

Physical Host Installation Guide

for RSA NetWitness® Platform 11.3.0.2



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Introduction

The instructions in this guide apply to physical hosts exclusively. See the RSA *Virtual Host Installation Guide for RSA NetWitness Platform 11.3.0.2* for instructions on how to set up virtual hosts in 11.3.0.2.

Note: Go to the Master Table of Contents to find all NetWitness Platform Logs & Network 11.x documents.

Supported Hardware

Series 4, Series 4S, Series 5, and Series 6.

Refer to the RSA *NetWitness Platform* Hardware Setup Guides for detailed information on each series type (https://community.rsa.com/community/products/netwitness/hardware-setup-guides).

Endpoint Log Hybrid Host Hardware Specifications

Series 5 (Dell R730) hardware or Series 6 (Dell R740 hardware. See "(Optional) Task 2 - Install Endpoint Log Hybrid" in <u>Post Installation Tasks</u> for instructions on how to install the Endpoint Log Hybrid.

Note: If you have RSA NetWitness® Endpoint 4.x hardware, you can re-purpose the same for NetWitness Endpoint Log Hybrid 11.3.0.2.

RSA NetWitness UEBA Host Hardware Specifications

S5 (Dell R630 appliance) or S6 (Dell R640) hardware. See "(Optional) Task 3 - Install NetWitness UEBA" in <u>Post Installation Tasks</u> for instructions on how to install NetWitness UEBA.

SERIES 5 (DELL R630) SPECIFICATIONS

Specification	Capacity
Model	Dell PowerEdge R630x1
Processor Type	Intel Xeon E5 -2680v3
Processor Speed	2.5 GHz
Cache	30MB
Number of Cores	12
Number of Processors	2
Number of Threads	24
Total Memory	256GB
Internal Disk Controller	Dell PERC H730

Specification	Capacity
External Disk Controller	Dell PERC H830
SAN Connectivity (HBA) - Optional	N/A
Remote Management Card	iDRAC8 Enterprise
Drives	<u>Total - 6 Drives</u> 2 x 1TB, 2.5" HDD 4 x 2TB, 2.5" HDD
Chassis	1U
Weight	18.4 kg (40.5 lbs)
NIC Card*	On Board 2 x 10 Gb Copper 2 x 10 Gb & 2 x 1Gb Copper (Other options are available)
Dimensions	H: 4.28 cm (1.68 in.) x W: 48.23 cm (18.98 in.) x D: 75.51 cm (29.72 in.)
Power	1100W Redundant
BTU/hr	4100 BTU/hr (max)
Amps (Spec)	1100W / 220VAC = 5A
Actual Amp Draw (Post Startup)	2.1 Amps
Events Per Second (EPS)	100K EPS
Throughput	N/A

* NIC Card options are available for swap with on-board daughter card or add on.

External Attached Storage

If you have an external storage device or devices (for example, DACs or PowerVaults) attached to a physical host, refer to the Hardware Setup Guides for information on how to configure this storage on RSA Link (https://community.rsa.com/community/products/netwitness/hardware-setup-guides)."

Physical Host Installation Workflow

The following diagram illustrates the RSA NetWitness® Platform 11.3.0.2 Physical Host Installation workflow.

RSA NetWitness[®] Suite 11.3.0.2 Physical Host Install Workflow



Contact Customer Support

Refer to the Contact RSA Customer Support page (https://community.rsa.com/docs/DOC-1294) in RSA Link for instructions on how to get help on RSA NetWitness Platform 11.3.0.2.

Installation Preparation - Open Firewall Ports

The "Network Architecture and Ports" topic in the *Deployment Guide for RSA NetWitness Platform* 11.3.0.2 lists all the ports in a deployment.

Caution: Do not proceed with the installation until the ports on your firewall are configured.

Installation Tasks

This topic contains the tasks you must complete to install NetWitness Platform 11.3.0.2 on physical hosts.

Complete the major installation tasks in the following order.

Task 1 - Install 11.3.0.2 on the NetWitness Server (NW Server) Host

Task 2 - Install 11.3.0.2 on All Other Component Hosts

Task 3 - (Optional) - Install Warm Standby NW Server Host

Task 1 - Install 11.3.0.2 on the NetWitness Server (NW Server) Host

Complete the following steps to install the 11.3.0.2 NW Server host.

- 1. Create a base image on the host:
 - a. Attach media (ISO) to the host. See the USB Build Stick Instructions for RSA NetWitness 11.3.0.2 and Later for more information.
 - Hypervisor installations use the ISO image.
 - Physical media use the ISO to create bootable flash drive media the **Etcher**® or another suitable imaging tool etch an Linux file system on the USB drive.Etcher is available at: https://etcher.io.
 - iDRAC installations the virtual media type is:
 - Virtual Floppy for mapped flash drives.
 - Virtual CD for mapped optical media devices or ISO file.
 - b. Log in to the host and reboot it.



 c. Select F11 (boot menu) during reboot to select a boot device and boot to the connected media. After some system checks during booting, the following Welcome to RSA NetWitness
 Platform 11.3 installation menu is displayed. The menu graphics will render differently if you use a physical USB flash media.



d. Select Install RSA Netwitness Platform 11.3 (default selection) and press Enter.

The Installation program runs and stops at the Enter (y/Y) to clear drives prompt that asks you to format the drives.



e. Type Y to continue.

The default action is No, so if you ignore the prompt and it will select No in 30 seconds and will not clear the drives. The **Press enter to reboot** prompt is displayed.

Clearing drive configuration in 15 seconds, <CTRL><ALT> to cancel Ignore or answer no to this prompt after restarting Re-labeling disks and virtual drives, clearing RAID configuration ... 0 logical volume(s) in volume group "netwitness_vg00" now active Adapter 0: Configuration is Cleared. Exit Code: 0x00 Invalid or no RAID configuration found: RAID Level = #HDD = Adapter 0: Created VD 0 Adapter 0: Created VD 0 Adapter 0: Configured the Adapter!! Exit Code: 0x00 Adapter 0: Created VD 1 Adapter 0: Configured the Adapter!! Exit Code: 0x00 Run installation again after restart Press enter to reboot

f. Press Enter to reboot the host.

The Installation program asks you to clear the drives again.

Clear virtual drive configuration on RAID controller: 0 ? HBA: PERC H730P Mini #VD: 2 #PD: 4 For Migrations either ignore or answer No to this prompt Recommended for new hardware or re-purposing **Warning** data on all configured drives will be discarded, this includes all internal, HBA attached SATA/SCSI storage Enter (y/Y) to clear drives, defaults to No in 30 seconds

g. Type **N** because you already cleared the drives.

The Enter Q (Quit) or R (Reinstall) prompt is displayed.

No root level logical volumes found for Migration Assuming this system is new or being reinstalled Migration cannot proceed, system will be reimaged If you had intended to migrate please quit and contact support for assistance.

Enter Q to Quit or R to Reinstall, Re-installing in 120 seconds?

h. Type **R** to install the base image.

The installation program displays the components as they are installed, which varies depending on the appliance, and reboots.

Caution: Do not reboot the attached media (media that contains the ISO file, for example a build stick).

CentOS Linux 7 (Core) Kernel 3.10.0-514.26.1.el7.x86_64 on an x86_64 NWAPPLIANCE9240 login: root Password: [root@NWAPPLIANCE9240~]#

- i. Log in to the host with the root credentials.
- 2. Run the nwsetup-tui command to set up the host.

This initiates the nwsetup-tui (Setup program) and the EULA is displayed.

