



# Physical Host Installation Guide

for Version 11.2



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## Introduction

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The instructions in this guide apply to physical hosts exclusively. See the *RSA NetWitness Platform Virtual Host Installation Guide* for instructions on how to set up virtual hosts in 11.2.

## Supported Hardware

Series 4, Series 4S, and Series 5.

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 Hybrid or Endpoint Log Hybrid Host Hardware Specifications

You must install the new Endpoint Hybrid host or Endpoint Log Hybrid host on the Series 5 (Dell R730) hardware or Series 6 (Dell R740 hardware. See "(Optional) Task 2 - Install Endpoint Hybrid or Endpoint Log Hybrid" in [Post Installation Tasks](#) for instructions on how to install Endpoint Hybrid and Endpoint Log Hybrid.

## RSA NetWitness UEBA Host Hardware Specifications

You must install the new NetWitness UEBA host on the S5 (Dell R630 appliance) hardware. See "(Optional) Task 3 - Install NetWitness UEBA" in [Post Installation Tasks](#) for instructions on how to install NetWitness UEBA.

### SERIES 5 (DELL R630) SPECIFICATIONS

Specification	Capacity
Model	Dell PowerEdge R630xl
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
External Disk Controller	Dell PERC H830
SAN Connectivity (HBA) - Optional	N/A

Specification	Capacity
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*	<u>On Board</u> 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.

## Physical Host Installation Workflow

The following diagram illustrates the RSA NetWitness® Platform 11.2 Physical Host Installation 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 11.2.

## Installation Preparation - Open Firewall Ports

---

The "Network Architecture and Ports" topic in the *RSA NetWitness® Platform Deployment Guide* lists all the ports in a deployment. Go to the [Master Table of Contents](#) to find all NetWitness Platform Logs & Network 11.x documents.

**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 11.2 on physical hosts.

There are two main tasks that you must complete in the order shown.

[Task 1 - Install 11.2 on the NetWitness Server \(NW Server\) Host](#)

[Task 2 - Install 11.2 on All Other Component Hosts](#)

### Task 1 - Install 11.2 on the NetWitness Server (NW Server) Host

For the NW Server, this task:

- Creates a base image.
- Sets up the 11.2 NW Server host.

Complete the following steps to install the 11.2 NW Server host.

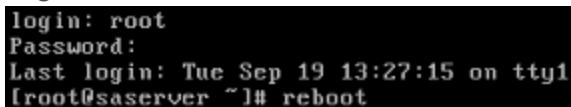
1. Create a base image on the host:

a. Attach media (ISO) to the host.

See the *RSA NetWitness Platform Build Stick Instructions* for more information.

- Hypervisor installations - use the ISO image.
- Physical media - use the ISO to create bootable flash drive media using the Universal Netboot Installer (UNetbootin) or another suitable imaging tool. See the *RSA NetWitness® Platform Build Stick Instructions* for information on how to create a build stick from the ISO. Go to the [Master Table of Contents](#) to find all NetWitness Platform Logs & Network 11.x documents.
- iDRAC installations - the virtual media type is:
  - **Virtual Floppy** for mapped flash drives.
  - **Virtual CD** for mapped optical media devices or ISO file.

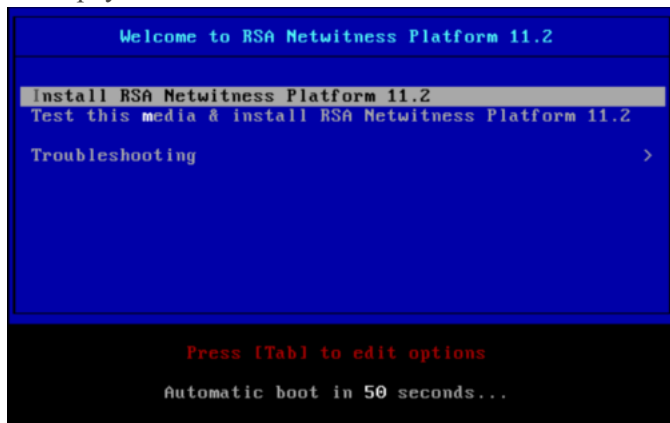
b. Log in to the host and reboot it.



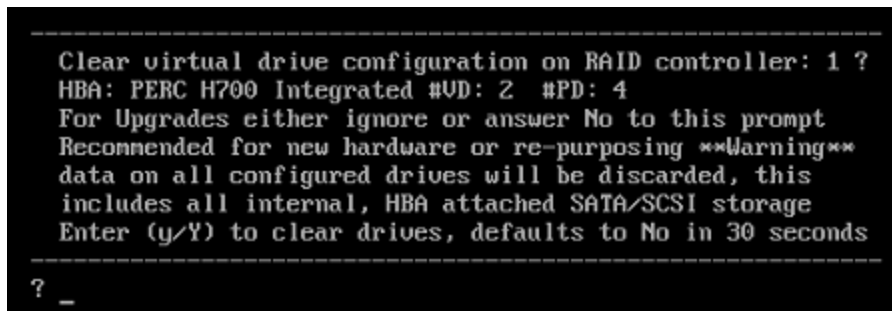
```
login: root
Password:
Last login: Tue Sep 19 13:27:15 on tty1
[root@saserver ~]# reboot
```

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 11.2** installation menu is displayed. The menu graphics will render differently if you

use a physical USB flash media.



