-12890.5.2880c9889.el8.x86_64.rpm
NetWitness Log Decoder Analytics Content	rsa-nw-logdecoder-analytics-content-20231220155210-5.noarch.rpm

NetWitness Log Decoder Base Content	rsa-nw-logdecoder-base-content-20240124060008-5.x86_64.rpm
NetWitness Log Player	rsa-nw-logplayer-12.4.1.0-12890.5.2880c9889.el8.x86_64.rpm
NetWitness Malware Analytics Server	rsa-nw-malware-analytics-server-12.4.1.0-240425015315.5.97a7f1d.el8.alma.linux.x86_64.rpm
NetWitness Metrics Server	rsa-nw-metrics-server-12.4.1.0-240430072021.5.06b8788.el8.alma.noarch.rpm
NetWitness Node Infra Server	rsa-nw-node-infra-server-12.4.1.0-240416033239.5.d1f77f9.el8.alma.noarch.rpm
NetWitness Orchestration Cli	rsa-nw-orchestration-cli-12.4.1.0-2404160948.5.fb88877.el8.noarch.rpm
NetWitness Orchestration Server	rsa-nw-orchestration-server-12.4.1.0-240416042921.5.3357009b.el8.alma.noarch.rpm
NetWitness Presidio Airflow	rsa-nw-presidio-airflow-12.4.1.0-2404291357.5.5f2fc38.el8.noarch.rpm
NetWitness Presidio Config Server	rsa-nw-presidio-configserver-12.4.1.0-2404291357.5.5f2fc38.el8.noarch.rpm
NetWitness Presidio Core	rsa-nw-presidio-core-12.4.1.0-2404291357.5.5f2fc38.el8.noarch.rpm
NetWitness Presidio Elastic Search Init	rsa-nw-presidio-elasticsearch-init-12.4.1.0-2404291357.5.5f2fc38.el8.noarch.rpm
NetWitness Presidio Ext NetWitness	rsa-nw-presidio-ext-netwitness-12.4.1.0-2403280841.5.1a16d21.el8.noarch.rpm
NetWitness Presidio Manager	rsa-nw-presidio-manager-12.4.1.0-2404291357.5.5f2fc38.el8.noarch.rpm
NetWitness Presidio Output	rsa-nw-presidio-output-12.4.1.0-2404291357.5.5f2fc38.el8.noarch.rpm
NetWitness Presidio UI	rsa-nw-presidio-ui-12.4.1.0-2404291410.5.6822841.el8.noarch.rpm
NetWitness Recovery Tools	rsa-nw-recovery-tool-12.4.1.0-2404300639.5.f96430b.el8.noarch.rpm
NetWitness Relay Server	rsa-nw-relay-server-12.4.1.0-240425092204.5.9223dc0.el8.alma.noarch.rpm
NetWitness Reporting Engine Server	rsa-nw-re-server-12.4.1.0-6003.5.dc9229fb1.el8.x86_64.rpm
NetWitness Respond Server	rsa-nw-respond-server-12.4.1.0-240418064553.5.99d7d95b6.el8.alma.noarch.rpm

