RSA NetWitness

Version 11.7.0.0

Endpoint Agent Installation Guide



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Introduction to Endpoint Agent Installation

Note: The information in this guide applies to Version 11.1 and later.

Hosts can be laptops, workstations, servers, physical or virtual, where a supported operating system is installed. An Endpoint Agent can be deployed on a host with either a Windows, Mac, or Linux operating system. The installation process involves:

1. (Optional) Configuring the Relay Server

Note: You must set up the default relay server before generating the Agent packager. Whenever the Relay server configuration is modified, agent policy is updated automatically. For more information on configuring the relay server, see *Endpoint Configuration Guide*.

- 2. Generating an agent packager
- 3. Generating the agent installer

You can run the agent installer specific to your operating system to deploy agents on the hosts. The agents collect endpoint data and tracking events from these hosts. It monitors key behaviors related to process, file, registry, console, and network, and forwards them as events to the Endpoint Server over HTTPs.

Note: The Endpoint agent can operate either in Insights or Advanced mode depending on the policy configuration. For more information, see the *NetWitness Endpoint Configuration Guide*.

Supported Operating Systems

Windows	Linux (The agent software runs on	macOS
	either i386 or x86_64 architecture)	
Windows 10 (32 and 64-bit) (up to version 21H2)	CentOS 6.x, 7.x, and 8.x	macOS Big Sur (11)
Windows 8.1 (32 and 64-bit)	Red Hat Enterprise Linux 6.x, 7.x, and 8.x	macOS Catalina (10.15)
Windows 8 (32 and 64-bit)	SUSE Linux Enterprise Server 12 SP3, 12 SP4, 12 SP5 and 15 SP1	macOS Mojave (10.14)
Windows 7 (32 and 64-bit)	Ubuntu 16.04 LTS, 18.04 LTS, and 20.04 LTS	macOS High Sierra (10.13)
Windows Server 2019 Windows Server 2019 Core		macOS Sierra (10.12)
Windows Server 2016		OS X El Capitan (10.11)
Windows Server 2012 R2		OS X Yosemite (10.10)
Windows Server 2012		OS X Mavericks (10.9)
Windows Server 2008 R2 (32 and 64-bit)		

Hardware Requirements

The following are the minimum hardware requirements to run an agent in a host (laptops, workstations, servers, physical or virtual):

- 256 MB RAM
- 300 MB disk space
- Single-core CPU

Installation Flowchart

The following flowchart illustrates the Endpoint agent installation process:



Prerequisites

- Install RSA NetWitness. For more information, see the *Physical Host Installation Guide* or *Virtual Host Installation Guide*.
- Install NetWitness Endpoint Log Hybrid. For more information, see the *Physical Host Installation Guide* or *Virtual Host Installation Guide*.
- Deploy ESA Rules from the Endpoint Rule Bundle. For more information, see *ESA Configuration Guide*.
- Configure Endpoint Metadata forwarding. For more information, see *NetWitness Endpoint Configuration Guide*.
- Review the default policies and create groups to manage your agents. For more information, see *NetWitness Endpoint Configuration Guide*.
- Configure your RSA Live account and make sure the File Reputation service is enabled. For more information, see *Live Services Management Guide*.
- To migrate an existing NetWitness Endpoint 4.4.0.x to NetWitness Platform 11.5 and later, see https://community.rsa.com/t5/rsa-netwitness-platform/post-migration-steps-for-importing-configurations-from-rsa/ta-p/129 to import the NetWitnes Endpoint 4.4.0.x configurations (file status, certificate status and blocked hashes).

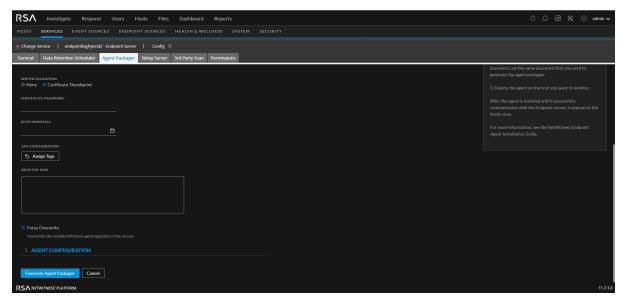
Note: If you are upgrading, make sure that you deploy the latest Endpoint application rules from RSA Live. For more information, see *Live Services Management Guide*.