- d. Select **Install RSA NetWitness Platform 11.2** (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><DEL> 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: 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 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 11.2" 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
```

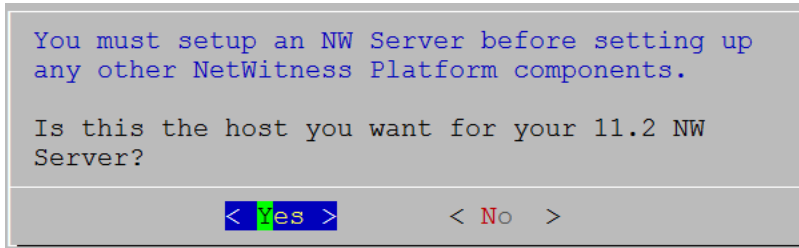
92%

&lt;Accept &gt;

&lt;Decline&gt;

3. Tab to **Accept** and press **Enter**.

The **Is this the host you want for your 11.2 NW Server** prompt is displayed.



You must setup an NW Server before setting up any other NetWitness Platform components.

Is this the host you want for your 11.2 NW Server?

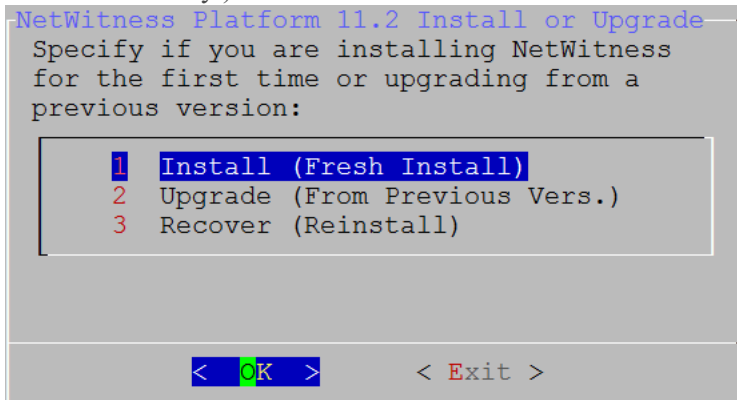
< **Yes** >      < No >

4. Tab to **Yes** and press **Enter**.

Choose **No** if you already installed 11.2 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 11.2 Disaster Recovery.).



NetWitness Platform 11.2 Install or Upgrade

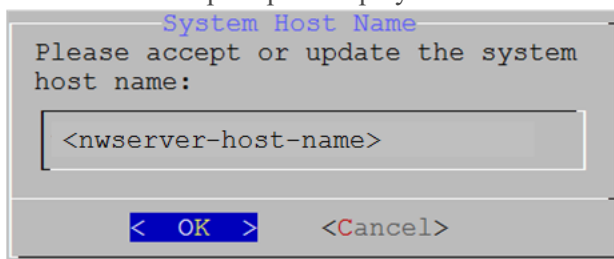
Specify if you are installing NetWitness for the first time or upgrading from a previous version:

- 1 **Install (Fresh Install)**
- 2 Upgrade (From Previous Vers.)
- 3 Recover (Reinstall)

< **OK** >      < Exit >

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

The **Host Name** prompt is displayed.



System Host Name

Please accept or update the system host name:

<nwserver-host-name>

< **OK** >      <Cancel>

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

The **Master Password** prompt is displayed.

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

**Master Password**

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>

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

**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.

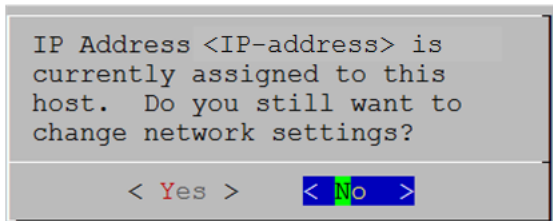
Enter a Deploy Password.

Password	*****
Verify	*****

< OK >      <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.

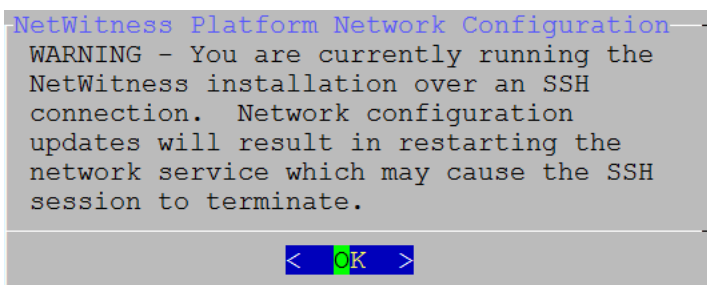
- If the Setup program finds a valid IP address for this host, the following prompt is displayed.



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.

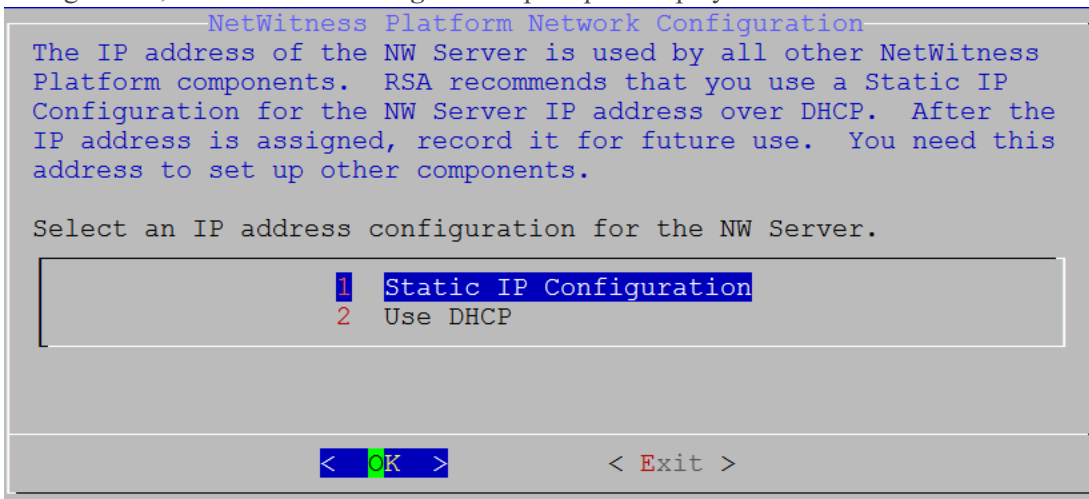
- If you are using an SSH connection, the following warning is displayed.

**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 12 to and complete the installation.
- If the Setup Program did not find an IP configuration or if you chose to change the existing IP configuration, the **Network Configuration** prompt is displayed.



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 Configuration

Please select the network interface to configure:

1	eth0 (up)
---	-----------

< **OK** >      < 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**.

The following **Static IP Configuration** prompt is displayed.

NetWitness Platform Network Configuration

Static IP configuration

IP Address	
Subnet Mask	
Default Gateway	
Primary DNS Server	
Secondary DNS Server	
Local Domain Name	

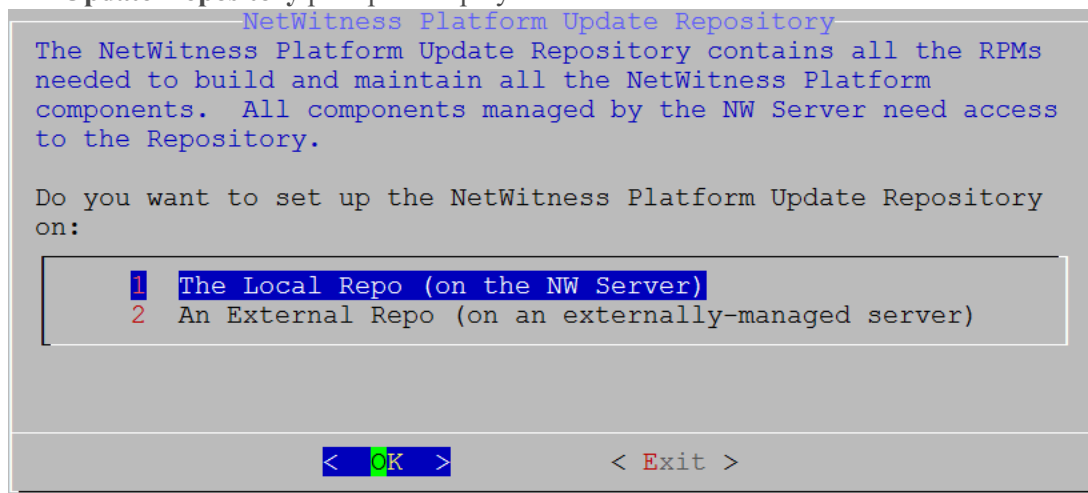
< **OK** >      < Exit >

11. 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.



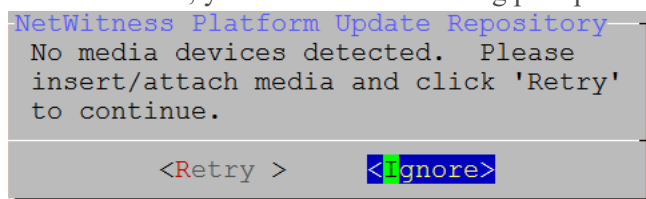
The **Update Repository** prompt is displayed.



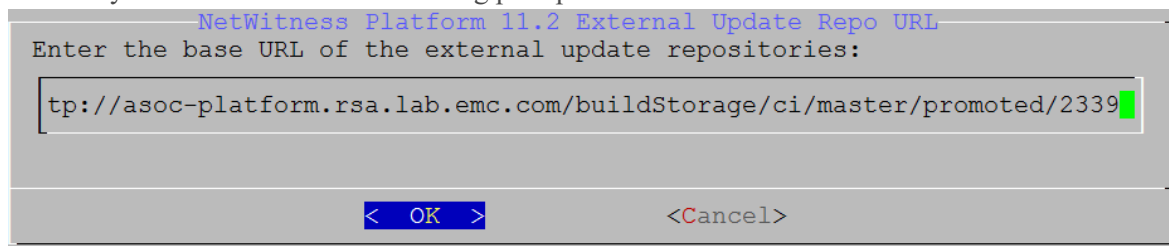
12. Press **Enter** to choose the **Local Repo** on the NW Server.

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 11.2.0.0. If the program cannot find the attached media, you receive the following prompt.



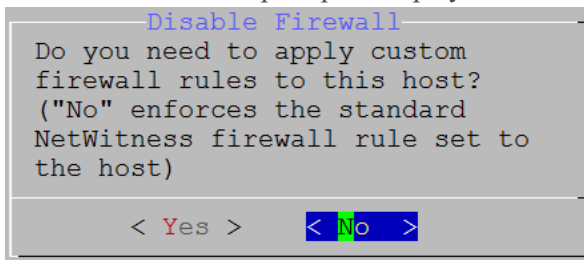
- If you select **2 An External Repo (on an externally-managed server)**, the UI prompts you for a URL. The repositories give you access to RSA updates and CentOS updates. Refer to [Appendix B. Create an External Repository](#) for instructions on how to create this repo and its external repo URL so 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.

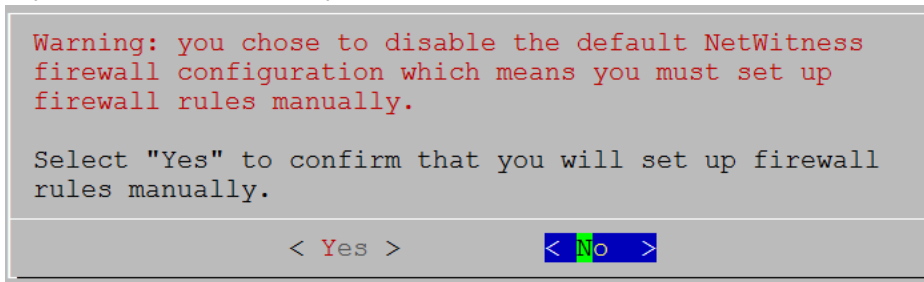
See "Set Up an External Repository with RSA and OS Updates" under "Hosts and Services Procedures" in the *RSA NetWitness Platform Hosts and Services Getting Started Guide* for instructions. Go to the [Master Table of Contents](#) to find all NetWitness Platform Logs & Network 11.x documents.

The Disable firewall prompt is displayed.

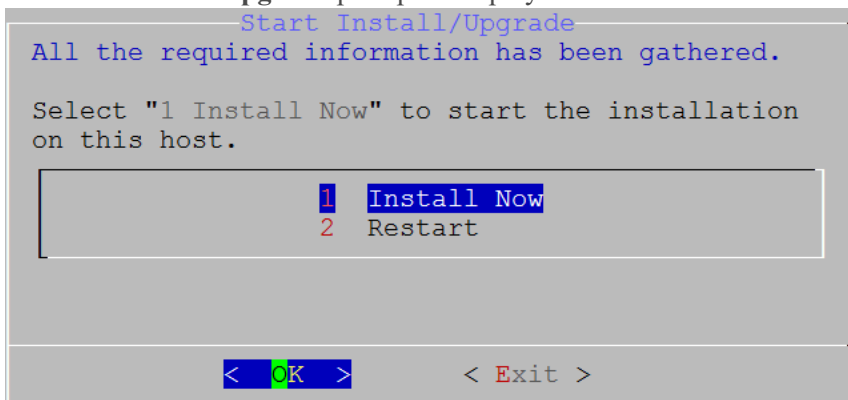


13. Tab to **No** (default), and press **Enter** to use the standard firewall configuration. Tab to **Yes**, and press **Enter** to disable the standard firewall configuration.

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



The **Start Install/Upgrade** prompt is displayed.



14. Press **Enter** to install 11.2 on the NW Server.

When **Installation complete** is displayed, you have installed the 11.2 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.