Note: 1.) When you navigate through the Setup program prompts, use the down and up arrows to move among fields, use the Tab key to move to and from commands (such as **<Yes>**, **<No>**, **<OK>**, and **<Cancel>**. Press **Enter** to register your command response and move to the next prompt.

2.) The Setup program adopts the color scheme of the desktop or console you use to access the host.

3.) If you specify DNS servers during Setup program (nwsetup-tui) execution, they MUST be valid (valid in this context means valid during setup) and accessible for the nwsetup-tui to proceed. Any misconfigured DNS servers cause the Setup to fail. If you need to reach a DNS server after setup that is unreachable during setup, (for example, to relocate a host after setup that would have a different set of DNS Servers), see "(Optional) Task 1 - Re-Configure DNS Servers Post 11.3.0.2" in Post Installation Tasks.

If you do not specify DNS Servers during setup (nwsetup-tui), you must select 1 The Local **Repo (on the NW Server)** in the **NetWitness Platform Update Repository** prompt in step 12 (the DNS servers are not defined so the system cannot access the external repo).

By clicking "Accept", you (the "Customer") hereby agree, on behalf of your company or organization, to be bound by the terms and conditions of the End User License Agreement (the "EULA") located at https://www.rsa.com/content/dam/rsa/PDF/shrinkwrap-license-combined.pdf with RSA Security LLC ("RSA", or appropriate affiliate entity in the relevant jurisdiction). In addition, Customer hereby agrees and acknowledges that, if Customer chooses to host its data with any third party or in a public cloud environment, RSA has no responsibility for the storage or protection of any Customer data or for any associated security breach notifications. The terms herein and in the EULA shall supersede any relevant terms in any other agreement between the Customer and RSA. For customers of the RSA NetWitness® products, all data analyzed in connection herewith shall be at a cost to Customer based on RSA's then current

<Decline>

3. Tab to Accept and press Enter.

The Is this the host you want for your 11.3 NW Server prompt is displayed.

<<mark>A</mark>ccept >



4. Tab to Yes and press Enter.

Choose No if you already installed 11.3.0.2 on the NW Server.

Caution: If you choose the wrong host for the NW Server and complete the Setup, you must restart the Setup Program and complete (steps 2 -14) to correct this error.

The **Install or Upgrade** prompt is displayed (**Recover** does not apply to the installation. It is for 11.3.0.2 Disaster Recovery.).

NetWitness P. Specify if	latform 11.3 Install or Upgrade you are installing NetWitness
for the firm	st time or upgrading from a
previous ve.	rsion:
1 Install	(Fresh Install)
2 Upgrade	(From Previous Vers.)
3 Recover	(Reinstall)
4 Install	(Warm/Standby)
<	OK > < Exit >

5. Press Enter. Install (Fresh Install) is selected by default.

The Host Name prompt is displayed.



Caution: If you include "." in a host name, the host name must also include a valid domain name.

6. Press **Enter** if want to keep this name. If not edit the host name, tab to **OK**, and press **Enter** to change it.

The Master Password prompt is displayed.

The following list of characters are supported for Master Password and Deployment Password:

- Symbols : ! @ # % ^ +
- Numbers : 0-9
- Lowercase Characters : a-z
- Uppercase Characters : A-Z

No ambiguous characters are supported for Master Password and Deployment Password. For example:

```
space { } [ ] ( ) / \ ' " ` ~ ; : .<> -
```

The master password is utilized to set the default password for both the system recovery account and the NetWitness UI "admin" account. The system recovery account password should be safely stored in case account recovery is needed. The NetWitness UI "admin" account password can be updated upon login.			
Enter a Master Password.			
Password ********			
Verify *********			
-			
< OK > <cancel></cancel>			

7. Type in the **Password**, down arrow to **Verify**, retype the password, tab to **OK**, and press **Enter**. The **Deployment Password** prompt is displayed.

The Deproyment I uss wor a prompt is aispia year			
Deployment Password			
The Deployment password is used when deploying NetWitness hosts. It needs to be safely stored and available when deploying additional hosts to your NetWitness Platform.			
Password *******			
Verify ******			
< OK > <cancel></cancel>			

- 8. Type in the **Password**, down arrow to **Verify**, retype the password, tab to **OK**, and press **Enter**. One of the following conditional prompts is displayed.
 - If the Setup program finds a valid IP address for this host, the following prompt is displayed.

IP Address <ip-address> is currently assigned to this host. Do you still want to change network settings?</ip-address>	
< Yes > <mark>< N</mark> o >	

Press Enter if you want to use this IP and avoid changing your network settings. Tab to Yes and press Enter if you want to change the IP configuration on the host.

• If you are using an SSH connection, the following warning is displayed.

Note: If you connect directly from the host console, the following warning will not be displayed.



Press Enter to close warning prompt.

- If the Setup Program finds an IP configuration and you choose to use it, the **Update Repository** prompt is displayed. Go to step 12 to and complete the installation.
- If the Setup Program did not find an IP configuration or if you choose to change the existing IP configuration, the **Network Configuration** prompt is displayed.

Caution: Only select "Use DHCP" as an IP address configuration for the NW Server if DHCP issues static IP addresses.

NetWitness Platform Network Configuration The IP address of the NW Server is used by all other NetWitness Platform components. RSA recommends that you use a Static IP Configuration for the NW Server IP address over DHCP. After the IP address is assigned, record it for future use. You need this address to set up other components.
Select an IP address configuration for the NW Server.
1Static IP Configuration2Use DHCP
< <mark>0K ></mark> < Exit >

9. Tab to **OK** and press **Enter** to use **Static IP**.

If you want to use DHCP, down arrow to 2 Use DHCP and press Enter.

The Network Configuration prompt is displayed.

NetWitness Platform Network Configure Please select the network interface configure:	to	
1 eth0 (up)		
< <mark>O</mark> K > < Exit >		

10. Down arrow to the network interface you want, tab to **OK**, and press **Enter**. If you do not want to continue, tab to **Exit**.

Th	e following Static IP Configuration prompt is displayed
-Ne	etWitness Platform Network Configuration Static IP configuration
	IP Address
	Subnet Mask
	Default Gateway
	Secondary DNS Server
	Local Domain Name
	< OK > < Exit >

11. Type the configuration values, tab to OK, and press Enter. If you do not complete all the required fields, an All fields are required error message is displayed (Secondary DNS Server and Local Domain Name fields are not required). If you use the wrong syntax or character length for any of the fields, an Invalid <field-name> error message is displayed.

Caution: If you select **DNS Server**, make sure that the DNS Server is correct and the host can access it before proceeding with the installation.

The Update Repository prompt is displayed.



- 12. Press Enter to choose the Local Repo on the NW Server. If you want to use an external repo, down arrow to External Repo, tab to OK, and press Enter.
 - If you select **1** The Local Repo (on the NW Server) in the Setup program, make sure that you have the appropriate media attached to the host (media that contains the ISO file, for example a build stick) from which it can install NetWitness Platform 11.3.0.2. If the program cannot find the attached media, you receive the following prompt.



If you select 2 An External Repo (on an externally-managed server), the UI prompts you for a URL. The repositories give you access to RSA updates and CentOS updates. Refer to <u>Appendix</u>
 <u>B. Create an External Repo</u> for instructions on how to create this repo and its external repo URL so you can enter it in the following prompt.



Enter the base URL of the NetWitness Platform external repo and click **OK**. The **Start Install** prompt is displayed.

See "Set Up an External Repository with RSA and OS Updates" under "Hosts and Services Procedures" in the *Hosts and Services Getting Started Guide for RSA NetWitness Platform* 11.3.0.2 for instructions.

The Disable firewall prompt is displayed.