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Generate an Endpoint Agent Packager

To generate an agent packager to collect endpoint data from hosts:

- 1. Log in to NetWitness.
 - Type https://<NW-Server-IP-Address>/login in your browser to get to the NetWitness Login screen.
- 2. Click (Admin) > Services.
- 3. Select the **Endpoint Server** service and click > View > Config > Agent Packager tab. The Agent Packager tab is displayed.



4. Enter the values in the following fields:

Field	Description
Endpoint Server	Displays all the available Endpoint servers in the deployed.
Endpoint Server Forwarder (Optional)	The optional Endpoint Server Forwarder allows you to enter an alternative Fully Qualified Domain Name (FQDN) or IP address on which the sever can be reached in the case that agents need to go through a NAT or similar in order to reach the Endpoint Server. If specified forwarder is not available, agent will eventually fall back to the packaged address.
HTTPS Port	Port number. For example, 443.
Server	Determines how the agent validates the Endpoint Server certificate:
Validation	• None – The agent will not validate the server certificate.
	• Certificate Thumbprint – default selection. The agent identifies the server by validating the thumbprint of the Root CA of the server certificate.
Certificate Password	Password used to download the packager. The same password is used while generating the agent installer. For example, netwitness.
Auto Uninstall	Date and time the agent automatically uninstalls. You can leave it blank if not required.
Tag Configuration	When you click Assign Tags under Tag Configuration, you can do any of the following:
	• Create new tags and assign them to the hosts.
	 Select already existing tags and assign them to the hosts.
	For more information, see Investigate Hosts.
	Note: Tag Configuration feature is supported from version 11.7.1 or later.
Force Overwrite	Overwrites the installed Windows agent regardless of the version. If this option is not selected, the same installer can be run multiple times on a system, but installs the agent only once.
	If you enable this option, make sure that you provide the same service name and driver service name as the previously installed agent, while creating a new agent.
	Note: If you want to force overwrite with MSI, run the following command: msiexec /fvam <msifilename.msi></msifilename.msi>
	After you move an agent from one deployment to another, using Force Overwrite to change the agent incurs an 8-hour delay in communication between the agent and its Endpoint Server on the new deployment. To eliminate the delay, uninstall the agent from the old deployment, and reinstall the agent on the new deployment.

Field	Description
	Agent Configuration
Note: The follo	wing Service and Driver fields are applicable only for Windows.
Service	
Service Name	Name of the agent service. For example, NWEAgent.
Display Name	Display name of the agent service. For example, RSA NWE Agent.
Description	Description of the agent service. For example, RSA NetWitness Endpoint.
Driver	
Driver Service Name	Name of the driver service. For example, NWEDriver.
Driver Display Name	Display name of the driver service. For example, RSA NWE Driver.
Driver Description	Description of the driver service. For example, RSA NetWitness Endpoint Driver.
Generate Agent	Generates an agent packager.

5. Click Generate Agent.

This downloads an agent packager (AgentPackager.zip) on the host where you are accessing the NetWitness user interface.

Generate Endpoint Agent Installers

To generate endpoint agent installers to deploy on hosts:

Note: Use a Windows machine to execute the agent packager file.

- 1. Unzip the AgentPackager.zip file. It includes the following:
 - agents folder Contains executables for Linux, Mac, and Windows.
 - **config** folder Contains configuration file and the certificates required to communicate between the Endpoint Server and the agent.
 - AgentPackager.exe file.
- 2. Run the **AgentPackager.exe** file as administrator by right-clicking the file and selecting **Run as** administrator.
- 3. Enter the same password used while generating the agent packager and press **Enter**. This creates the following installers in the root folder:
 - nwe-agent-package.exe (for Windows)
 - NWE000032.msi (for Windows 32-bit)
 - NWE000064.msi (for Windows 64-bit)
 - nwe-agent.pkg (for Mac)
 - nwe-agent.i686.rpm (for RPM based Linux 32-bit)
 - nwe-agent.x86 64.rpm (for RPM based Linux 64-bit)
 - nwe-agent.i686.deb (for Debian based Linux 32-bit)
 - nwe-agent.x86 64.deb (for Debian based Linux 64-bit)

Note: The MSI files should not be renamed.