```
ValueError: error:3207A06D:lib(50):B_HASH_init:cr new
Checksum type 'md5' disabled
(skipped due to only_if)
  * file[/etc/yum.repos.d/CentOS-Base.repo] action delete (up to date)
  * ruby_block[yum-cache-reload-CentOS-Base] action nothing (skipped due to action :nothing)
    (up to date)
  * yum_repository[Remove CentOS-CR repository] action delete
  * execute[yum clean all CentOS-CR] action runERROR:root:code for hash md5 was not found.
Traceback (most recent call last):
  File "/usr/lib64/python2.7/hashlib.py", line 129, in <module>
    globals()[__func_name] = __get_hash(__func_name)
  File "/usr/lib64/python2.7/hashlib.py", line 98, in __get_openssl_constructor
    f(usedforsecurity=False)
```

## Task 2 - Install 11.2 on Other Component Hosts

For a non-NW Server host this task:

- Creates a base image.
- Sets up the 11.2 non-NW Server host.

For ESA hosts:

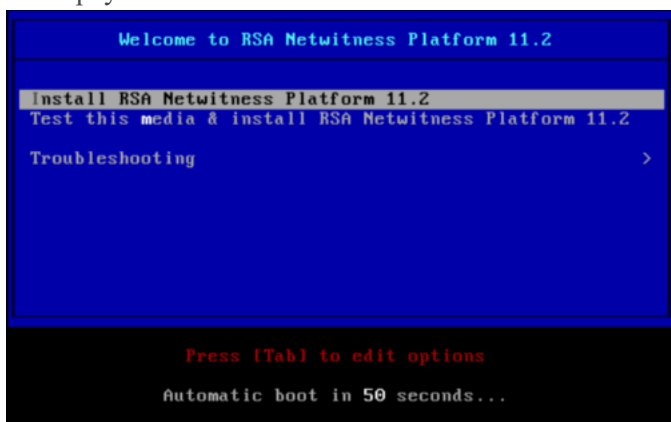
- Install your primary ESA host and install the **ESA Primary** service on it after you finish the Set Up program in the UI on the **ADMIN > Hosts** view.
- (Conditional) If you have a secondary ESA host, install it and install the **ESA Secondary** service on it after you finish the Set Up program in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

Complete the following steps to install NetWitness Platform 11.2 on a non-NW Server host.

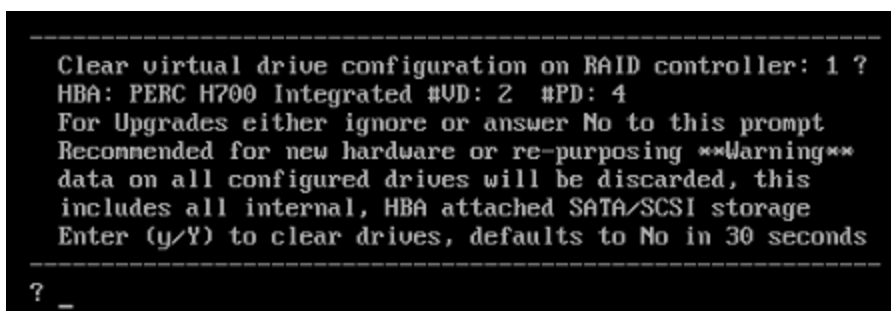
1. Create a base image on the host:
  - a. Attach media (media that contains the ISO file, for example a build stick) to the host. See the *RSA NetWitness Platform Build Stick Instructions* for more information.
    - Hypervisor installs - use the ISO image.
    - Physical media - use the ISO file to create bootable flash drive media using the Universal Netboot Installer (UNetbootin) or another suitable imaging tool. See the *RSA NetWitness® Platform Build Stick Instructions* for information on how to create a build stick from the ISO file. Go to the [Master Table of Contents](#) to find all NetWitness Platform Logs & Network 11.x documents.
    - iDRAC installations - the virtual media type is:
      - **Virtual Floppy** for mapped flash drives.
      - **Virtual CD** for mapped optical media devices or ISO file.See the *RSA NetWitness Platform Build Stick Instructions* for more information.
  - 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 11.2** installation menu is displayed. The menu graphics will render differently if you use a physical USB flash media.



- d. Select **Install RSA NetWitness Platform 11.2** (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><DEL> 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: 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:** 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 11.2" 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

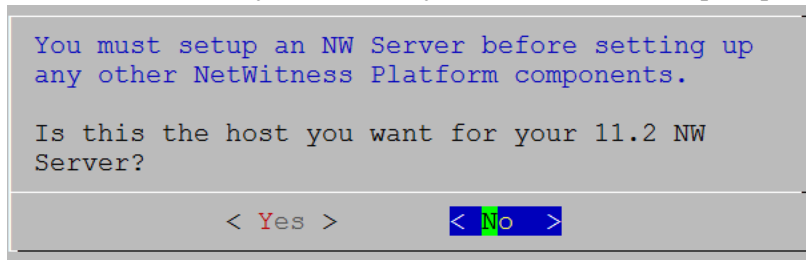
92%

&lt;Accept &gt;

&lt;Decline&gt;

3. Tab to **Accept** and press **Enter**.

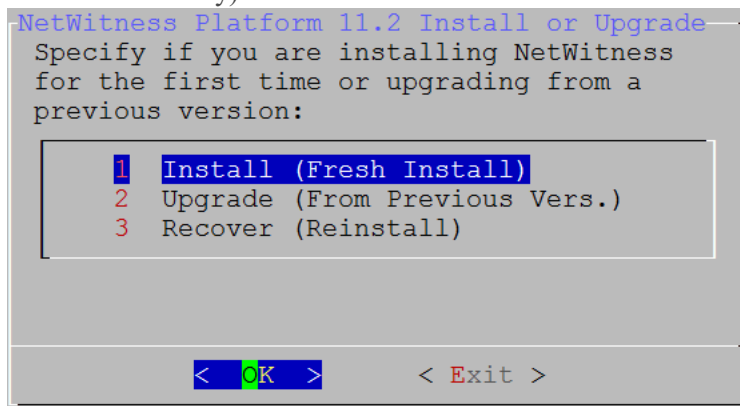
The **Is this the host you want for your 11.2 NW Server** prompt is displayed.



**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 11.2 on the NetWitness Server \(NW Server\) Host](#) to correct this error.

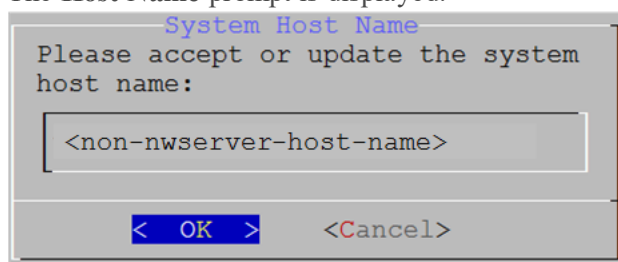
4. Press **Enter** (No).

The **Install** or **Upgrade** prompt is displayed (**Recover** does not apply to the installation. It is for 11.2 Disaster Recovery).



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

The **Host Name** prompt is displayed.



