



Release Notes

for RSA NetWitness Platform 11.3.2.1



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What's New

The RSA NetWitness Platform 11.3.2.1 patch release provides fixes to 11.3.2.0. This document describes the enhancements and fixes included in this release.

Reporting Engine

Output Action for Blank Reports: NetWitness Platform provides the analyst with the ability to exclude blank reports while processing the output actions. You can configure this setting in the Reporting Engine service configuration view using Enable Output Actions for Reports with No Results option. For more details refer to the *Reporting Engine Configuration guide*.

Fixed Issues

This section lists issues fixed since the last major release.

Upgrade Fixes

Tracking Number	Description
SACE-12431/ ASOC-87160	Administrators are not able to upgrade the Windows Log Collector (WLC) when the regional locale is other than EN-US.

NetWitness Endpoint Fixes

Tracking Number	Description
SACE-12463	Endpoint Policy scan is running on an hourly basis when the policy scan is configured for weekly.
SACE-12239	When installing Microsoft Windows update, a blue screen is observed on the Windows agent.
ASOC-86774	Windows Endpoint agent cannot detect kernel hooks and suspicious threads as the kernel version and OS build number is different in Windows 10 Version 1909.
ASOC-87022	Endpoint Agent Driver is not loading and sending tracking data for the latest Mojave version of Mac.

Core Services (Broker, Concentrator, Decoder, Archiver) Fixes

Tracking Number	Description
SACE-12387	Unable to extract files from an SMB2 session due to the recent changes in the SMB2 protocol.
SACE-12827	Not able to extract file in the NetWitness Platform user interface, if the file is an attachment of a mail.

SACE-12573/ SACE-12289/ ASOC-87185/ ASOC-85432	The Archiver and Concentrator services are not able to start data aggregation from the Log Decoder when the Log Decoder crashes.
SACE-12747/ ASOC-87469	SoSReport fails to retrieve service logs when the byte encoding schemes are not set correctly.
ASOC-87661	Not able to extract files from the Log Decoder as it is trying to extract the directory instead of a file.

Investigation Fixes

Tracking Number	Description
SACE-11706	Event export fails when investigating for a custom time frame and profile with no prequery.
SACE-11659	When investigating an offline Archiver collection, it does not display meta with events but displays only the events count.
SACE-12803	Unable to export logs in the Investigate view, when the user language setting is not English or French.
SACE-12420/ ASOC-87099	In Malware Analysis view, the community column does not display community scores.

Administration Fixes

Tracking Number	Description
SACE-12423	Throughput Licenses (TP) are failing when applied on malware appliances.
SACE-12503/ ASOC-87411	Custom feeds and Job History are missing for users with backslash in username, when jetty is restarted.
SACE-12632/ ASOC-86918	User with username containing special character (!) in Active Directory (AD) is not able to log in to the NetWitness Platform user interface.

Tracking Number	Description
SACE-10975/ ASOC-87278	User with username containing unicode in the Active Directory (AD) is not able to log in to the NetWitness Platform user interface. For example, Sofia, A!nn'ecē

Context Hub Fixes

Tracking Number	Description
SACE-12482/ ASOC-87375/ ASOC-87163	STIX feeds are not parsed when the sightings count is zero or when the object arrays contain single element.
SACE-12376	Context Hub list conversion for non feed jobs are generating warning logs.

Event Source Analysis (ESA) Fixes

Tracking Number	Description
SACE-12497/ ASOC-86412	When ESA Correlation Server is connected to multiple Concentrators and the Correlation Server loses connectivity with the Concentrator, data aggregation stops from Concentrators.

Malware Fixes

Tracking Number	Description
SACE-10302/ ASOC-68719	AV tab in Admin > Services > Malware > Config, does not display AV Vendor results.

Build Numbers

The following table lists the build numbers for various components of NetWitness Platform 11.3.2.1.