Deploy and Verify Endpoint Agents

This section provides instruction on how to deploy and verify agents.

Note: By default, the agent is installed in the Insights mode. Depending on the policy assigned, the agent can operate in Insights or Advanced mode. Make sure you review the policy before deploying the agent. For more information, see *NetWitness Endpoint Configuration Guide*.

Deploying Agents (Windows)

To deploy the agent, run the **nwe-agent-package.exe** file on the hosts you want to monitor.

Verifying Windows Agents

After deploying the Windows agents, you can verify if a Windows agent is running by using any of the following methods:

• Using the NetWitness UI

The Hosts view contains the list of all hosts with an agent. You can look for the host name on which the agent is installed.

Note: Click **Hosts** or press F5 to refresh the list for latest data.

• Using Task Manager

Open Task Manager and look for service name that you configured while generating the agent packager on the host machine.

• Using Services.msc

Open Services.msc in run and look for the service name that you configured while generating the agent packager on the host machine.

Deploying Agent (Linux)

To deploy the agent on the hosts you want to monitor:

RPM based Linux

Run the **nwe-agent.i686.rpm** (for 32-bit) or **nwe-agent.x86_64.rpm** (for 64-bit) file. To run the command, open Terminal on the Linux machine and run the following command as root:

```
rpm -iv <installer file name>.rpm
```

For example, using the default installer file names, you can enter one of the following commands:

```
rpm -iv nwe-agent.i686.rpm (for i386 architecture)
rpm -iv nwe-agent.x86_64.rpm (for x86_64 architecture)
```

Note: To upgrade RPM based Linux agents, run rpm -Uvh nwe-agent.i686.rpm or rpm -Uvh nwe-agent.x86_64.rpm.

Debian based Linux

Run the **nwe-agent.i686.deb** (for 32-bit) or **nwe-agent.x86_64.deb** (for 64-bit) file. To run the command, open Terminal on the Linux machine and run the following command as root:

```
dpkg -i <installer file name>.deb
```

For example, using the default installer file names, you can enter one of the following commands:

```
dpkg -i nwe-agent.i686.deb (for i386 architecture)
```

```
dpkg -i nwe-agent.x86_64.deb (for x86_64 architecture)
```

(Enter the administrator password when prompted.)

Note: To upgrade Debian based Linux agents, run dpkg -i nwe-agent.i686.deb or dpkg -i nwe-agent.x86 64.deb.

Verifying Linux Agents

After deploying the Linux agents, you can verify if a Linux agent is running by using any of the following methods:

• Using the NetWitness UI

The Hosts view contains the list of all hosts with an agent.

Note: Click **Hosts** or press F5 to refresh the list for latest data.

Using Command Line

Run the following command to get the PID:

```
pgrep nwe-agent
```

• To check the NetWitness Endpoint version, run the following command:

```
cat /opt/rsa/nwe-agent/config/nwe-agent.config | grep version
```

Deploying Agent (Mac)

To deploy the agent, run the **nwe-agent.pkg** file on the hosts you want to monitor.

Verifying Mac Agents

After deploying the Mac agents, you can verify if a Mac agent is running by using any of the following methods:

• Using the NetWitness UI

The Hosts view contains the list of all hosts with an agent.

Note: Click **Hosts** or press F5 to refresh the list for the latest data.

• Using Activity Monitor

Open Activity Monitor (/Applications/Utilities/Activity Monitor.app) and look for NWEAgent.

• Using Command Line

Run the following command to get the PID

pgrep NWEAgent

• To check the NetWitness Endpoint version, run the command:

grep a /var/log/NWEAgent.log | grep NWEAgent | grep Version

Uninstall Agents

You can use one of the following methods to uninstall Endpoint agents. Select a method based on your current Endpoint agent version.