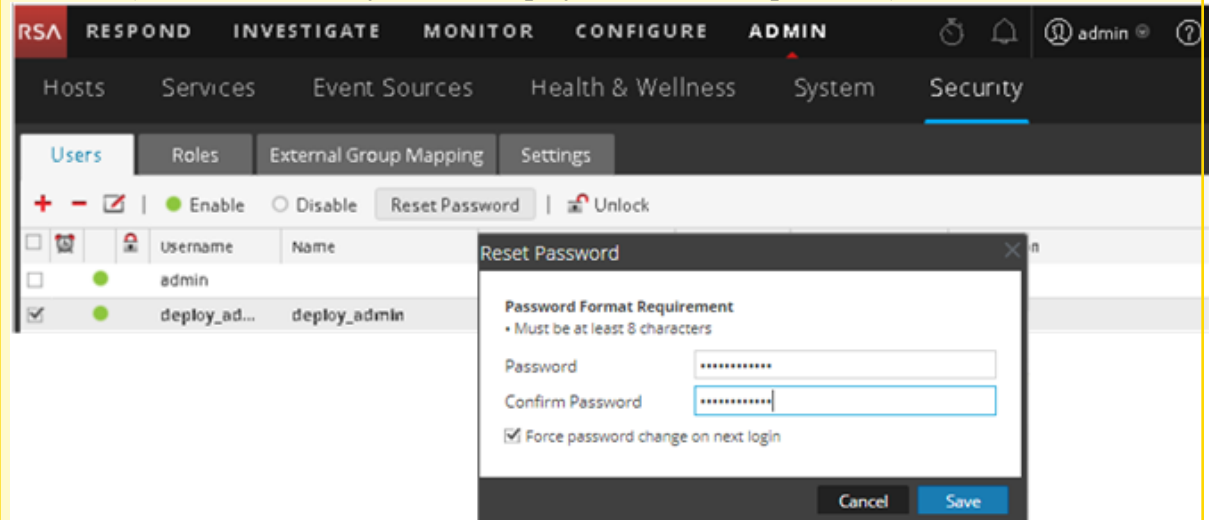
**Caution:** If you include "." in a host name, the host name must also include a valid domain name.



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

The **Master Password** prompt is displayed.

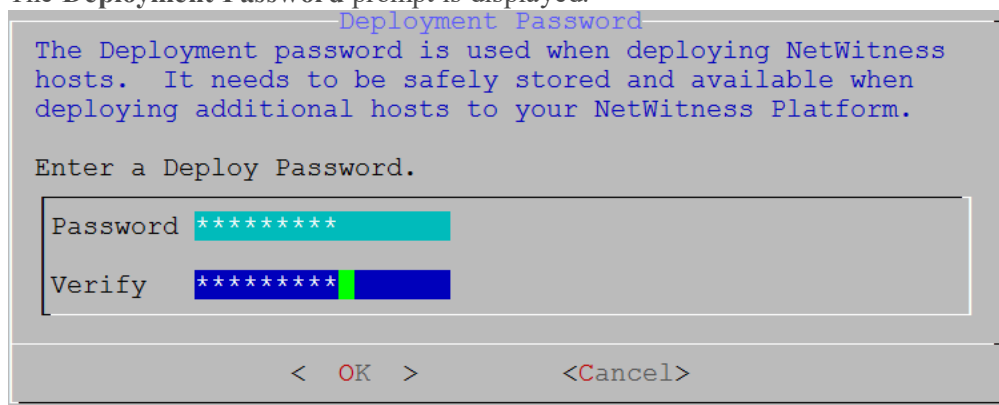
**Caution:** If you change the **deploy\_admin** user password in the NetWitness Platform User Interface (**ADMIN > Security > Select deploy-admin - Reset password**),



you must:

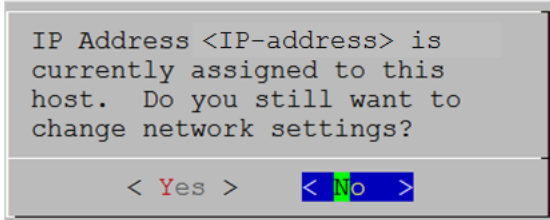
1. SSH to the NW Server host.
2. Run the `(/opt/rsa/saTools/bin/set-deploy-admin-password` script.
3. Use the new password when installing any new non-NW Server hosts.
4. Run `(/opt/rsa/saTools/bin/set-deploy-admin-password` script on all non-NW Server hosts in your deployment.
5. Write down the password because you may need to refer to it later in the installation.

The **Deployment Password** prompt is displayed.



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

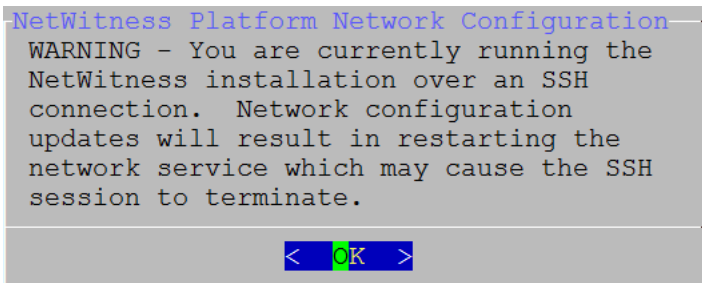
7. Type in the **Password**, down arrow to **Verify**, retype the password, tab to **OK**, and press **Enter**.
  - If the Setup program finds a valid IP address for this host, the following prompt is displayed.



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.

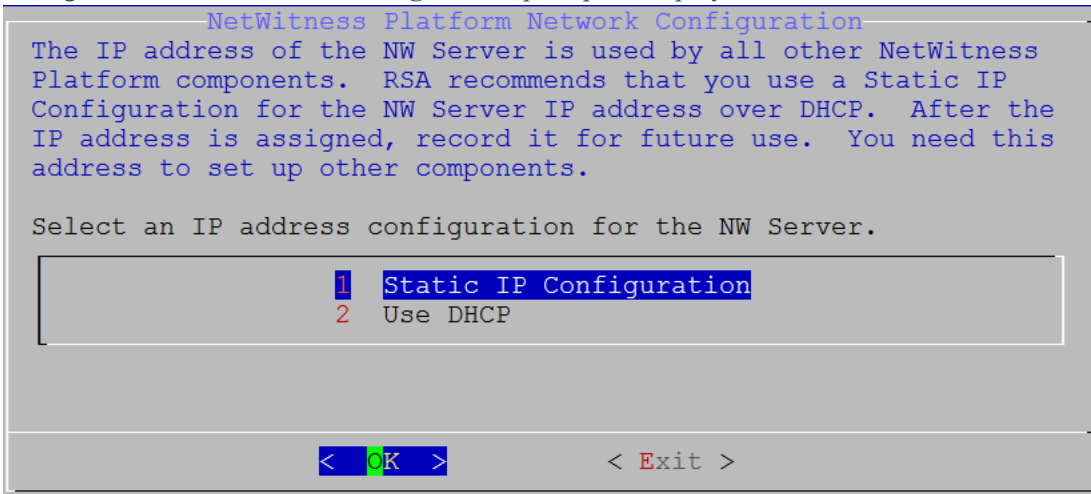
- If you are using an SSH connection, the following warning is displayed.

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



Press **Enter** to close warning prompt.

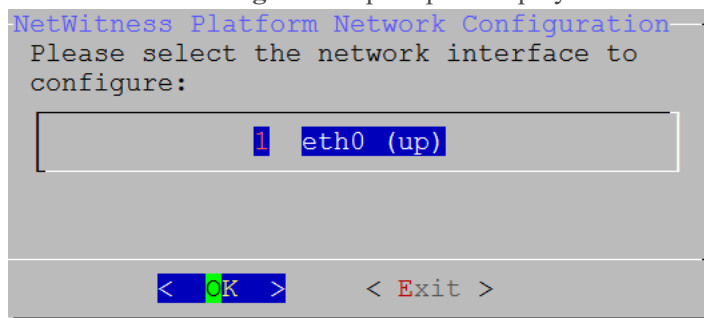
- If the Setup Program found an IP configuration and you chose to use it, the **Update Repository** prompt is displayed. Go to step 11 to and complete the installation.
- If the Setup Program could not find an IP configuration or if you chose to change the existing IP configuration, the **Network Configuration**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



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

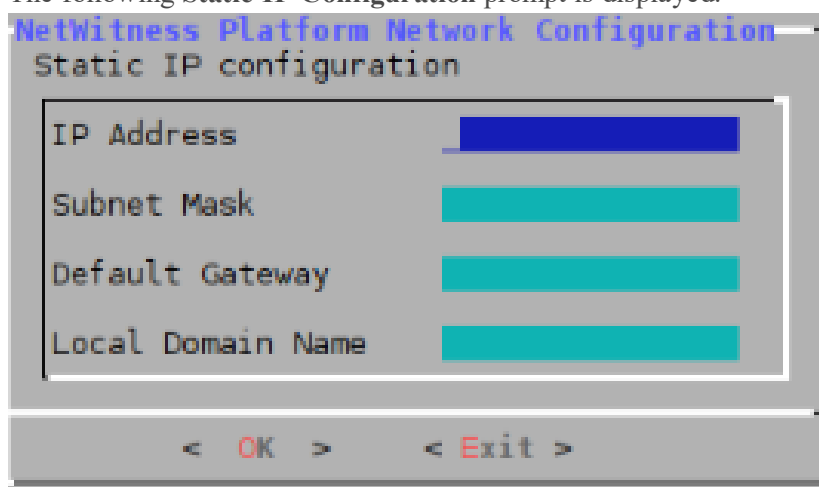
Please select the network interface to configure:

1	eth0 (up)
---	-----------

< **OK** >      < **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.



NetWitness Platform Network Configuration

Static IP configuration

IP Address	<input type="text"/>
Subnet Mask	<input type="text"/>
Default Gateway	<input type="text"/>
Local Domain Name	<input type="text"/>

< **OK** >      < **Exit** >

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

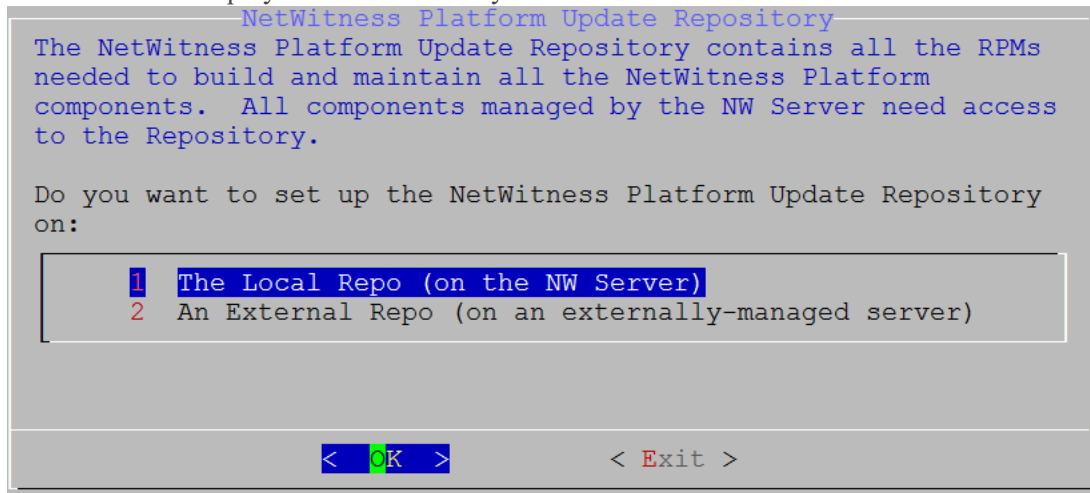
If you do not complete all the required fields, an `All fields are required` error message is displayed (**Secondary DNS Server** and **Local Domain Name** fields are not required).

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.

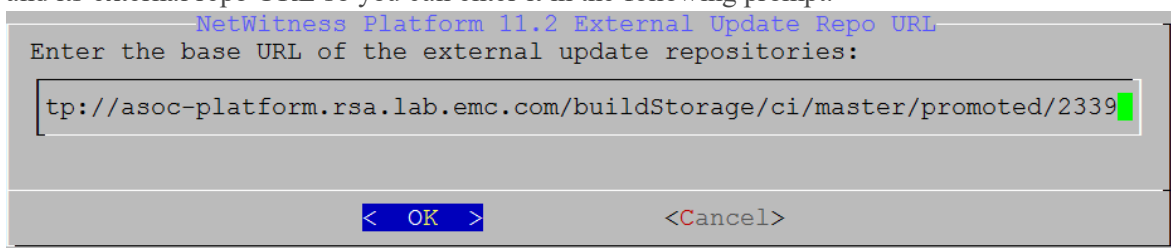
Select the same repo you selected when you installed the NW Server Host for all hosts.



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

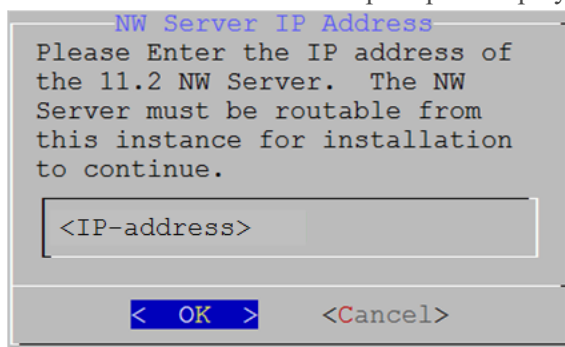
If you want to use an external repo, down arrow to **External Repo**, tab to **OK**, and press **Enter**.

- 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 11.2.0.0.
- 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 Repository](#) 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**.

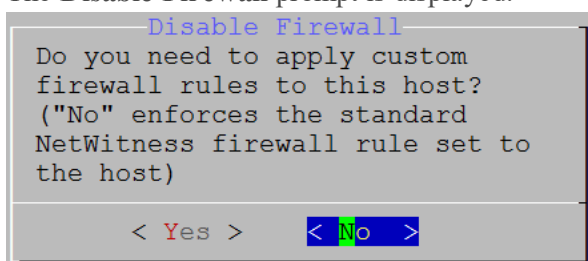
The **NW Server IP Address** prompt is displayed.