Component	Version Number
NetWitness Platform Decoder	11.3.2.1-9928.5
NetWitness Platform Concentrator	11.3.2.1-9928.5
NetWitness Platform Broker	11.3.2.1-9928.5
NetWitness Platform Log Decoder	11.3.2.1-9928.5
NetWitness Platform Archiver	11.3.2.1-9928.5
NetWitness Platform Appliance	11.3.2.1-9928.5
NetWitness Platform Correlation Server	11.3.2.1-200117092440.5
NetWitness Platform Admin-server	11.3.2.1-200106145032.5
NetWitness Platform Console	11.3.2.1-9928.5
NetWitness Platform Context Hub Server	11.3.2.1-200120072052.5
NetWitness Platform Endpoint Agents	11.3.2.1-2001091635.5
NetWitness Platform Deployment Upgrade	11.3.2.1-1912192002.5
NetWitness Platform Config Server	11.3.2.1-200114085126.5
NetWitness Platform License Server	11.3.2.1-200110061700.5
NetWitness Platform Log Player	11.3.2.1-9928.5
NetWitness Platform Log Collector	11.3.2.1-14775.5

NetWitness Platform Legacy Web Server	11.3.2.1-200114190359.5
NetWitness Platform Malware Analytics Server	11.3.2.1-200109074345.5
NetWitness Platform Presidio-Airflow	11.3.2.1-1908141029.5
NetWitness Platform Presidio-Config Server	11.3.2.1-1908141029.5
NetWitness Platform Reporting Engine Server	11.3.2.1-5814.5
NetWitness Platform Respond Server	11.3.2.1-200121114618.5
NetWitness Platform sdk	11.3.2.1-9928.5
NetWitness Platform SoSReport-plugins	11.3.2.1-2001071655.5
NetWitness Platform Workbench	11.3.2.1-9928.5
NetWitness Platform SMS Server	11.3.2.1-4520.5

Upgrade Instructions

You need to read the information and follow these procedures for upgrading NetWitness Platform version 11.3.2.1.

The following upgrade paths are supported for NetWitness Platform 11.3.2.1:

- NetWitness Platform 11.2.x.x to 11.3.2.1
 - NetWitness Platform 11.3.x.x to 11.3.2.1
 - NetWitness Platform 11.3.2.0 to 11.3.2.1
- To upgrade from NetWitness Platform 11.2.x.x or 11.3.x.x (except 11.3.2.0) to 11.3.2.1, you must download files for the 11.3.2.0 service pack release and the 11.3.2.1 patch release.

Note: For the upgrade paths supported for 11.3.2.0, see the *Upgrade Guide for RSA NetWitness Platform 11.3.2.0*.

- To upgrade from NetWitness Platform 11.3.2.0 to 11.3.2.1, you only need to download files for the 11.3.2.1 patch release.

You can upgrade to 11.3.2.1 patch using one of the following options:

- If the NetWitness Server has internet connectivity to Live Services, the NetWitness Platform User Interface can be used to apply the patch.
- If the NetWitness Server does not have internet connectivity to Live Services, the Command Line Interface (CLI) or the NetWitness Platform User Interface can be used to apply the patch.

Pre-Upgrade Tasks

If you are upgrading from NetWitness Platform 11.2.x.x or 11.3.x.x (except 11.3.2) to 11.3.2.1, perform all the pre-upgrade tasks mentioned in *Upgrade Guide for RSA NetWitness Platform 11.3.2.0*.

Upgrade Tasks

Task 1: Download the 11.3.2.1 Patch

Download the files as mentioned below, from RSA Link (<https://community.rsa.com/>) > RSA NetWitness Platform > Downloads > RSA NetWitness Platform > Version 11.3 > RSA NetWitness Platform 11.3.2.1 patch Downloads to a local directory:

netwitness-11.3.2.1.zip

Upgrading from	Download and Stage file
11.2.x.x	netwitness-11.3.2.0.zip and netwitness-11.3.2.1.zip
11.3.0.0 11.3.0.1 11.3.0.2 11.3.1.0 11.3.1.1	netwitness-11.3.2.0.zip and netwitness-11.3.2.1.zip
11.3.2.0	netwitness-11.3.2.1.zip

Task 2: Upgrade External Repository

Note: Perform the below steps only if you are using an external repository for 11.3.2.1.