NetWitness Response Actions Server	rsa-nw-response-actions-server-12.4.1.0-240320083034.5.4e8a585.el8.alma.noarch.rpm
NetWitness Root CA Update	rsa-nw-root-ca-update-12.4.1.0-2404160950.5.edacf02.el8.noarch.rpm
NetWitness SA Tools	rsa-sa-tools-12.4.1.0-2405061027.5.1d9fb00.el8.noarch.rpm
NetWitness Security Cli	rsa-nw-security-cli-12.4.1.0-2404160952.5.ede5985.el8.noarch.rpm
NetWitness Security Server	rsa-nw-security-server-12.4.1.0-240402022017.5.183dc638.el8.alma.noarch.rpm
NetWitness Shell	rsa-nw-shell-12.4.1.0-240320030718.5.0e5bbf50.el8.alma.noarch.rpm
NetWitness SOS Report Plugins	rsa-nw-sosreport-plugins-12.4.1.0-2405031625.5.ad4e8f7.el8.noarch.rpm
NetWitness SMS Runtime RT	rsa-sms-runtime-rt-12.4.1.0-4899.5.8db60535a.el8.x86_64.rpm
NetWitness SMS Server	rsa-sms-server-12.4.1.0-4899.5.8db60535a.el8.x86_64.rpm
NetWitness Source Server	rsa-nw-source-server-12.4.1.0-240509053108.5.48f662e6a.el8.alma.noarch.rpm
NetWitness Source Server Content	rsa-nw-sourceserver-content-20240105141144-5.x86_64.rpm
NetWitness User Interface	rsa-nw-ui-12.4.1.0-240508020805.5.7dd3c94c50.el8.alma.noarch.rpm
NetWitness Workbench	rsa-nw-workbench-12.4.1.0-12890.5.2880c9889.el8.x86_64.rpm

Getting Help with NetWitness Platform

Product Documentation

The following documentation is provided with this release.

Documentation	Location URL
NetWitness Platform Master Table of Contents	https://community.netwitness.com/t5/netwitness-platform-online/tkb-p/netwitness-online-documentation
NetWitness Platform 12.4.0.0 Product Documentation	https://community.netwitness.com/t5/netwitness-platform-online/tkb-p/netwitness-online-documentation
NetWitness Platform 12.4.0.0 Upgrade Guide	https://community.netwitness.com/t5/rsa-netwitness-platform-staged/upgrade-guide-for-12-4/ta-p/709308
NetWitness Analytics on Cloud	To learn more about new features and enhancements in NetWitness Analytics on Cloud releases, check the following What's New section: For UEBA Cloud, see https://docs.netwitness.com/netwitnessueba/release_information/whats_new/ . For Insight, see https://docs.netwitness.com/netwitnessinsight/release-information/insight_whatsnew/ .

Self-Help Resources

There are several options that provide you with help as you need it for installing and using NetWitness:

- See the documentation for all aspects of NetWitness here: <https://community.netwitness.com/t5/netwitness-platform/ct-p/netwitness-documentation>
- Use the **Search** and **Create a Post** fields in NetWitness Community portal to find specific information here: <https://community.netwitness.com/t5/netwitness-discussions/bd-p/netwitness-discussions>
- See the NetWitness Knowledge Base: <https://community.netwitness.com/t5/netwitness-knowledge-base/tkb-p/netwitness-knowledge-base>
- See Troubleshooting section in the guides.
- See also [NetWitness® Platform Blog Posts](#).
- If you need further assistance, contact NetWitness Support.

Contact NetWitness Support

If you contact NetWitness Support, you should be at your computer. Be prepared to provide the following information:

- The version number of the NetWitness Platform product or application you are using.
- The type of hardware you are using.

Use the following contact information if you have any questions or need assistance.

NetWitness Community Portal	https://community.netwitness.com In the main menu, click Support > Case Portal > View My Cases .
International Contacts (How to Contact NetWitness Support)	https://community.netwitness.com/t5/support/ct-p/support
Community	https://community.netwitness.com/t5/netwitness-discussions/bd-p/netwitness-discussions
NW Update	https://update.netwitness.com/
LiveUI	https://live.netwitness.com

NetWitness Educational Services

Sign up for access to NetWitness courses and additional resources on the NetWitness Educational Services and Training.

NetWitness Education Portal	https://netwitness.sabacloud.com/Saba/Web_spf/NA10P2PRD088/guestapp/home;spf-url=guest%2Fguestlearningcatalog
NetWitness Educational Services Course Catalog	https://community.netwitness.com/t5/netwitness-education-courses/tkb-p/netwitness-training
NetWitness Educational Services Training Schedule	https://community.netwitness.com/t5/netwitness-education-blog/netwitness-instructor-led-training-schedule/ba-p/655826
NetWitness Educational Services Support Contact	education.support@netwitness.com

Feedback on Product Documentation

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