A dialog box titled "NW Server IP Address" in blue text. The main text reads: "Please Enter the IP address of the 11.2 NW Server. The NW Server must be routable from this instance for installation to continue." Below the text is a text input field containing the placeholder "<IP-address>". At the bottom, there are two buttons: "< OK >" and "<Cancel>".

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

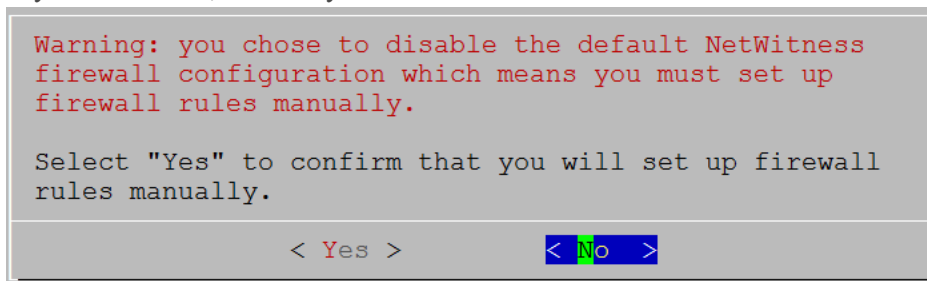
The **Disable Firewall** prompt is displayed.



A dialog box titled "Disable Firewall" in blue text. The main text reads: "Do you need to apply custom firewall rules to this host? ('No' enforces the standard NetWitness firewall rule set to the host)". At the bottom, there are two buttons: "< Yes >" and "< No >".

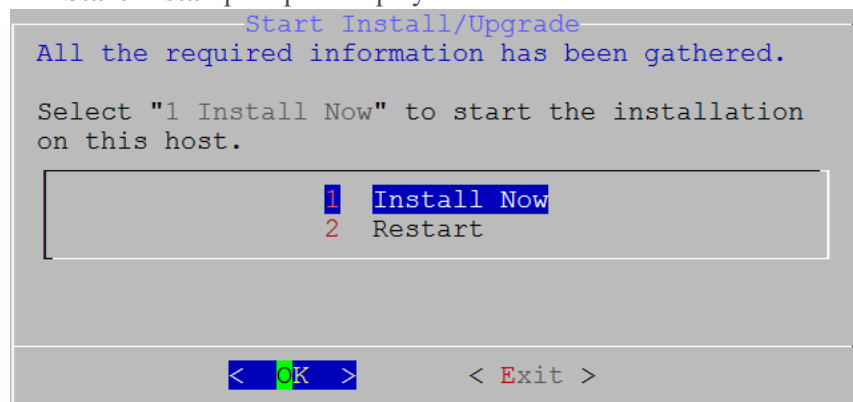
13. Tab to **No** (default), and press **Enter** to use the standard firewall configuration. Tab to **Yes**, and press **Enter** to disable the standard firewall configuration.

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



A dialog box with red text. The main text reads: "Warning: you chose to disable the default NetWitness firewall configuration which means you must set up firewall rules manually." Below this, it says: "Select 'Yes' to confirm that you will set up firewall rules manually." At the bottom, there are two buttons: "< Yes >" and "< No >".

The **Start Install** prompt is displayed.





A dialog box titled "Start Install/Upgrade" in blue text. The main text reads: "All the required information has been gathered. Select '1 Install Now' to start the installation on this host." Below the text is a list box containing two items: "1 Install Now" and "2 Restart". At the bottom, there are two buttons: "< OK >" and "< Exit >".

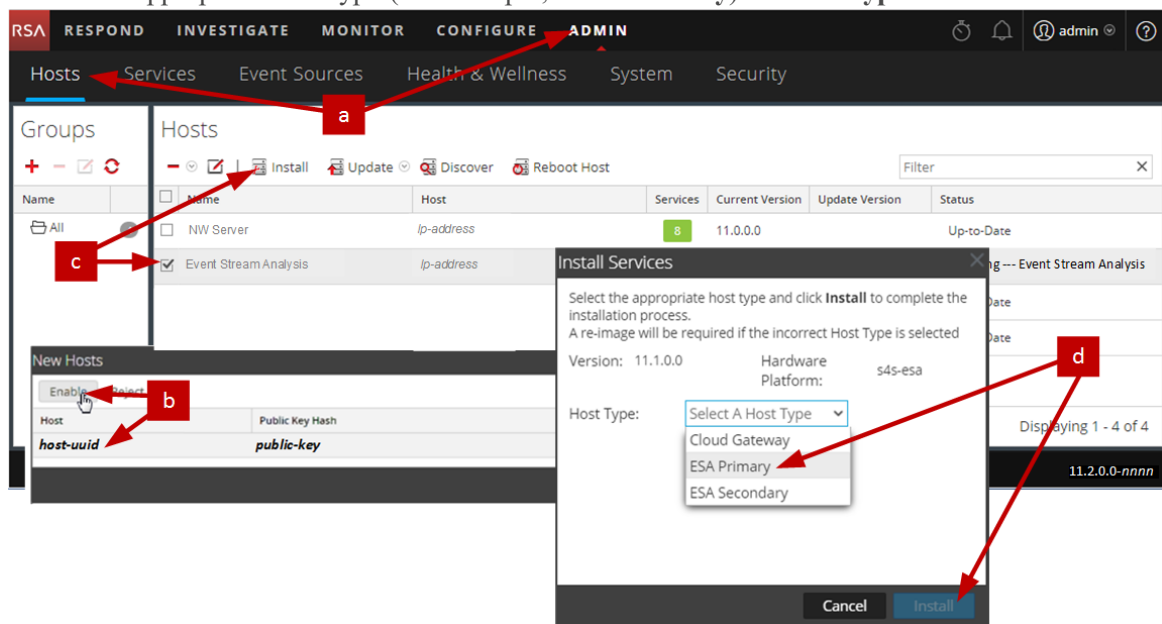
14. Press **Enter** to install 11.2 on the non-NW Server.  
When **Installation complete** is displayed, you have a generic non-NW Server host with an operating system compatible with NetWitness Platform 11.2.

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  **Install** .  
The **Install Services** dialog is displayed.
- d. Select the appropriate host type (for example, **ESA Primary**) in **Host Type** and click **Install**.



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.
17. Complete licensing requirements for installed services.  
See the *NetWitness Platform 11.2 Licensing Management Guide* for more information. Go to the [Master Table of Contents](#) to find all NetWitness Platform Logs & Network 11.x documents.



## Update or Install Legacy Windows Collection

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Refer to the *RSA NetWitness Legacy Windows Collection Guide*. Go to the [Master Table of Contents](#) to find all NetWitness Platform Logs & Network 11.x documents.

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



## Post Installation Tasks

---

This topic contains the tasks you complete after you install 11.2.

- General
- RSA NetWitness® Endpoint Insights
- FIPS Enablement
- RSA NetWitness® UEBA

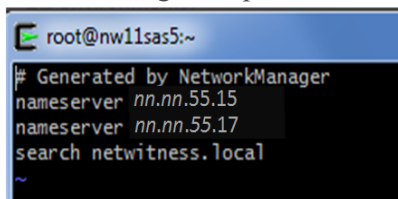
### General

#### (Optional) Task 1 - Re-Configure DNS Servers Post 11.2

On the NetWitness Server, complete the following steps to re-configure the DNS servers in NetWitness Platform 11.2.

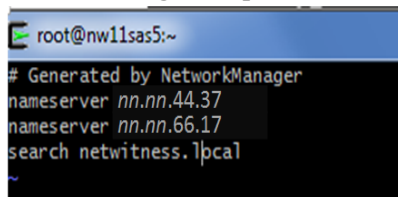
1. Login to the server host with your `root` credentials.
2. Edit the `/etc/netwitness/platform/resolv.dnsmasq` file:
  - a. Replace the IP address corresponding to `nameserver`.  
If you need to replace both DNS servers , replace the IP entries for both the hosts with valid addresses.

The following example shows both DNS entries.