13. Tab to **No** (default), and press **Enter** to use the standard firewall configuration. Tab to **Yes**, and press **Enter** to disable the standard firewall configuration.

If you select **Yes**, confirm your selection(select **Yes** again) or select **No** to use the standard firewall configuration.



The Start Install/Upgrade prompt is displayed.



14. Press Enter to install 11.3.0.2 on the NW Server.

When Installation complete is displayed, you have installed the 11.3.0.2 NW Server on this host.

Note: Ignore the hash code errors similar to the errors shown in the following figure that are displayed when you initiate the nwsetup-tui command. Yum does not use MD5 for any security operations so they do not affect the system security.



Task 2 - Install 11.3.0.2 on Other Component Hosts

For a non-NW Server host this task:

- Creates a base image.
- Sets up the 11.3.0.2 non-NW Server host.

For ESA hosts:

- Install your primary ESA host and install the **ESA Primary** service on it after you finish the Set Up program in the UI on the **ADMIN** > **Hosts** view.
- (Conditional) If you have a secondary ESA host, install it and install the **ESA Secondary** service on it after you finish the Set Up program in the UI on the **ADMIN** > **Hosts** view.

Complete the following steps to install NetWitness Platform 11.3.0.2 on a non-NW Server host.

- 1. Create a base image on the host:
 - a. Attach media (media that contains the ISO file, for example a build stick) to the host. See the USB Build Stick Instructions for RSA NetWitness 11.3.0.2 and Later for more information.
 - Hypervisor installs use the ISO image.
 - Physical media use the ISO to create bootable flash drive media the **Etcher**® or another suitable imaging tool etch an Linux file system on the USB drive. Etcher is available at: https://etcher.io.
 - iDRAC installations the virtual media type is:
 - Virtual Floppy for mapped flash drives.
 - Virtual CD for mapped optical media devices or ISO file.
 - b. Log in to the host and reboot it.

```
login: root
Password:
Last login: Tue Sep 19 13:27:15 on tty1
[root@saserver ~]# reboot
```

 c. Select F11 (boot menu) during reboot to select a boot device and boot to the connected media. After some system checks during booting, the following Welcome to RSA NetWitness
 Platform 11.3 installation menu is displayed. The menu graphics will render differently if you use a physical USB flash media.



d. Select Install RSA Netwitness Platform 11.3 (default selection) and press Enter.

The Installation program runs and stops at the Enter (y/Y) to clear drives prompt that asks you to format the drives.



e. Type Y to continue.

The default action is No, so if you ignore the prompt and it will select No in 30 seconds and will not clear the drives.

Note: (Conditional) If the host is a RSA Hybrid physical host, the Series 5 - 6 Hybrid Image Selection Menu is displayed next.

 RSA Netwitness Series 5 - 6 Hybrid Image Selection Menu

 Please select how you want this appliance to be imaged

 Navigation Keys:

 (Tab> move, <Space> select, <D> de-select, <S> save

 (Q) quit installation and reboot

 () Endpoint Log Hybrid

 () Network Hybrid

 Tab to the Hybrid type you are installing (that is Endpoint Log Hybrid, Log Hybrid, or

Network Hybrid - indicated by the underscore "_"), and press Enter.

f. The Press enter to reboot prompt is displayed.

Clearing drive configuration in 15 seconds, <CTRL><ALT> to cancel Ignore or answer no to this prompt after restarting Re-labeling disks and virtual drives, clearing RAID configuration ... 0 logical volume(s) in volume group "netwitness_vg00" now active Adapter 0: Configuration is Cleared. Exit Code: 0x00 Invalid or no RAID configuration found: RAID Level = #HDD = Adapter 0: Created VD 0 Adapter 0: Created VD 0 Adapter 0: Configured the Adapter!! Exit Code: 0x00 Adapter 0: Created VD 1 Adapter 0: Configured the Adapter!! Exit Code: 0x00 Run installation again after restart Press enter to reboot g. Press **Enter** to reboot the host.

The Installation program asks you to clear the drives again.

Clear virtual drive configuration on RAID controller: 0 ? HBA: PERC H730P Mini #VD: 2 #PD: 4 For Migrations either ignore or answer No to this prompt Recommended for new hardware or re-purposing **Warning** data on all configured drives will be discarded, this includes all internal, HBA attached SATA/SCSI storage Enter (y/Y) to clear drives, defaults to No in 30 seconds

h. Type **N** because you already cleared the drives.

The Enter Q (Quit) or R (Reinstall) prompt is displayed.

```
No root level logical volumes found for Migration
Assuming this system is new or being reinstalled
Migration cannot proceed, system will be reimaged
If you had intended to migrate please quit and
contact support for assistance.
------
Enter Q to Quit or R to Reinstall, Re-installing in 120 seconds?
```

i. Type **R** to install the base image.

The installation program displays the components as they are installed, which varies depending on the appliance, and reboots.

Caution: Do not reboot the attached media (media that contains the ISO file, for example a build stick).

```
CentOS Linux 7 (Core)
Kernel 3.10.0-514.26.1.el7.x86_64 on an x86_64
NWAPPLIANCE9240 login: root
Password:
Iroot@NWAPPLIANCE9240 ~]#
```

- j. Log in to the host with the root credentials.
- 2. Run the nwsetup-tui command to set up the host.. This initiates the nwsetup-tui (Setup program) and the EULA is displayed.

Note: If you specify DNS servers during Setup program (nwsetup-tui) execution, they MUST be valid (valid in this context means valid during setup) and accessible for the nwsetup-tui to proceed. Any misconfigured DNS servers cause the Setup to fail. If you need to reach a DNS server after setup that is unreachable during setup, (for example, to relocate a host after setup that would have a different set of DNS Servers), see "(Optional) Task 1 - Re-Configure DNS Servers Post 11.3.0.2" in Post Installation Tasks.

If you do not specify DNS servers during nwsetup-tui, you must select 1 The Local Repo (on the NW Server) in the NetWitness Platform Update Repository prompt in step 11 (the DNS servers are not defined so the system cannot access the external repo).

By clicking "Accept", you (the "Customer") hereby agree, on behalf of your company or organization, to be bound by the terms and conditions of the End User License Agreement (the "EULA") located at https://www.rsa.com/content/dam/rsa/PDF/shrinkwrap-license-combined.pdf with RSA Security LLC ("RSA", or appropriate affiliate entity in the relevant jurisdiction). In addition, Customer hereby agrees and acknowledges that, if Customer chooses to host its data with any third party or in a public cloud environment, RSA has no responsibility for the storage or protection of any Customer data or for any associated security breach notifications. The terms herein and in the EULA shall supersede any relevant terms in any other agreement between the Customer and RSA. For customers of the RSA NetWitness® products, all data analyzed in connection herewith shall be at a cost to Customer based on RSA's then current



3. Tab to Accept and press Enter.

The Is this the host you want for your 11.3 NW Server prompt is displayed.



Caution: If you choose the wrong host for the NW Server and complete the installation, you must restart the step up program and complete (steps 2 - 14) of Task 1 - Install 11.3.0.2 on the NetWitness Server (NW Server) Host to correct this error.

4. Press Enter (No).

The **Install** or **Upgrade** prompt is displayed (**Recover** does not apply to the installation. It is for 11.3.0.2 Disaster Recovery).



- 5. Press Enter. Install (Fresh Install) is selected by default.
 - The Host Name prompt is displayed.



Caution: If you include "." in a host name, the host name must also include a valid domain name.

6. If want to keep this name, press **Enter**. If you want to change this name, edit it, tab to **OK**, and press **Enter**.