To upgrade the external repository which is an externally managed server, do the following:

1. Upgrade the external repository with the latest upgrade content for the RSA netwitness-11.3.2.1.zip.

The following is the structure after upgrading the external repository:

```

-11.3.0.2
---OS
----repdata
---RSA
----repdata
-11.3.1.1
---OS
----repdata
---RSA
----repdata
-11.3.2.0
---OS
----repdata
---RSA
----repdata
-11.3.2.1
---OS
----repdata
---RSA
----repdata

```

Task 3: Disable Decoder Services

Before upgrading to 11.3.2.1, you must disable Capture AutoStart on Network Decoder and Network Hybrid Services.

To disable the Capture Autostart field:

1. Go to **ADMIN > Services**.

The Administration Services view is displayed.

2. Select a Network Decoder or Network Hybrid service and select  > **View > Config**.

The services config view for the selected Network Decoder or Network Hybrid is displayed.

3. In the **Decoder Configuration** panel, deselect the **Capture Autostart** field and click **Apply**.

Task 4: Upgrade the Patch

You can choose one of the following upgrade methods based on your internet connectivity.

Online Method (Connectivity to Live Services): Upgrade Using NetWitness User Interface

You can use this method if the NetWitness Server is connected to Live Services and can obtain the package.

Note: If the NetWitness Server does not have access to Live Services, use [Offline Method \(No connectivity to Live Services\): Upgrade using the Command Line Interface](#) . or use [Offline Method \(No connectivity to Live Services\): Upgrade using the NetWitness User Interface](#)

Prerequisites

Make sure that:

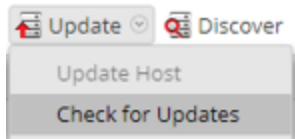
1. The “Automatically download information about new upgrades every day” option is checked and is applied in **ADMIN > System > Upgrades** .
2. Go to **ADMIN > Hosts > Update > Check for Updates** to check for upgrades. The Host page displays the **Update Available** status.
3. 11.3.2.1 is available under “Update Version” column.


Note: If you have custom certs, move any custom certs from `/etc/pki/nw/trust/import/` directory to `/root/cert`. Follow these steps to move the certs:

- 1.) `mkdir /root/cert.`
- 2.) `mv /etc/pki/nw/trust/import/* /root/cert.`

Procedure

1. Go to **ADMIN > Hosts**.
2. Select the NetWitness Server (nw-server) host.
3. Check for the latest updates.



4. **Update Available** is displayed in the **Status** column if you have a version upgrade in your Local Update Repository for the selected host.
5. Select **11.3.2.1** from the **Update Version** column.
 - If you want to view a dialog with the major features in the upgrade and information on the upgrades, click the information icon () to the right of the update version number.
 - If you cannot find the version you want, select **Update > Check for Updates** to check the repository for any available upgrades. If an upgrade is available, the message "New updates are available" is displayed and the **Status** column upgrades automatically to show **Update Available**. By default, only supported upgrades for the selected host are displayed.
6. Click **Update > Update Host** from the toolbar.
7. Click **Begin Update**.
8. Click the **Reboot Host**.
9. Repeat steps 6 to 8 for other hosts.

Note: You can select multiple hosts to upgrade at the same time only after upgrading and rebooting the NetWitness Admin server. All ESA, Endpoint, and Malware Analysis hosts should be upgraded to the same version as that of NW Admin Server or NetWitness Admin Server.

Note: Not all components have been changed for 11.3.2.1, so after you perform the upgrade steps, it is normal to see some components with different version numbers. For a list of the components that were upgraded for this release, see [Build Numbers](#).

Offline Method (No connectivity to Live Services): Upgrade using the Command Line Interface

You can use this method if the NetWitness Server is not connected to Live Services.

Note: Alternatively, you can upgrade using the [Offline Method \(No connectivity to Live Services\): Upgrade using the NetWitness User Interface](#).

Prerequisites

Make sure that you have downloaded the following files, which contain all the NetWitness Platform 11.3.2.1 upgrade files, from RSA Link (<https://community.rsa.com/>) > RSA NetWitness Platform > Downloads > RSA NetWitness Platform > Version 11.3 > RSA NetWitness Platform 11.3.2.1 patch Downloads to a local directory:

- If you are upgrading from 11.2.x.x or 11.3.x.x (except 11.3.2.0), download `netwitness-11.3.2.0.zip` and `netwitness-11.3.2.1.zip`.
- If you are upgrading from 11.3.2.0, download `netwitness-11.3.2.1.zip`.
- If you are using external repository, you can upgrade the external repository with the latest upgrade content. For more information see, [Task 2: Upgrade External Repository](#).