```
root@nw11sas5:~  
# Generated by NetworkManager  
nameserver nn.nn.55.15  
nameserver nn.nn.55.17  
search netwitness.local
```

The following example shows the new DNS values.



```
root@nw11sas5:~  
# Generated by NetworkManager  
nameserver nn.nn.44.37  
nameserver nn.nn.66.17  
search netwitness.local
```

- b. Save the `/etc/netwitness/platform/resolv.dnsmasq` file.
- c. Restart the internal DNS by running the following command:  
`systemctl restart dnsmasq`

## RSA NetWitness Endpoint Insights

### (Optional) Task 2 - Install Endpoint Hybrid or Endpoint Log Hybrid

You must install one of the following services to install NetWitness Platform Endpoint Insights in your deployment:



- Endpoint Hybrid
- Endpoint Log Hybrid

**Caution:** You can only install one instance of the above services in your deployment.

**Note:** You must install the Endpoint Hybrid or Endpoint Log Hybrid on the S5 or Dell R730 appliance.

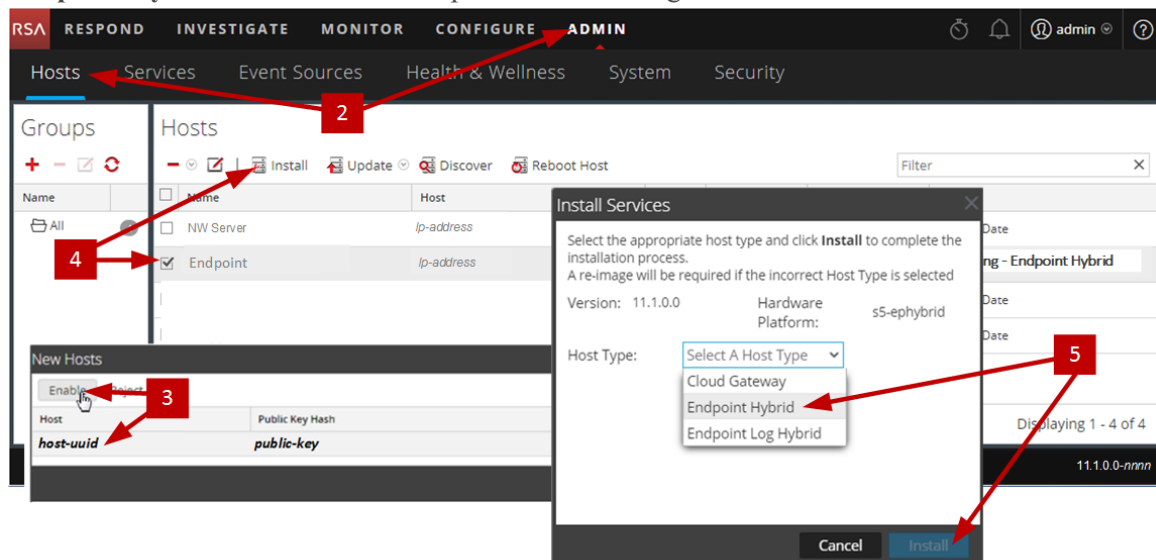
1. Complete steps 1 - 14 for Physical Host or steps 1 - 15 for Virtual Hosts under "Task 2 - Install 11.2 on Other Component Hosts" in "Installation Tasks" of the *NetWitness Platform Physical Host Installation Guide for Version 11.2*. Go to the [Master Table of Contents](#) to find all NetWitness Platform Logs & Network 11.x documents.
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.

3. 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.
4. Select that host in the **Hosts** view (for example, **Endpoint**) and click  **Install** .  
The Install Services dialog is displayed.

5. Select the appropriate service, either **Endpoint Hybrid** or **Endpoint Log Hybrid**, and click **Install**.

**Endpoint Hybrid** is used as an example in the following screen shot.



6. Make sure that all Endpoint Hybrid or Endpoint Log Hybrid services are running.
7. Configure Endpoint Meta forwarding.  
See *Endpoint Insights Configuration Guide* for instructions on how to configure Endpoint Meta forwarding. Go to the [Master Table of Contents](#) to find all NetWitness Platform Logs & Network 11.x documents.
8. Install the Endpoint Insights Agent.  
See *Endpoint Insights Agent Installation Guide* for detailed instructions on how to install the agent. Go to the [Master Table of Contents](#) to find all NetWitness Platform Logs & Network 11.x documents.

## FIPS Enablement

### (Optional) Task 3 - Enable FIPS Mode

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. For information about how to enable FIPS for these services, see the "Activate or Deactivate FIPS" topic in the *RSA NetWitness Platform System Maintenance Guide*. Go to the [Master Table of Contents](#) to find all NetWitness Platform Logs & Network 11.x documents.

## RSA NetWitness® UEBA

### (Optional) Task 4 - Install NetWitness UEBA

To set up NetWitness UEBA in NetWitness Platform 11.2, you must install and configure the NetWitness UEBA service.

**Note:** The `ueba-server-config` script referred to in these instructions is in the `/opt/rsa/saTools/` directory.



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

1. Complete steps 1 - 14 for Physical Host or steps 1 - 15 for Virtual Hosts under "Task 2 - Install 11.2 on Other Component Hosts" in "Installation Tasks" of the *NetWitness Platform Physical Host Installation Guide for Version 11.2*. Go to the [Master Table of Contents](#) to find all NetWitness Platform Logs & Network 11.x documents.

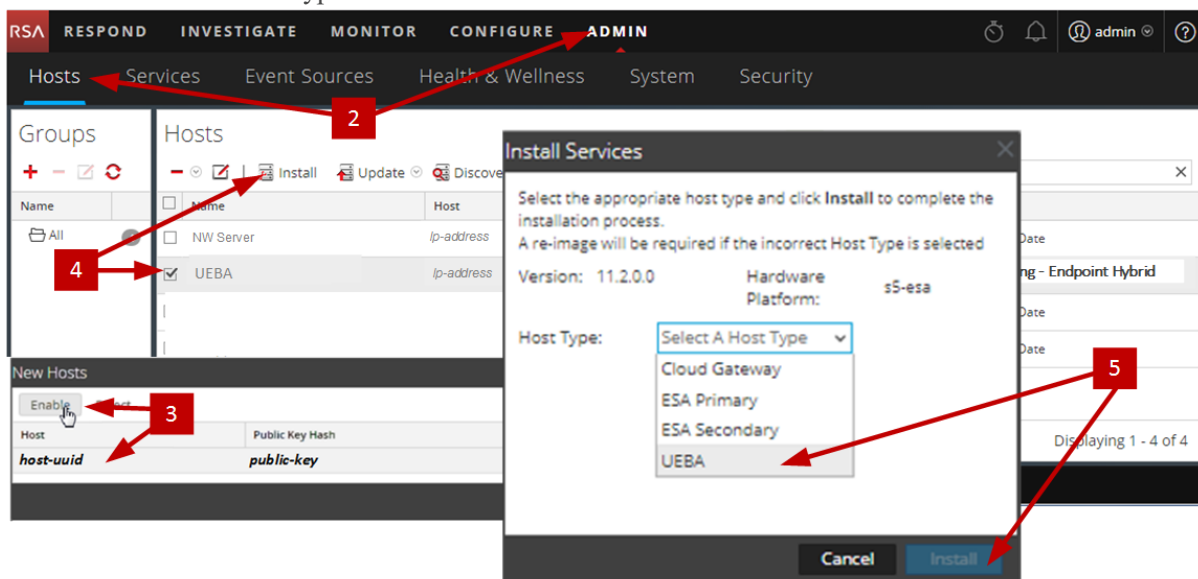
**Note:** The Kibana and Airflow webserver User Interface password is the same as the deploy admin password. Make sure that you record this password and store it in a safe location.

2. 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.

3. 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.
4. Select that host in the **Hosts** view (for example, **UEBA**) and click  **Install** .  
The Install Services dialog is displayed.

5. Select the **UEBA** Host Type and click **Install**.



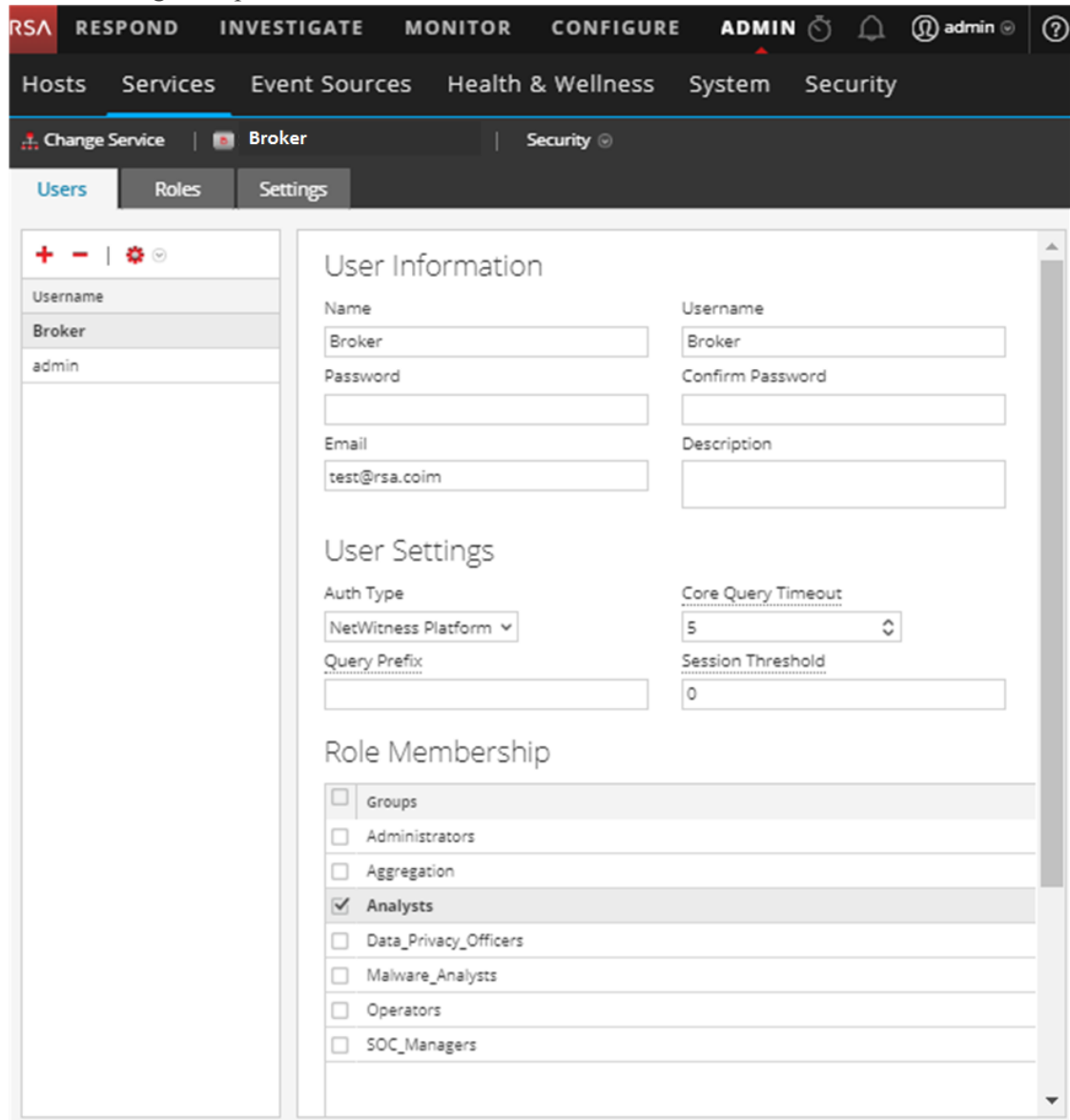
6. Make sure that the UEBA service is running.
7. Complete licensing requirements for NetWitness UEBA.  
See the *NetWitness Platform 11.2 Licensing Management Guide* for more information. Go to the [Master Table of Contents](#) to find all NetWitness Platform Logs & Network 11.x documents.
8. Configure 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.

- Determine the earliest date in the NWDB of the data schema you plan to choose (AUTHENTICATION, FILE, ACTIVE\_DIRECTORY, 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. 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.
- Create a user account for the data source (Broker or Concentrator) to authenticate to the data source.
  - Log into NetWitness Platform.
  - Go to **Admin > Services**.
  - Locate the data source service (Broker or Concentrator).

Select that service, and select  (Actions) > **View** > **Security**.

- iv. Create a new user and assign the “UEBA\_Analysts” role to that user.  
The following example shows a user account created for a Broker.



The screenshot shows the NetWitness UEBA Admin console interface. The top navigation bar includes tabs for RESPOND, INVESTIGATE, MONITOR, CONFIGURE, and ADMIN. The 'ADMIN' tab is selected, and the 'Security' sub-tab is active. The main content area is titled 'Users' and shows a list of users on the left and a detailed view on the right. The user 'Broker' is selected, and the 'Security' tab is active. The 'User Information' section shows fields for Name (Broker), Username (Broker), Password, Confirm Password, Email (test@rsa.coim), and Description. The 'User Settings' section shows fields for Auth Type (NetWitness Platform), Core Query Timeout (5), Query Prefix, and Session Threshold (0). The 'Role Membership' section shows a list of roles with checkboxes, where 'Analysts' is checked.

- c. SSH to the NetWitness UEBA server host.

## d. Submit the following commands.