- Uninstalling Agent using UI (Supported from agent version 11.5.1 and later)
- Uninstalling Agent Manually

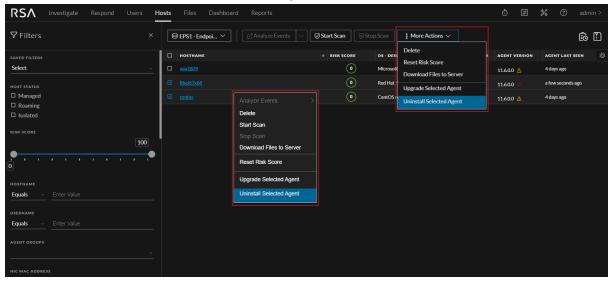
Uninstalling Agent using UI (Supported from agent version 11.5.1 and later)

Note: To uninstall an agent using UI, the agent must be a managed agent with version 11.5.1 or later.

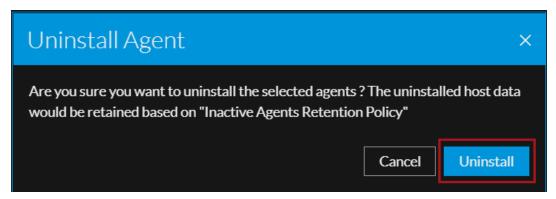
You can uninstall agent using UI by going to **Hosts** and performing one of the following options.

Uninstall one or more agents from Hosts view

- 1. Select one or more hosts from which you want to uninstall the agents.
- 2. Selected **More Actions > Uninstall Selected Agent** from the toolbar.



3. In the Uninstall Agent dialog, click Uninstall.

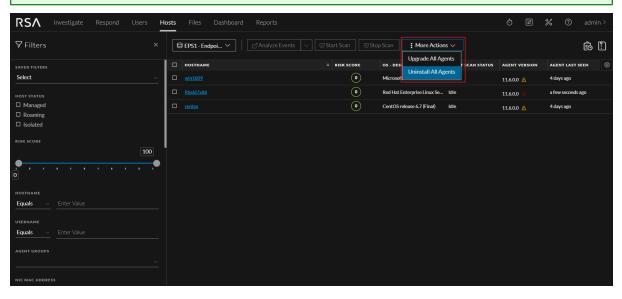


Uninstall all the agents from Hosts view

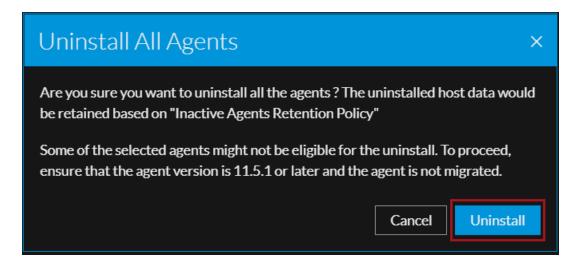
Note: Uninstall All Agents via UI is also supported for Broker service.

1. Select **More Actions > Uninstall All Agents** from the toolbar.

Note: For the uninstall all agents option, you do not need to select the hosts. **Upgrade All Agents** / **Uninstall All Agents** are the default options on the More Actions drop-down. If you select one or more hosts, the More Actions drop-down shows Upgrade Selected Agent / Uninstall Selected Agent as the available options.



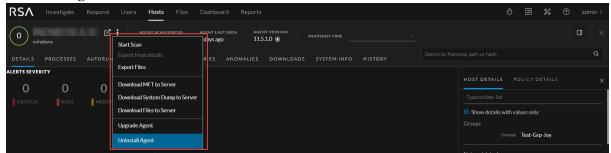
2. In the Uninstall All Agents dialog, click Uninstall.



Note: Uninstall All Agents process will require more time to complete depending upon the number of agents selected based on the filters applied.