Procedure

You need to perform the upgrade steps for NW Admin servers and for component servers.

Note: If you copy paste the commands from PDF to Linux SSH terminal, the characters do not work. It is recommended to type the commands.

- **If you are upgrading from 11.2.x.x or 11.3.x.x (except 11.3.2.0) to 11.3.2.1**, you must stage 11.3.2.0 and 11.3.2.1. Log into the `/root` directory of the Admin NetWitness Server and create the following directories:

```
/tmp/upgrade/11.3.2.0
```

```
/tmp/upgrade/11.3.2.1
```

and then copy the package zip files to the `/root` directory of the Admin server and extract the package files from `/root` to the appropriate directories:

```
unzip netwitness-11.3.2.0.zip -d /tmp/upgrade/11.3.2.0
```

```
unzip netwitness-11.3.2.1.zip -d /tmp/upgrade/11.3.2.1
```

- **If you are upgrading from 11.3.2.0 to 11.3.2.1**, you only need to stage 11.3.2.1. Log into the `/root` directory of the Admin NetWitness Server and create the following directory:

```
/tmp/upgrade/11.3.2.1
```

and then copy the package zip files to the `/root` directory of the Admin server and extract the package files from `/root` to the `/tmp/upgrade/11.3.2.1` directory:

```
unzip netwitness-11.3.2.1.zip -d /tmp/upgrade/11.3.2.1
```

Note: If you copied the .zip file to the created staging directory to unzip, make sure that you delete the initial .zip file that you copied to the staging location after you extract it.

1. Initialize the upgrade, using the following command:

```
upgrade-cli-client --init --version 11.3.2.1 --stage-dir /tmp/upgrade
```
2. Upgrade Netwitness Server, using the following command:

```
upgrade-cli-client --upgrade --host-addr <IP of Netwitness Server> --version 11.3.2.1
```
3. When the component host upgrade is successful, reboot the host from NetWitness UI.
4. Repeat steps 2 and 3 for each component host, changing the IP address to the component host which is being upgraded.

Note: You can check versions of all the hosts, using the command `upgrade-cli-client --list` on the NetWitness Server. If you want to view the help content of `upgrade-cli-client`, use the command `upgrade-cli-client --help`.

Note: If the following error displays during the upgrade process:

```
2017-11-02 20:13:26.580 ERROR 7994 - [ 127.0.0.1:5671]
o.s.a.r.c.CachingConnectionFactory : Channel shutdown: connection error;
protocol method: #method<connection.close>(reply-code=320, reply-
text=CONNECTION_FORCED - broker forced connection closure with reason
'shutdown', class-id=0, method-id=0)
```

the patch will install correctly. No action is required. If you encounter additional errors when upgrading a host to a new version, contact Customer Support ([Contacting Customer Care](#)).

External Repo Instructions for CLI Upgrade

Note: The external repo should have separate directories for 11.3.2.0 and 11.3.2.1, as described in [Offline Method \(No connectivity to Live Services\): Upgrade using the Command Line Interface](#).

1. Stage 11.3.2.1 by creating a directory on the NetWitness Server at `/tmp/upgrade/11.3.2.1` and extract the zip package.

```
unzip netwitness-11.3.2.1.zip -d /tmp/upgrade/11.3.2.1
```

Note: If you copied the .zip file to the created staging directory to unzip, make sure that you delete the initial .zip file that you copied to the staging location after you extract it.

2. Initialize the upgrade, using the following command:

```
upgrade-cli-client --init --version 11.3.2.1 --stage-dir /tmp/upgrade
```

3. Upgrade Netwitness Server, using the following command:

```
upgrade-cli-client --upgrade --host-addr <IP of Netwitness Server> --version  
11.3.2.1
```

4. When the component host upgrade is successful, reboot the host from NetWitness UI.
5. Repeat steps 3 and 4 for each component host, changing the IP address to the component host which is being upgraded.