```
./ueba-server-config.sh -u <user> -p <password> -h <host> -o <type> -t
<startTime> -s <schemas> -v
```

Where:

Argument	Variable	Description
-u	<user>	User name of the credentials for the Broker or Concentrator instance that you are using as a data source.
-p	<password>	Password of the credentials for the Broker or Concentrator instance that you are using as a data source.
-h	<host>	IP address of the Broker or Concentrator used as the data source.
-o	<type>	Data source host type (broker or concentrator).
-t	<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).
-s	<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').
-v		verbose mode.

9. Complete NetWitness UEBA configuration according to the needs of your organization. See the *RSA NetWitness UEBA User Guide* for more information. Go to the [Master Table of Contents](#) to find all NetWitness Platform Logs & Network 11.x documents.

## 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](#)
- [Log Collector Service \(nwlogcollector\)](#)
- [Orchestration](#)
- [NW Server](#)
- [Reporting Engine](#)
- [NetWitness UEBA](#)



## Command Line Interface (CLI)

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

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

<b>Error Message</b>	You receive a message in the User Interface to reboot the host after you update and reboot the host offline. 
<b>Cause</b>	You cannot use CLI to reboot the host. You must use the User Interface.
<b>Solution</b>	Reboot the host in the Host View in the User Interface.

## Backup (`nw-backup` script)

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

<b>Error</b>	<p>Backup errors caused by the <code>immutable</code> attribute setting. Here is an example of an error that can be displayed:</p> <pre>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</pre>
<b>Cause</b>	If you have any files that have the <code>immutable</code> 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.
<b>Solution</b>	<p>On the host that contains the files with the <code>immutable</code> flag set, run the following command to remove the <code>immutable</code> setting from the files:</p> <pre>chattr -i &lt;filename&gt;</pre>

<b>Error</b>	<p>Error creating Network Configuration Information file due to duplicate or bad entries in primary network configuration file:</p> <pre>/etc/sysconfig/network-scripts/ifcfg-em1</pre> <p>Verify contents of <code>/var/netwitness/logdecoder/packetdb/nw-backup/2018-02-23/S5-BROK-36-10.25.53.36-network.info.txt</code></p>
	<p>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.</p>
<b>Cause</b>	<p>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 <code>&lt;hostname&gt;-&lt;hostip&gt;-network.info.txt</code>, and should contain the following entries:</p>
	<p>DEVICE=&lt;devicename&gt; ; # from the host's primary ethernet interface config file</p> <p>BOOTPROTO=&lt;bootprotocol&gt; ; # from the host's primary ethernet interface config file</p> <p>IPADDR=&lt;value&gt; ; # from the host's primary ethernet interface config file</p> <p>NETMASK=&lt;value&gt; ; # from the host's primary ethernet interface config file</p> <p>GATEWAY=&lt;value&gt; ; # from the host's primary ethernet interface config file</p> <p>search &lt;value&gt; ; # from the host's <code>/etc/resolv.conf</code> file</p> <p>nameserver &lt;value&gt; ; # from the host's <code>/etc/resolv.conf</code> file</p>
<b>Solution</b>	

## Event Stream Analysis

<b>Problem</b>	ESA service crashes after you upgrade to 11.2.0.0 from a FIPS enabled setup.
<b>Cause</b>	ESA service is pointing to an invalid keystore.
<b>Solution</b>	<ol style="list-style-type: none"><li>1. SSH to the ESA Primary host and log in.</li><li>2. In the <code>/opt/rsa/esa/conf/wrapper.conf</code> file, replace the following line: <code>wrapper.java.additional.5=-Djavax.net.ssl.keyStore=/opt/rsa/esa/../carlos/keystore</code> with: <code>wrapper.java.additional.5=-Djavax.net.ssl.keyStore=/opt/rsa/carlos/keystore</code></li><li>3. Submit the following command to restart ESA. <code>systemctl restart rsa-nw-esa-server</code></li></ol> <div><b>Note:</b> If you have multiple ESA hosts and you encounter that same problem, repeat steps 1 through 3 inclusive on each secondary ESA host.</div>

## Log Collector Service (`nwlogcollector`)

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

<b>Error Message</b>	<code>&lt;timestamp&gt;.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.</code>
<b>Cause</b>	The Log Collector Lockbox failed to open after the update.
<b>Solution</b>	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> . Go to the <a href="#">Master Table of Contents</a> to find all NetWitness Platform Logs & Network 11.x documents.

<b>Error Message</b>	<code>&lt;timestamp&gt; NwLogCollector_PostInstall: Lockbox Status : Not Found</code>
<b>Cause</b>	The Log Collector Lockbox is not configured after the update.
<b>Solution</b>	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 <i>Log Collection Configuration Guide</i> . Go to the <a href="#">Master Table of Contents</a> to find all NetWitness Platform Logs & Network 11.x documents.

<b>Error Message</b>	<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.
<b>Cause</b>	You need to reset the stable value threshold field for the Log Collector Lockbox.
<b>Solution</b>	Log in to NetWitness Platform and reset the stable system value password for the Lockbox as described in "Reset the Stable System Value" topic under "Configure Lockbox Security Settings" topic in the <i>Log Collection Configuration Guide</i> . Go to the <a href="#">Master Table of Contents</a> to find all NetWitness Platform Logs & Network 11.x documents.

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

## NW Server

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

<b>Problem</b>	After upgrade, you notice that Audit logs are not getting forwarded to the configured Global Audit Setup;
	or, The following message seen in the <code>sa.log</code> . <code>Syslog Configuration migration failed. Restart jetty service to fix this issue</code>
<b>Cause</b>	NW Server Global Audit setup migration failed to migrate from 10.6.6.x to 11.2.0.0.
<b>Solution</b>	<ol style="list-style-type: none"><li>1. SSH to the NW Server.</li><li>2. Submit the following command. <code>orchestration-cli-client --update-admin-node</code></li></ol>

## Orchestration

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

<b>Problem</b>	<ol style="list-style-type: none"><li>1. Tried to upgrade a non-NW Server host and it failed.</li><li>2. Retried the upgrade for this host and it failed again.</li></ol>
	You will see the following message in the <code>orchestration-server.log</code> . <code>''file' _virtual_ returned False: cannot import name HASHES''</code>
<b>Cause</b>	Salt minion may have been upgraded and never restarted on failed non-NW Server host
<b>Solution</b>	<ol style="list-style-type: none"><li>1. SSH to the non-NW Server host that failed to upgrade.</li><li>2. Submit the following commands. <code>systemctl unmask salt-minion</code> <code>systemctl restart salt-minion</code></li><li>3. Retry the upgrade of the non-NW Server host.</li></ol>

## Reporting Engine Service

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

<b>Error Message</b>	<code>&lt;timestamp&gt; : Available free space in /var/netwitness/re-server/rsa/soc/reporting-engine [ &gt;&lt;existing-GB &gt; ] is less than the required space [ &lt;required-GB&gt; ]</code>
<b>Cause</b>	Update of the Reporting Engine failed because you do not have enough disk space.
<b>Solution</b>	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 Configuration Guide</i> for instructions on how to free up disk space. Go to the <a href="#">Master Table of Contents</a> to find all NetWitness Platform Logs & Network 11.x documents.



## NetWitness UEBA

<b>Problem</b>	The User Interface is not accessible.
<b>Cause</b>	You have more than one NetWitness UEBA service existing in your NetWitness deployment and you can only have NetWitness UEBA service in your deployment.
<b>Solution</b>	<p>Complete the following steps to remove the extra NetWitness UEBA service.</p> <ol style="list-style-type: none"> <li>1. SSH to NW Server and run the following commands to query the list of installed NetWitness UEBA services. <pre># orchestration-cli-client --list-services grep presidio-airflow ... Service: ID=7e682892-b913-4dee-ac84-ca2438e522bf, 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> </li> <li>2. From the list of services, determine which instance of the presidio-airflow service should be removed (by looking at the host addresses).</li> <li>3. Run the following command to remove the extra service from Orchestration (use the matching service ID from the list of services): <pre># orchestration-cli-client --remove-service --id &lt;ID-for-presidio-airflow-form-previous-output&gt;</pre> </li> <li>4. Run the following command to update node 0 to restore NGINX: <pre># orchestration-cli-client --update-admin-node</pre> </li> <li>5. Log in to NetWitness Platform, go to <b>ADMIN &gt; Hosts</b>, and remove the extra NetWitness UEBA host.</li> </ol>

## 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.
2. Create the ziprepo directory to host the NW repository (netwitness-11.2.0.0.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 11.2.0.0 directory under /var/netwitness/ziprepo.  