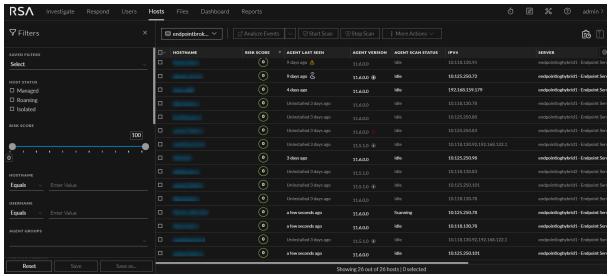
Uninstall an agent from Host details view

1. Select the hostname to open the host details, click (More Actions) beside the hostname, and select Uninstall Agent.



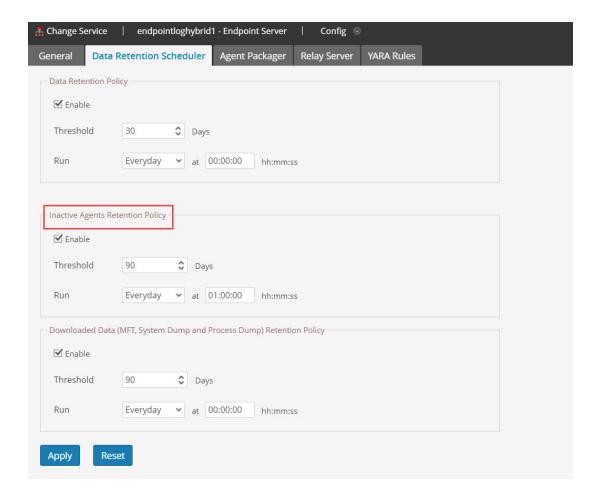
2. In the Uninstall Agent dialog, click Uninstall.

3. After the agent is uninstalled, **Agent Last Seen** is updated and the host is grayed out in the **Hosts** view.



Note: Once an agent is uninstalled, only **Delete** and **Analyze Events** actions can be performed on it.

IMPORTANT: If you are uninstalling agent using UI, the uninstalled host data would be retained based on **Inactive Agents Retention Policy.**



Uninstalling Agent Manually

Uninstalling Windows Agent

Run the following command as administrator:

msiexec /x{63AC4523-5F19-42F0-BC43-97C8B5373589}

Uninstalling Linux Agent

For RPM based Linux, run the following command as root:

rpm -ev nwe-agent

For Debian based Linux, run the following command as root:

dpkg -r nwe-agent

Uninstalling Mac Agent

Run the following commands:

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- 1. sudo launchctl unload /Library/LaunchDaemons/com.rsa.nwe.agent.daemon.plist
- $3. \ \mathrm{sudo} \ \mathrm{rm} \ \mathrm{-Rf} \ \mathrm{'/Library/Application} \ \mathrm{Support/NWE'}$
- 4. sudo rm -Rf /Library/LaunchDaemons/com.rsa.nwe.agent.daemon.plist
- 5. sudo pkgutil --forget com.rsa.pkg.nwe

Upgrade Agents

You can use one of the following methods to upgrade Endpoint agents. Select a method based on your current Endpoint agent version. If you have upgraded the endpoint server recently, you must restart it to see **Upgrade Selected Agent** and **Upgrade All Agents** options on the UI.

- Upgrading 11.5.1 or Later Agents Versions Using UI
- Upgrading 11.3.x or Later Agents Versions

Upgrading 11.5.1 or Later Agents Versions Using UI

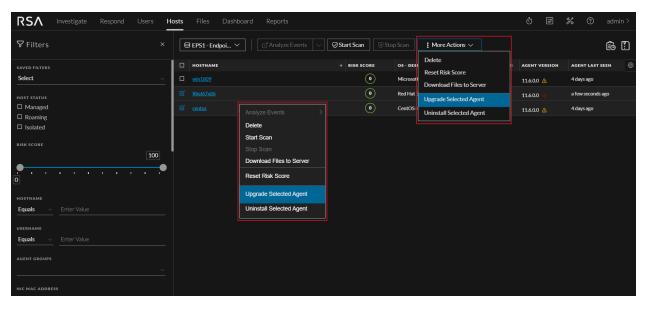
Note: To upgrade agent from UI, ensure the service user account has both endpoint-server.agentupdate.manage and endpoint-server.ca.manage permissions. For more information on how to assign roles and permissions, see "Add a Role and Assign Permissions" in the *System Security and User Management Guide*.