Note: You can check versions of all the hosts, using the command `upgrade-cli-client --list` on NetWitness Server. If you want to view the help content of `upgrade-cli-client`, use the command `upgrade-cli-client --help`.

Note: If the following error displays during the upgrade process:

```
2017-11-02 20:13:26.580 ERROR 7994 - [ 127.0.0.1:5671]  
o.s.a.r.c.CachingConnectionFactory : Channel shutdown: connection error;  
protocol method: #method<connection.close>(reply-code=320, reply-  
text=CONNECTION_FORCED - broker forced connection closure with reason  
'shutdown', class-id=0, method-id=0)  
the patch will install correctly. No action is required. If you encounter additional errors when upgrading a  
host to a new version, contact Customer Support (Contacting Customer Care).
```

Offline Method (No connectivity to Live Services): Upgrade using the NetWitness User Interface

The following rules apply when you apply version upgrades:

- You must upgrade the NW Server host first.
- You can only apply a version that is compatible with the existing host version.

Note: The offline User Interface method is only available if you are upgrading a host from 11.3.1.0 or later to 11.3.2.1. If you are upgrading a host on an earlier version, you must use the [Offline Method \(No connectivity to Live Services\): Upgrade using the Command Line Interface](#) .

Task 1. Populate Staging Folder (`/var/lib/netwitness/common/upgrade-stage/`) with Version Updates

- If you are upgrading from 11.3.1.0 or 11.3.1.1, download the `netwitness-11.3.2.0.zip` and `netwitness-11.3.2.1.zip` upgrade package from RSA Link to a local directory.
- If you are upgrading from 11.3.2.0, download the `netwitness-11.3.2.1.zip` upgrade package from RSA Link to a local directory.

1. SSH to the NW Server host.
2. If you are upgrading from 11.3.1.0 or 11.3.1.1 to 11.3.2.1, copy `netwitness-11.3.2.1.zip` and `netwitness-11.3.2.1.zip` from the local directory to the `/var/lib/netwitness/common/update-stage/ staging`

```
sudo cp /tmp/netwitness-11.3.2.0.zip /var/lib/netwitness/common/update-stage/
sudo cp /tmp/netwitness-11.3.2.1.zip /var/lib/netwitness/common/update-stage/
```
3. If you are upgrading from 11.3.2.0 to 11.3.2.1, copy `netwitness-11.3.2.1.zip` from the local directory to the `/var/lib/netwitness/common/upgrade-stage/ staging` folder. For example:

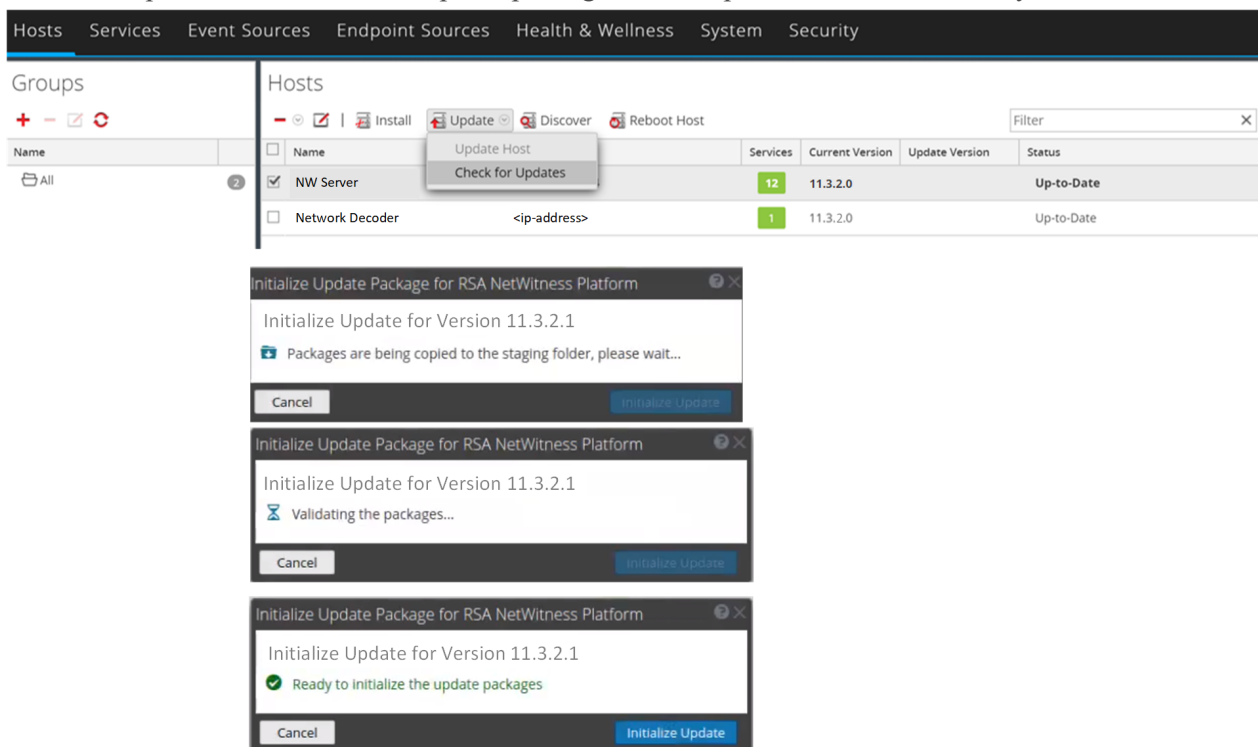
```
sudo cp /tmp/netwitness-11.3.2.1.zip /var/lib/netwitness/common/update-stage/
```