```
mkdir /var/netwitness/ziprepo/11.2.0.0
```
4. Create the OS and RSA directories under /var/netwitness/ziprepo/11.2.0.0.  

```
mkdir /var/netwitness/ziprepo/11.2.0.0/OS
```

```
mkdir /var/netwitness/ziprepo/11.2.0.0/RSA
```
5. Unzip the netwitness-11.2.0.0.zip file into the /var/netwitness/ziprepo/11.2.0.0 directory.  

```
unzip netwitness-11.2.0.0.zip -d /var/netwitness/ziprepo/11.2.0.0
```

 Unzipping netwitness-11.2.0.0.zip results in two zip files (OS-11.2.0.0.zip and RSA-11.2.0.0.zip) and some other files.
6. Unzip the:

- a. OS-11.2.0.0.zip into the /var/netwitness/ziprepo/11.2.0.0/OS directory.

```
unzip /var/netwitness/ziprepo/11.2.0.0/OS-11.2.0.0.zip -d
```

```
/var/netwitness/ziprepo/11.2.0.0/OS
```

 <b>Parent Directory</b>			-
	<a href="#">GeoIP-1.5.0-11.el7.x86_64.rpm</a>	20-Nov-2016 12:49	1.1M
	<a href="#">HostAgent-Linux-64-x86-en_US-1.2.25.1.0163-1.x86_64.rpm</a>	03-Oct-2017 10:07	4.6M
	<a href="#">Lib_Uutils-1.00-09.noarch.rpm</a>	03-Oct-2017 10:05	1.5M
	<a href="#">OpenIPMI-libs-2.0.19-15.el7.x86_64.rpm</a>	20-Nov-2016 14:43	502K
	<a href="#">OpenIPMI-modalias-2.0.19-15.el7.x86_64.rpm</a>	20-Nov-2016 14:43	15K
	<a href="#">PyYAML-3.11-1.el7.x86_64.rpm</a>	19-Dec-2017 12:30	160K
	<a href="#">SDL-1.2.15-14.el7.x86_64.rpm</a>	25-Nov-2015 10:39	204K
	<a href="#">acl-2.2.51-12.el7.x86_64.rpm</a>	03-Oct-2017 10:04	81K
	<a href="#">adobe-source-sans-pro-fonts-2.020-1.el7.noarch.rpm</a>	13-Feb-2018 05:10	706K
	<a href="#">alsa-lib-1.1.3-3.el7.x86_64.rpm</a>	10-Aug-2017 10:52	421K
	<a href="#">at-3.1.13-22.el7_4.2.x86_64.rpm</a>	25-Jan-2018 17:56	51K
	<a href="#">atk-2.22.0-3.el7.x86_64.rpm</a>	10-Aug-2017 10:53	258K
	<a href="#">attr-2.4.46-12.el7.x86_64.rpm</a>	03-Oct-2017 10:04	66K

- b. RSA-11.2.0.0.zip into the /var/netwitness/ziprepo/11.2.0.0/RSA directory.

```
unzip /var/netwitness/ziprepo/11.2.0.0/RSA-11.2.0.0.zip -d
```

```
/var/netwitness/ziprepo/11.2.0.0/RSA
```

	<a href="#">Parent Directory</a>	-
	<a href="#">MegaCli-8.02.21-1.noarch.rpm</a>	03-Oct-2017 10:07 1.2M
	<a href="#">OpenIPMI-2.0.19-15.el7.x86_64.rpm</a>	03-Oct-2017 10:07 173K
	<a href="#">bind-utils-9.9.4-51.el7_4.2.x86_64.rpm</a>	22-Jan-2018 09:03 203K
	<a href="#">bzip2-1.0.6-13.el7.x86_64.rpm</a>	03-Oct-2017 10:07 52K
	<a href="#">cifs-utils-6.2-10.el7.x86_64.rpm</a>	10-Aug-2017 11:14 85K
	<a href="#">device-mapper-multipath-0.4.9-111.el7_4.2.x86_64.rpm</a>	25-Jan-2018 17:56 134K
	<a href="#">dnsmasq-2.76-2.el7_4.2.x86_64.rpm</a>	02-Oct-2017 19:36 277K
	<a href="#">elasticsearch-5.6.9.rpm</a>	17-Apr-2018 09:37 32M
	<a href="#">erlang-19.3-1.el7.centos.x86_64.rpm</a>	03-Oct-2017 10:07 17K
	<a href="#">freserver-4.6.0-2.el7.x86_64.rpm</a>	27-Feb-2018 09:11 1.3M
	<a href="#">httpd-2.1.0-1.el7.x86_64.rpm</a>	14-Feb-2018 19:23 102K
	<a href="#">i40e-zc-2.3.6.12-1dkms.noarch.rpm</a>	04-May-2018 11:08 399K
	<a href="#">ipmitool-1.8.18-5.el7.x86_64.rpm</a>	10-Aug-2017 12:41 441K
	<a href="#">iptables-services-1.4.21-18.3.el7_4.x86_64.rpm</a>	08-Mar-2018 09:20 51K
	<a href="#">ixgbe-zc-5.0.4.12-dkms.noarch.rpm</a>	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 11.2 Setup program (nwsetup-tui) prompt.

## Revision History

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Revision	Date	Description	Author
1.0	15-Aug-18	Release to Operations	IDD