Caution: If you change the deploy_admin user password in the NetWitness Platform User Interface (ADMIN > Security > Select deploy-admin - Reset password),					
RSA RESPOND INVESTIGATE MONIT	OR CONFIGURE	ADMIN	δĻ	(£) admin ⊗	0
Hosts Services Event Sources	Health & Wellnes	s System	Security		
Users Roles External Group Mapping	Settings				
+ - Z • Enable O Disable Reset Passwo	rd 😭 Unlock				
🗆 🔯 🔒 Username Name Re	set Password		×	n	
□ ■ admin ☑ ● deploy_ad deploy_admin	Password Format Requiremen • Must be at least 8 characters	t			
	Password				
	Confirm Password				
	Force password change on ne	ext login	I		
		Cancel	Save		
you must: 1. SSH to the NW Server host. 2. Run the (/opt/rsa/saTools/bin/set-deploy-admin-password script. 3. Use the new password when installing any new non-NW Server hosts. 4. Run (/opt/rsa/saTools/bin/set-deploy-admin-password script on all non-NW Server hosts in your deployment. 5. Write down the password because you may need to refer to it later in the installation.					
The Deployment Password prompt is disp	played.				
The Deployment password is used when deploying NetWitness hosts. It needs to be safely stored and available when deploying additional hosts to your NetWitness Platform. Enter a Deploy Password.					
Password *******					

Note: You must use the same deployment password that you used when you installed the NW Server.

<Cancel>

Verify

* * * * * * * *

< **O**K >

- 7. Type in the **Password**, down arrow to **Verify**, retype the password, tab to **OK**, and press **Enter**.
 - If the Setup program finds a valid IP address for this host, the following prompt is displayed.



Press Enter if you want to use this IP and avoid changing your network settings. Tab to Yes and press Enter If you want to change the IP configuration found on the host.

• If you are using an SSH connection, the following warning is displayed.

Note: If you connect directly from the host console, the following warning will not be displayed.



Press Enter to close warning prompt.

- If the Setup Program found an IP configuration and you chose to use it, the **Update Repository** prompt is displayed. Go to step 11 to and complete the installation.
- If the Setup Program could not find an IP configuration or if you chose to change the existing IP configuration, the **Network Configuration** prompt is displayed.

Caution: Only select "Use DHCP" as an IP address configuration for the NW Server if DHCP issues static IP addresses.



8. Tab to OK and press Enter to use a Static IP.

If you want to use DHCP, down arrow to **2** Use DHCP and press Enter. The Network Configuration prompt is displayed.

NetWitness Platform Network Configuration- Please select the network interface to configure:
l eth0 (up)
< <mark>O</mark> K > < Exit >

9. Down arrow to the network interface you want, tab to **OK**, and press **Enter**. If you do not want to continue, tab to **Exit**.

The following Static IP Configuration prompt is displayed.

-Ne	etWitness Platform Network Configuration Static IP configuration
	IP Address
	Subnet Mask
	Default Gateway
	Local Domain Name
	< OK > < Exit >

10. Type the configuration values (using the down arrow to move from field to field), tab to **OK**, and press **Enter**.

If you do not complete all the required fields, an All fields are required error message is displayed (Secondary DNS Server and Local Domain Name fields are not required).

If you use the wrong syntax or character length for any of the fields, an Invalid <field-name> error message is displayed.

Caution: If you select **DNS Server**, make sure that the DNS Server is correct and the host can access it before proceeding with the installation.

The Update Repository prompt is displayed.

Select the same repo you selected when you installed the NW Server Host for all hosts. NetWitness Platform Update Repository The NetWitness Platform Update Repository contains all the RPMs needed to build and maintain all the NetWitness Platform components. All components managed by the NW Server need access to the Repository. Do you want to set up the NetWitness Platform Update Repository on: The Local Repo (on the NW Server) 1 An External Repo (on an externally-managed server) < <mark>0</mark>K > < Exit >

11. Press Enter to choose the Local Repo on the NW Server.

If you want to use an external repo, down arrow to **External Repo**, tab to **OK**, and press **Enter**.

- If you select 1 The Local Repo (on the NW Server) in the setup program, make sure that you have the appropriate media attached to the host (media that contains the ISO file, for example a build stick) from which it can install NetWitness Platform 11.3.0.2.
- If you select 2 An External Repo (a server managed externally not on the NW Server), the UI prompts you for a URL. The repositories give you access to RSA updates and CentOS updates. Refer to Appendix B. Create an External Repo for instructions on how to create this repo and its external repo URL so you can enter it in the following prompt.



Enter the base URL of the NetWitness Platform external repo, tab to OK and press Enter. The NW Server IP Address prompt is displayed.



12. Type the NW Server IP address. Tab to **OK** and press **Enter**.



- 13. Tab to **No** (default), and press **Enter** to use the standard firewall configuration. Tab to **Yes**, and press **Enter** to disable the standard firewall configuration.
 - If you select Yes, confirm your selection or No to use the standard firewall configuration.



The Start Install prompt is displayed.

Start Install/Upgrade All the required information has been gathered.
Select "1 Install Now" to start the installation on this host.
1 Install Now 2 Restart
< <mark>0</mark> K > < Exit >

- 14. Press Enter to install 11.3.0.2 on the non-NW Server. When Installation complete is displayed, you have a generic non-NW Server host with an operating system compatible with NetWitness Platform 11.3.0.2.
- 15. Install a component service on the host.
 - a. Log into NetWitness Platform and go to ADMIN > Hosts.
 The New Hosts dialog is displayed with the Hosts view grayed out in the background.

Note: If the New Hosts dialog is not displayed, click Discover in the Hosts view toolbar.

b. Select the host in the New Hosts dialog and click Enable.The New Hosts dialog closes and the host is displayed in the Hosts view.

- c. Select that host in the **Hosts** view (for example, **Event Stream Analysis**) and click **Z** Install **Services** dialog is displayed.
- d. Select the appropriate host type (for example, ESA Primary) in Host Type and click Install.

RSA RESPOND	NVESTIGATE MONITOR	CONFIGU					Ō	Û	(î) admin ⊚	?
Hosts Service	es Event Sources	Health & We	ellness Sys	tem	Security					
Groups Ho	osts									
+-20 -	💿 🗹 📙 🗃 Install 🛛 🕂 Update 😒	🥵 Discover	🔂 Reboot Host			Filte	r			×
Name	Name	Host		Services	Current Version	Update Version	Status			
🗄 Ali 🖉 🗆	NW Server	lp-address			11300		Used	Date		
C New Hosts Enable Felect b Host - wid	Event Stream Analysis Public Key Hash public-Key	lp-address	Select the app installation pr you must rein Version: 11. Category:	ropriate ca ocess. If yo hage the ho 3.0.0 Selec Clou	ategory and click u select and inst sst. Hardware Platform ct A Category d Gateway Primary	Install to complet all the wrong categ s4s-esa	e the gory,	ng E Date Date	d Displaying 1 - 4	of 4
				ESA :	Secondary	Cancel	tall	/	11.30.	o-nnnn

You have completed the installation of the non-NW Server host in NetWitness Platform.

- 16. Complete steps 1 through 15 for the rest of the NetWitness Platform non-NW Server components.
- Complete licensing requirements for installed services.
 See the *NetWitness Platform 11.3.0.2 Licensing Management Guide* for more information. Go to the Master Table of Contents to find all NetWitness Platform Logs & Network 11.x documents.

Task 3 - (Optional) Install Warm Standby NW Server

Refer to "Warm Standby NW Server Host" under "Deployment Option Setup Procedures" in the *Deployment Guide for RSA NetWitness Platform 11.3* for instructions on how to set up a Warm Standby NW Server.