Note: NetWitness Platform unzips the file automatically.

Task 2. Apply Updates from the Staging Area to Each Host

Caution: You must upgrade the NW Server host before upgrading any Non-NW Server host.

1. Log in to NetWitness Platform.
2. Go to **ADMIN > HOSTS**.
3. Check for updates and wait for the update packages to be copied, validated, and ready to be initialized.

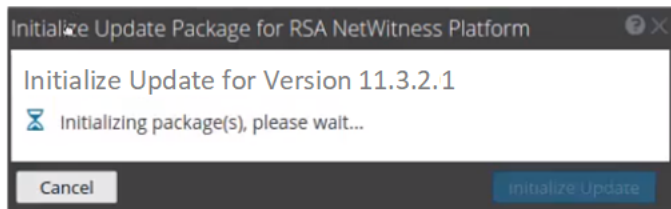


"Ready to initialize packages" is displayed if:

- NetWitness Platform can access the update package.
- The package is complete and has no errors.

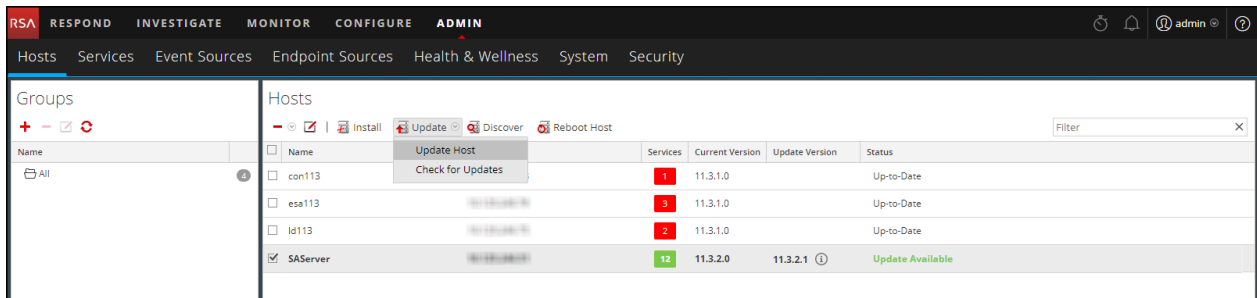
Refer to [Troubleshooting Version Installations and upgrades](#) for instructions on how to troubleshoot errors (for example, "Error deploying version <version-number>" and "Missing the following update package (s)," are displayed in the **Initiate Update Package for RSA NetWitness Platform** dialog.)

4. Click **Initialize Update**.



It takes some time to initialize the packages because the files are large and need to be unzipped. After the initialization is successful, the **Status** column displays **Update Available** and you complete the rest of the steps in this procedure to finish the update of the host.