Update or Install Windows Legacy Collection

Refer to the *Windows Legacy Collection Guide for RSA NetWitness 11.x* (https://community.rsa.com/docs/DOC-103165).

Note: After you update or install Windows Legacy Collection, reboot the system to ensure that Log Collection functions correctly.

Post Installation Tasks

This topic contains the tasks you complete after you install 11.3.0.2.

- General
- RSA NetWitness® Endpoint
- RSA NetWitness® UEBA
- Federal Information Processing Standard (FIPS) Enablement

Go to the Master Table of Contents to find all NetWitness Platform Logs & Network 11.x documents.

General

General tasks apply to all customers regardless of the NetWitness Components you deploy.

(Optional) Task 1 - Re-Configure DNS Servers Post 11.3.0.2

On the NetWitness Server, complete the following steps to re-configure the DNS servers in NetWitness Platform 11.3.0.2.

- 1. Log in to the server host with your root credentials.
- 2. Edit the /etc/netwitness/platform/resolv.dnsmasq file:
 - Replace the IP address corresponding to nameserver.
 If you need to replace both DNS servers, replace the IP entries for both the hosts with valid addresses.

The following example shows both DNS entries.



The following example shows the new DNS values.



- $b. \ Save the \ \texttt{/etc/netwitness/platform/resolv.dnsmasq} file.$
- c. Restart the internal DNS by running the following command: systemctl restart dnsmasq

RSA NetWitness Endpoint

The tasks in this section only apply to customers that use the RSA NetWitness Endpoint component of NetWitness Platform.

(Optional) Task 2 - Install Endpoint Log Hybrid

Depending on the number of agents and the location of the agents, you can choose to deploy a single Endpoint Log Hybrid host or multiple Endpoint Log Hybrid hosts. To deploy a host, you provision it and install a category on it.

- Single Endpoint Log Hybrid host Deploy NetWitness Server host, Endpoint Log Hybrid host, and ESA host or hosts.
- Multiple Endpoint Log Hybrid hosts Deploy NetWitness Server host, ESA host or hosts, Endpoint Log Hybrid hosts. For a consolidated view of all endpoint data from multiple Endpoint Log Hybrid hosts, install the Endpoint Broker.

Note: RSA recommends that you co-locate the Endpoint Broker on the NetWitness Broker host. However, you can deploy the Endpoint Broker on a separate host or co-locate it on the Endpoint Log Hybrid.

Note: You must plan to scale your ESA deployment to support multiple Endpoint Log Hybrid hosts.

To deploy an Endpoint Log Hybrid host:

- 1. For:
 - A physical host, complete steps 1 14 under "Task 2 Install 11.3.0.2 on Other Component Hosts" under "Installation Tasks" in the *Physical Host Installation Guide for NetWitness Platform 11.3.0.2.*
 - A virtual host, complete steps 1 15 under "Task 2 Install 11.3.0.2 on Other Component Hosts" under "Step 4. Install RSA NetWitness Platform" in the *Virtual Host Installation Guide for NetWitness Platform 11.3.0.2.*
- Log into NetWitness Platform and click ADMIN > Hosts.
 The New Hosts dialog is displayed with the Hosts view grayed out in the background.

Note: If the New Hosts dialog is not displayed, click **Discover** in the **Hosts** view toolbar.

- Select the host in the New Hosts dialog and click Enable. The New Hosts dialog closes and the host is displayed in the Hosts view.

- RSA RESPOND INVESTIGATE MONITOR CONFIGURE -ADMIN 🖑 💭 🕡 admin 🛛 ? Health & Wellness Hosts 2 Groups Hosts + - 🗹 🗘 🙀 Update 💿 🥵 Discover 🛛 👼 Reboot Host Filter × Install Host Services Current Version Update Version Status 🕀 All NW Serve lp-address Install Services Endpoint lp-address Endpoint Log Hybrid Select the appropriate category and click Install to complete the installation process. If you select and install the wrong category, you must reimage the host. Version: 11.3.0.0 Hardware 5 s4s-esa Platform: Select A Category Category: Public Key Hast /ing 1 - 4 of 4 Analyst UI public-key Archiver Broker Cloud Gateway Concentrato Endpoint Broke Endpoint Log Hybrid Log Decoder Log Hybrid Malware Analysis Network Decode Vetwork Hybrid
- 5. Select Endpoint Log Hybrid category and click Install.

- 6. Make sure that the Endpoint Log Hybrid service is running.
- Configure Endpoint Meta forwarding. See *Endpoint Configuration Guide* for instructions on how to configure Endpoint Meta forwarding.
- 8. Deploy the ESA Rules from the Endpoint Rule Bundle. For more information, see "Deploy Endpoint Risk Scoring Rules on ESA" section in the ESA Configuration Guide.

Note: The Endpoint IIOCs are available as OOTB Endpoint Application rules.

9. Review the default policies and create groups to manage your agents. See *Endpoint Configuration Guide*.

Note: In 11.3.0.2, agents can operate in Insights or Advanced mode depending on the policy configuration. The default policy enables the agent in an advanced mode. If you want to continue to use the Insights agent, before updating, review the policy, and make sure that the Agent mode is set to Insights.

10. Install the Endpoint Agent. You can install an Insights (free version) or an Advanced agent (licensed). See *Endpoint Agent Installation Guide* for detailed instructions on how to install the agent.

Note: You can migrate the Endpoint Agent from 4.4.0.x to 11.3.0.2. For more information, see *NetWitness Endpoint 4.4.0.x to NetWitness Platform 11.3.0.2 Migration Guide*.

Task 3 - Configuring Multiple Endpoint Log Hybrid

To install another Endpoint Log Hybrid:

- 1. For
 - A physical host, complete steps 1 14 under "Task 2 Install 11.3.0.2 on Other Component Hosts" under "Installation Tasks" in the *Physical Host Installation Guide for NetWitness Platform 11.3.0.2*.
 - A virtual host, complete steps 1 15 under "Task 2 Install 11.3.0.2 on Other Component Hosts" under "Step 4. Install RSA NetWitness Platform" in the *Virtual Host Installation Guide for NetWitness Platform 11.3.0.2.*
- 2. Create a directory mkdir -p /etc/pki/nw/nwe-ca.
- 3. Copy the following certificates from the first Endpoint Log Hybrid to the second Endpoint Log Hybrid:

Note: RSA recommends that you copy certificates from CentOS to Windows using the SCP command to avoid any corruption caused by Antivirus or third-party tools.

/etc/pki/nw/nwe-ca/nwerootca-cert.pem
/etc/pki/nw/nwe-ca/nwerootca-key.pem

- 4. Complete steps 2 10 under "Task 3 Install Endpoint Log Hybrid" in "Post Installation Tasks" of the *Platform Physical Host Installation Guide*.
- 5. Repeat steps 1 4 to add more Endpoint Log Hybrids.

RSA NetWitness® UEBA

The tasks in this section only apply to customers that use the RSA UEBA component of NetWitness Platform.

(Optional) Task 4 - Install UEBA

To set up NetWitness UEBA in NetWitness Platform 11.3.0.2, you must install and configure the NetWitness UEBA service.

The following procedure shows you how to install the NetWitness UEBA service on a NetWitness UEBA Host Type and configure the service.

- 1. For:
 - A physical host, complete steps 1 14 under "Task 2 Install 11.3.0.2 on Other Component Hosts" under "Installation Tasks" in the *Physical Host Installation Guide for NetWitness Platform 11.3.0.2.*
 - A virtual host, complete steps 1 15 under "Task 2 Install 11.3.0.2 on Other Component Hosts" under "Installation Tasks" in the *Virtual Host Installation Guide for NetWitness Platform 11.3.0.2.*

Note: The Kibana and Airflow webserver User Interface password is the same as the deploy admin password. Make sure that you record this password and store it in a safe location.

Log into NetWitness Platform and go to ADMIN > Hosts.
 The New Hosts dialog is displayed with the Hosts view grayed out in the background.

Note: If the New Hosts dialog is not displayed, click **Discover** in the **Hosts** view toolbar.

- Select the host in the New Hosts dialog and click Enable. The New Hosts dialog closes and the host is displayed in the Hosts view.
- Select that host in the Hosts view (for example, UEBA) and click Imes Install Services dialog is displayed.

- RSA RESPOND INVESTIGATE MONITOR CONFIGURE ADMIN 🖑 🂭 🕄 admin 🛛 ? Health & Wellness Hosts 2 Groups Hosts + - 🗆 O - 🛇 🗧 Update 🗵 🥰 Discover 🛛 👧 Reboot Host Filter × Name Host Services Current Version Update Version Status 🕀 All NW Server lp-address . 11000 In-to-Date UEBA alling - Endpoint Hybrid Δ lp-address Select the appropriate category and click Install to con to-Date nstallation process. If you select and install the wrong category. you must reimage the host. to-Date /ersion: 11.3.0.0 Hardware Platform: 55-esa Enable Select A Category v Category ESA Primary Public Key Has laying 1 - 4 of 4 ESA Secondar public-key host-uuid UEBA
- 5. Select the UEBA Host Type and click Install.

- 6. Make sure that the UEBA service is running.
- 7. Complete licensing requirements for NetWitness UEBA. See the *Licensing Management Guide* for more information.

Note: NetWitness Platform supports the User and Entity Behavior Analytics License (UEBA). This license is used based on the number of users. The Out-of-the-Box Trial License is a 90-day trial license. In case of UEBA licenses, the 90-day trial period begins from the time the UEBA service deployed on the NetWitness Platform product.

8. Configure NetWitness UEBA.

You need to configure a data source (Broker or Concentrator), historical data collection start date, and data schemas.

IMPORTANT: If your deployment has multiple Concentrators, RSA recommends that you assign the Broker at the top of your deployment hierarchy for the NetWitness UEBA data source.

- a. Determine the earliest date in the NWDB of the data schema you plan to choose (AUTHENTICATION, FILE, ACTIVE_DIRECTORY, PROCESS, REGISTRY or any combination of these schemas) to specify in startTime in step c. If you plan to specify multiple schemas, use the earliest date among all the schemas. If you are not sure which data schema to choose, you can specify all five data schemas (that is, AUTHENTICATION, FILE, ACTIVE_ DIRECTORY, PROCESS and REGISTRY) to have UEBA adjust the models it can support based on the Windows logs available. You can use one of the following methods to determine the data source date.
 - Use the Data Retention date (that is, if the Data Retention duration is 48 hours, startTime = <48 hours earlier than the current time>).

- Search the NWDB for the earliest date.
- b. Create a user account for the data source (Broker or Concentrator) to authenticate to the data source.
 - i. Log into NetWitness Platform.
 - ii. Go to **Admin** > **Services**.
 - iii. Locate the data source service (Broker or Concentrator).

Select that service, and select $\textcircled{\circ} \odot$ (Actions) > View > Security.

iv. Create a new user and assign the "Analysts" role to that user. The following example shows a user account created for a Broker

RSA RESPOND INVEST	IGATE MONITOR CONFIGUR	tE ADMIN Č @ admin ⊛ ?
Hosts Services Even	t Sources Health & Wellness	System Security
🙏 Change Service 🛛 👩 Broke	r Security ⊚	
Users Roles Settin	3	
+ - 🗢 🖂	User Information	
Username	Name	Username
Broker	Broker	Broker
admin	Password	Confirm Password
	Email	Description
	test@rsa.coim	
	Lisor Sottings	
	User Settings	
	Auth Type	Core Query Timeout
	Netwitness Platform V	Session Threshold
	Soci 2 Field	0
	Role Membership	
	Groups	
	Administrators	
	Aggregation	
	Analysts	
	Data_Privacy_Officers	
	Malware_Analysts	
	Operators	
	SOC_Managers	
	Data_Privacy_Officers Malware_Analysts Operators SOC_Managers	

c. SSH to the NetWitness UEBA server host.

```
d. Submit the following commands.
   /opt/rsa/saTools/bin/ueba-server-config -u <user> -p <password> -h
   <host> -o <type> -t <startTime> -s <schemas> -v -e
```

Where:

Argument	Variable	Description
-u	<user></user>	User name of the credentials for the Broker or Concentrator instance that you are using as a data source.
-p	<password></password>	Password of the credentials for the Broker or Concentrator instance that you are using as a data source. The following special characters are supported in a password.
		!"#\$%&() *+,-:;<=>?@[\]^_`\{ }
		If you want to include a special character or special characters, you must delimit the password with an apostrophe sign, for example: sh /opt/rsa/saTools/bin/ueba-server- config -u brokeruser -p '!"UHfz?@ExMn#\$' -h 10.64.153.104 -t 2018-08-01T00:00:00Z -s 'AUTHENTICATION FILE ACTIVE_ DIRECTORY' -o broker -v
-h	<host></host>	IP address of the Broker or Concentrator used as the data source. Currently, only one data source is supported.
-0	<type></type>	Data source host type (broker or concentrator).
-t	<starttime></starttime>	Historical start time as of which you start collecting data from the data source in YYYY-MM-DDTHH-MM-SSZ format (for example, 2018-08-15T00:00:00Z).
		Note: The script interprets the time you enter as UTC (Coordinated Universal Time) and it does not adjust the time to your local time zone.

Argument	Variable	Description
-s	<schemas></schemas>	Array of data schemas. If you want to specify multiple schemas, use a space to separate each schema (for example, 'AUTHENTICATION FILE ACTIVE_DIRECTORY PROCESS REGISTRY').
		Note: If you specify all five data schemas (that is, AUTHENTICATION, FILE, ACTIVE_ DIRECTORYPROCESS, and REGISTRY), UEBA adjusts the models it can support based on the Windows logs available.
-V		verbose mode.
-e	<argument></argument>	Boolean Argument. This enables the UEBA indicator forwarder to Respond.
		Note: If the Respond server is configured in NetWitness platform, you can transfer the NetWitness UEBA indicators to the respond server and to the correlation server to create an Incidents.

9. Complete NetWitness UEBA configuration according to the needs of your organization. See the *NetWitness UEBA User Guide* for more information.

Note: If NetWitness Endpoint Server is configured, you can view the alerts associated with the Process and Registry data schemas.

Task 5 - Set up Permission

If you have installed UEBA, you need to assign the UEBA_Analysts and Analysts roles to the UEBA users. For more information, see *System Security and User Management Guide*.

After this configuration, UEBA users can access the **Investigate** > **Users** view.

Federal Information Processing Standard (FIPS) Enablement

Task 6 - Enable FIPS Mode

Note: This task is optional for Upgrades from 10.6.6.x with FIPS enabled for Log Collectors, Log Decoders and Network Decoders).

Federal Information Processing Standard (FIPS) is enabled on all services except Log Collector, Log Decoder, and Decoder. FIPS cannot be disabled on any services except Log Collector, Log Decoder, and Decoder.

Appendix A. Troubleshooting

This section describes solutions to problems that you may encounter during installations and upgrades. In most cases, NetWitness Platform creates log messages when it encounters these problems.