5. Click **Update > Update Hosts** from the toolbar.



6. Click **Begin Update** from the **Update Available** dialog.
 After the host is upgraded, it prompts you to reboot the host.
7. Click **Reboot** from the toolbar.

Post-Upgrade Tasks

This topic is divided into two sections, based on the version that you are upgrading from:

[Post Upgrade Tasks for Customers Upgrading From 11.3.2.0](#)

[Post Upgrade Tasks for Customers Upgrading From 11.2.x.x or 11.3.x.x \(except 11.3.2.0\)](#)

Post Upgrade Tasks for Customers Upgrading From 11.3.2.0

Task 1 - Upgrade HIVE version

Note: If you already installed customized HIVE RPMs in 11.2.1 or later, you can skip this task

After you upgrade to 11.3.2.1, you need to upgrade the HIVE version that is compatible with Warehouse. To install the latest HIVE version, run the following commands on the NetWitness admin server and restart the Reporting Engine service. Download the latest HIVE RPMs from <https://community.rsa.com/docs/DOC-109473>.

1. To install HIVE 0.12 version, run the following command:

```
rpm -ivh rsa-nw-hive-jdbc-0.12.0-1.x86_64.rpm
```

2. To Install HIVE 1.0 version, run the following command:

```
rpm -ivh rsa-nw-hive-jdbc-1.0.0-1.x86_64
```

Task 2 (Optional) - Move the custom certs

Move the custom certs from external directory to `/etc/pki/nw/trust/import` directory.

Task 3: Enable Decoder Services

After you upgrade to 11.3.2.1, you must enable Capture AutoStart on Network Decoder and Network Hybrid Services.

To enable the Capture Autostart field:

1. Go to **ADMIN > Services**.

The Administration Services view is displayed.

2. Select a Network Decoder or Network Hybrid service and select  > **View > Config**.

The services Config view for the selected Network Decoder or Network Hybrid is displayed.

3. In the **Decoder Configuration** panel, select the **Capture Autostart** field and click **Apply**.

Post Upgrade Tasks for Customers Upgrading From 11.2.x.x or 11.3.x.x (except 11.3.2.0)

Perform all the post upgrade tasks mentioned in *Upgrade Guide for RSA NetWitness Platform 11.3.2.0*.

Product Documentation

The following documentation is provided with this release.

Document	Location
NetWitness Platform 11.3 Product Documentation	https://community.rsa.com/community/products/netwitness/113
NetWitness Platform Hardware Setup Guides	https://community.rsa.com/community/products/netwitness/hardware-setup-guides
RSA Content for NetWitness Platform	https://community.rsa.com/community/products/netwitness/rsa-content

Known Issues

Issues that remain unresolved in this release are documented here:

<https://community.rsa.com/community/products/netwitness/documentation/known-issues>. Wherever a workaround is available, it is noted or referenced in detail.

Feedback on Product Documentation

You can send an email to sahelpfeedback@emc.com to provide feedback on RSA NetWitness Platform documentation.

Support Information

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

- See documentation for all aspects of NetWitness Platform here:
<https://community.rsa.com/community/products/netwitness/documentation>
- Use the **Search** and **Ask it** fields in RSA Link to find specific information here:
<https://community.rsa.com/welcome>
- If you need further information, contact Customer Care.

If you contact Customer Care, you should be at your computer. Be prepared to give the following information:

- The version number of the RSA 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.

RSA Link	https://community.rsa.com In the main menu, click My Cases .
Phone	1-800-995-5095, option 3
International Contacts	http://www.emc.com/support/rsa/contact/phone-numbers.htm
Community	https://community.rsa.com/community/support
Basic Support	Technical Support for your technical issues is available from 8 AM to 5 PM your local time, Monday through Friday.
Enhanced Support	Technical Support is available by phone 24 x 7 x 365 for Severity 1 and Severity 2 issues only.

Contacting Customer Care

When you contact Customer Care, you should be at your computer. Be prepared to give the following information:

- The version number of the RSA 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.

RSA Link	https://community.rsa.com/
Phone	1-800-995-5095, option 3
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