Note: If you cannot resolve an upgrade issue using the following troubleshooting solutions, contact Customer Support (https://community.rsa.com/docs/DOC-1294).

This section has troubleshooting documentation for the following services, features, and processes.

- Command Line Interface (CLI)
- Backup Script
- Event Stream Analysis
- Concentrator Service
- Log Collector Service (nwlogcollector)
- Orchestration
- NW Server
- Reporting Engine
- NetWitness UEBA

Go to the Master Table of Contents to find all NetWitness Platform Logs & Network 11.x documents.

Command Line Interface (CLI)

	Command Line Interface (CLI) displays: "Orchestration failed."				
Error Message	Mixlib::ShellOut::ShellCommandFailed: Command execution failed. STDOUT/STDERR suppressed for sensitive resource in/var/log/netwitness/config-management/chef-solo.log				
Cause	Entered the wrong deploy_admin password in nwsetup-tui.				
	Retrieve your deploy_admin password password.				
Solution	1. SSH to the NW Server host. security-cli-clientget-config-propprop-hierarchy nw.security-clientprop-name deployment.password				
	 2 Run the pusetup-tui again using correct deploy admin password 				
	2. Run the nwsetup-tui again using correct deploy_admin password.				

Error Message	ERROR com.rsa.smc.sa.admin.web.controller.ajax.health. AlarmsController - Cannot connect to System Management Service
Cause	NetWitness Platform sees the Service Management Service (SMS) as down after successful upgrade even though the service is running.
Solution	Restart SMS service. systemctl restart rsa-sms

Error	You receive a message in the User Interface to reboot the host after you update and reboot the host offline.					
Message	SA Server	IP-Address	8 version-number	Reboot Host		
Cause	You cannot use CLI to reboot the host. You must use the User Interface.					
Solution	Reboot the host in the Host View in the User Interface.					

Backup (nw-backup script)

Error Message	WARNING: Incorrect ESA Mongo admin password for host <hostname>.</hostname>
Cause	ESA Mongo admin password contains special characters (for example, '!@#\$%^qwerty').
Solution	Change the ESA Mongo admin password back to the original default of 'netwitness' before running backup.

Error	Backup errors caused by the immutable attribute setting. Here is an example of an error that can be displayed: Backing up NetWitness Config (/etc/netwitness) files from: saserver1 WARNING: Errors occurred while backing up NetWitness Configuration files. Verify contents of saserver1-192.168.2.102-etc-netwitness.tar.gz Located in /var/netwitness/database/nw-backup/2018-03-01/saserver1-192.168.2.102-backup.tar.gz Backing up SA UI Web Server (/var/lib/netwitness/uax) files from: saserver1
Cause	If you have any files that have the immutable flag set (to keep the Puppet process from overwriting a customized file), the file will not be included in the backup process and an error will be generated.
Solution	On the host that contains the files with the immutable flag set, run the following command to remove the immutable setting from the files: chattr -i <filename></filename>

Error	Error creating Network Configuration Information file due to duplicate or bad entries in primary network configuration file: /etc/sysconfig/network-scripts/ifcfg-em1 Verify contents of /var/netwitness/logdecoder/packetdb/nw-backup/2018-02- 23/S5-BROK-36-10.25.53.36-network.info.txt			
Cause	There are incorrect or duplicate entries for any one of the following fields: DEVICE, BOOTPROTO, IPADDR, NETMASK or GATEWAY, that were found from reading the primary Ethernet interface configuration file from the host being backed up.			
	Manually create a file at the backup location on the external backup server, as well as the backup location local to the host where other backups have been staged. The file name should be of the format <hostname>-<hostip>-network.info.txt, and should contain the following entries: DEVICE=<devicename> ; # from the host's primary ethernet interface config file</devicename></hostip></hostname>			
	BOOTPROTO= <bootprotocol> ; # from the host's primary ethernet interface config file</bootprotocol>			
Solution	<pre>IPADDR=<value> ; # from the host's primary ethernet interface config file</value></pre>			
	NETMASK= <value> ; # from the host's primary ethernet interface config file</value>			
	GATEWAY= <value> ; # from the host's primary ethernet interface config file</value>			
	<pre>search <value> ; # from the host's /etc/resolv.conf file</value></pre>			
	nameserver <value> ; # from the host's /etc/resolv.conf file</value>			

Event Stream Analysis

- For ESA Correlation troubleshooting information, see the *Alerting with ESA Correlation Rules User Guide*.
- For ESA Analytics troubleshooting information, see the *Automated Threat Detection Configuration Guide*.

Concentrator Service

Problem	After you upgrade to 11.3.0.2, pivot to navigate query fails if the Concentrator service version is 10.6.x.	
Cause	Pivot to Navigate query fails as it contains meta entities and 10.6.x Concentrator service does not support meta entities.	
Solution	You must edit the query and remove meta entities. For example, if query is for user then remove the user.all meta entity and re-run the query.	

Log Collector Service (nwlogcollector)

Log Collector logs are posted to /var/log/install/nwlogcollector_install.log on the host running the nwlogcollector service.

Error Message	<timestamp>.NwLogCollector_PostInstall: Lockbox Status : Failed to open lockbox: The lockbox stable value threshold was not met because the system fingerprint has changed. To reset the system fingerprint, open the lockbox using the passphrase.</timestamp>		
Cause	The Log Collector Lockbox failed to open after the update.		
Solution	Log in to NetWitness Platform and reset the system fingerprint by resetting the stable system value password for the Lockbox as described in the "Reset the Stable System Value" topic under "Configure Lockbox Security Settings" topic in the <i>Log Collection Configuration Guide</i> .		

Error Message	<timestamp> NwLogCollector_PostInstall: Lockbox Status : Not Found</timestamp>			
Cause	The Log Collector Lockbox is not configured after the update.			
Solution	If you use a Log Collector Lockbox, log in to NetWitness Platform and configure the Lockbox as described in the "Configure Lockbox Security Settings" topic in the Log <i>Collection Configuration Guide</i> .			

Error Message	<timestamp>: NwLogCollector_PostInstall: Lockbox Status : Lockbox maintenance required: The lockbox stable value threshold requires resetting. To reset the system fingerprint, select Reset Stable System Value on the settings page of the Log Collector.</timestamp>	
Cause	You need to reset the stable value threshold field for the Log Collector Lockbox.	
Solution	Log in to NetWitness Platform and reset the stable system value password for the Lockbo as described in "Reset the Stable System Value" topic under "Configure Lockbox Securi Settings" topic in the <i>Log Collection Configuration Guide</i> .	

Problem	You have prepared a Log Collector for upgrade and no longer want to upgrade at this time.			
Cause	Delay in upgrade.			
Solution	Use the following command string to revert a Log Collector that has been prepared for upgrade back to resume normal operation.			
	<pre># /opt/rsa/nwlogcollector/nwtools/prepare-for-migrate.shrevert</pre>			

NW Server

These logs are posted to /var/netwitness/uax/logs/sa.log on the NW Server Host.

	After upgrade, you notice that Audit logs are not getting forwarded to the configured Global Audit Setup;		
Problem	or, The following message seen in the sa.log. Syslog Configuration migration failed. Restart jetty service to fix this issue		
Cause	NW Server Global Audit setup migration failed to migrate from 10.6.6.x to 11.3.0.2.		
Solution	 SSH to the NW Server. Submit the following command. orchestration-cli-clientupdate-admin-node 		

Orchestration

The orchestration server logs are posted to /var/log/netwitness/orchestration-server.log on the NW Server Host.

	1. Tried to upgrade a non-NW Server host and it failed.					
Duchlom	2. Retried the upgrade for this host and it failed again.					
Problem						
	You will see the following message in the orchestration-server.log. "'file'_virtual_ returned False: cannot import name HASHES""					
Cause	Salt minion may have been upgraded and never restarted on failed non-NW Server host					
	1. SSH to the non-NW Server host that failed to upgrade.					
	2. Submit the following commands.					
Solution	systemctl unmask salt-minion					
	3. Ketry the upgrade of the non-NW Server host.					

Reporting Engine Service

Reporting Engine Update logs are posted to to/var/log/re_install.log file on the host running the Reporting Engine service.

Error Message	<timestamp> : Available free space in /var/netwitness/re- server/rsa/soc/reporting-engine [><existing-gb]="" is="" less="" than="" the<br="">required space [<required-gb>]</required-gb></existing-gb></timestamp>	
Cause	Update of the Reporting Engine failed because you do not have enough disk space.	
Solution	Free up the disk space to accommodate the required space shown in the log message. See the "Add Additional Space for Large Reports" topic in the <i>Reporting Engine Configurati Guide</i> for instructions on how to free up disk space.	

NetWitness UEBA

Problem	The User Interface is not accessible.				
Cause	You have more than one NetWitness UEBA service existing in your NetWitness deployment and you can only have NetWitness UEBA service in your deployment.				
	Complete the following steps to remove the extra NetWitness UEBA service.				
	 SSH to NW Server and run the following commands to query the list of installed NetWitness UEBA services. # orchestration-cli-clientlist-services grep presidio-airflow 				
	<pre>NAME=presidio-airflow, HOST=xxx.xxx.xxx.xxx:null, TLS=true Service: ID=3ba35fbe-7220-4e26-a2ad-9e14ab5e9e15, NAME=presidio-airflow, HOST=xxx.xxx.xxx.xxx:null, TLS=true</pre>				
Solution	2. From the list of services, determine which instance of the presidio-airflow service should be removed (by looking at the host addresses).				
	3. Run the following command to remove the extra service from Orchestration (use the matching service ID from the list of services): # orchestration-cli-clientremove-serviceid <id-for-presidio-airflow-form-previous-output></id-for-presidio-airflow-form-previous-output>				
	<pre>4. Run the following command to update NW Server to restore NGINX: # orchestration-cli-clientupdate-admin-node</pre>				
	 Log in to NetWitness Platform, go to ADMIN > Hosts, and remove the extra NetWitness UEBA host. 				

Appendix B. Create an External Repository

Complete the following procedure to set up an external repository (Repo).

- 1. Log in to the web server host.
- Create the ziprepo directory to host the NW repository (netwitness-11.3.0.2.zip) under web-root of the web server. For example, if /var/netwitness is the web-root, submit the following command string.

mkdir /var/netwitness/ziprepo

- 3. Create the 11.3.0.2 directory under /var/netwitness/ziprepo. mkdir /var/netwitness/ziprepo/11.3.0.2
- 4. Create the OS and RSA directories under /var/netwitness/ziprepo/11.3.0.2. mkdir /var/netwitness/ziprepo/11.3.0.2/OS mkdir /var/netwitness/ziprepo/11.3.0.2/RSA
- 5. Unzip the netwitness-11.3.0.2.zip file into the /var/netwitness/ziprepo/11.3.0.2 directory.

unzip netwitness-11.3.0.2.zip -d /var/netwitness/ziprepo/11.3.0.2 Unzipping netwitness-11.3.0.2.zip results in two zip files (OS-11.3.0.2.zip and RSA-11.3.0.2.zip) and some other files.

- 6. Unzip the:
 - a. OS-11.3.0.2.zip into the /var/netwitness/ziprepo/11.3.0.2/OS directory. unzip /var/netwitness/ziprepo/11.3.0.2/OS-11.3.0.2.zip -d /var/netwitness/ziprepo/11.3.0.2/OS

Parent	Direct	orv
	ALC: 3 A C C C C	

?	GeoIP-1.5.0-11.el7.x86_64.rpm	20-Nov-2016 12:49	1.1M
?	HostAgent-Linux-64-x86-en_US-1.2.25.1.0163-1.x86_64.rpm	03-Oct-2017 10:07	4.6M
?	Lib_Utils-1.00-09.noarch.rpm	03-Oct-2017 10:05	1.5M
?	OpenIPMI-libs-2.0.19-15.el7.x86_64.rpm	20-Nov-2016 14:43	502K
?	OpenIPMI-modalias-2.0.19-15.el7.x86_64.rpm	20-Nov-2016 14:43	15K
?	PyYAML-3.11-1.el7.x86_64.rpm	19-Dec-2017 12:30	160K
?	SDL-1.2.15-14.el7.x86_64.rpm	25-Nov-2015 10:39	204K
?	acl-2.2.51-12.el7.x86_64.rpm	03-Oct-2017 10:04	81K
?	adobe-source-sans-pro-fonts-2.020-1.el7.noarch.rpm	13-Feb-2018 05:10	706K
?	alsa-lib-1.1.3-3.el7.x86_64.rpm	10-Aug-2017 10:52	421K
?	at-3.1.13-22.el7 4.2.x86 64.rpm	25-Jan-2018 17:56	51K
?	atk-2.22.0-3.el7.x86_64.rpm	10-Aug-2017 10:53	258K
?	attr-2.4.46-12.el7.x86_64.rpm	03-Oct-2017 10:04	66K
_			

b. RSA-11.3.0.2.zip into the /var/netwitness/ziprepo/11.3.0.2/RSA directory. unzip /var/netwitness/ziprepo/11.3.0.2/RSA-11.3.0.2.zip -d

/var/netwitness/ziprepo/11.3.0.2/RSA

Parent Directory	
MegaCli-8.02.21-1.noarch.rpm	03-Oct-2017 10:07 1.2M
OpenIPMI-2.0.19-15.el7.x86_64.rpm	03-Oct-2017 10:07 173K
bind-utils-9.9.4-51.el7_4.2.x86_64.rpm	22-Jan-2018 09:03 203K
bzip2-1.0.6-13.el7.x86_64.rpm	03-Oct-2017 10:07 52K
Cifs-utils-6.2-10.el7.x86_64.rpm	10-Aug-2017 11:14 85K
device-mapper-multipath-0.4.9-111.el7_4.2.x86_64.rpm	25-Jan-2018 17:56 134K
dnsmasq-2.76-2.el7_4.2.x86_64.rpm	02-Oct-2017 19:36 277K
elasticsearch-5.6.9.rpm	17-Apr-2018 09:37 32M
rlang-19.3-1.el7.centos.x86_64.rpm	03-Oct-2017 10:07 17K
fneserver-4.6.0-2.el7.x86_64.rpm	27-Feb-2018 09:11 1.3M
htop-2.1.0-1.el7.x86_64.rpm	14-Feb-2018 19:23 102K
140e-ze-2.3.6.12-1dkms.noarch.rpm	04-May-2018 11:08 399K
pmitool-1.8.18-5.el7.x86_64.rpm	10-Aug-2017 12:41 441K
ptables-services-1.4.21-18.3.el7_4.x86_64.rpm	08-Mar-2018 09:20 51K
ixgbe-zc-5.0.4.12-dkms.noarch.rom	04-May-2018 11:08 374K

The external url for the repo is http://<web server IP address>/ziprepo.

7. Use the http://<web server IP address>/ziprepo in response to Enter the base URL of the external update repositories prompt from NW 11.3.0.2 Setup program (nwsetup-tui) prompt.

Revision History

Revision	Date	Description	Author
1.0	25-Sep-19	General Availability	IDD