From 11.6, you can upgrade the Endpoint agents using the UI. Agent version must be 11.5.1 or later to upgrade using the UI.

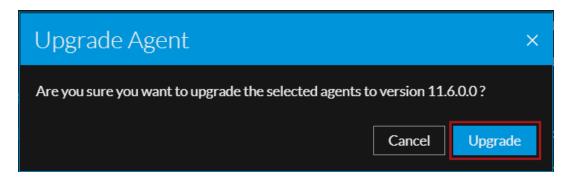
You can upgrade agents using UI by going to **Hosts** and performing one of the following options.

Upgrade one or more agents from Hosts view

1. Select one or more hosts and select More Actions > Upgrade Selected Agent



2. In the **Upgrade Agent** dialog, click **Upgrade**.



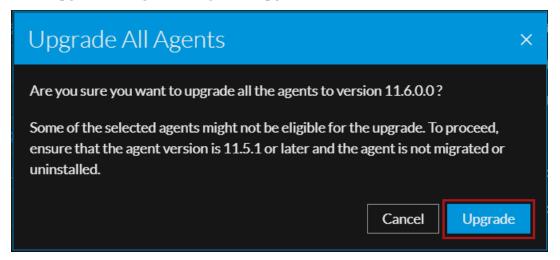
Upgrade all agents from Hosts view

1. Select **More Actions > Upgrade All Agents** from the toolbar, to perform bulk agent upgrade.

Note: For the upgrade all agents option, you do not need to select the hosts. **Upgrade All Agents** / **Uninstall All Agents** are the default options on the More Actions drop-down. When you select one or more hosts, the More Actions drop-down shows Upgrade Selected Agent / Uninstall Selected Agent as the available options.



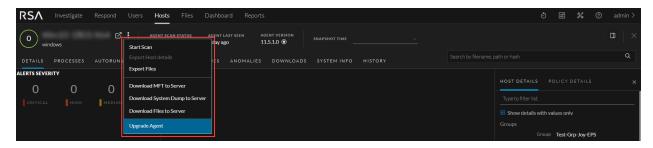
2. In the **Upgrade All Agents** dialog, click **Upgrade**.



Note: Upgrade All Agents process will require more time to complete, depending upon the number of agents selected based on the filters applied.

Upgrade an agent from Hosts details page

Select the hostname to open the host details, click (More Actions) beside the hostname, and select Upgrade Agent.



1. In the Upgrade Agent dialog, click Upgrade.

Note: To upgrade an agent using UI, the agent must be a managed agent with version 11.5.1 or later.

The following upgrade status icons are displayed in the Agent Version column.

Icons	Upgrade Status	Description
①	Upgrade Available	An agent upgrade is available.
\triangle	Agent Upgrade Pending	The agent has not yet received the upgrade command.
\bigcirc	In Progress	The agent is being upgraded.
(Failed	Agent upgrade failed. View details in the agent history page.
No Icon	No Upgrade Available	No upgrade available for the agent. Refer to agent eligibility.

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You can view the list of commands issued to the agents (by the server or actions performed by any analyst) in the Host view and Host details. By default, commands are sorted based on the command time.

To view the commands:

- 1. Go to **Hosts**.
- 2. Do any one of the following,
 - To view all commands, click You can also filter commands. The Agent History view is displayed.
 - To view commands specific to a particular host:
 - ° Click the host for which you want to view the commands.
 - In the Host details view, click **History** tab. You can also filter commands.
 The History view is displayed.

For more information on Agent History, see the "Investigating Hosts" topic in the *NetWitness Endpoint User Guide*.

Upgrading 11.3.x or Later Agents Versions

You can upgrade the 11.3.x and later versions of Endpoint agent to 11.6 or later.

Note: In a multi-server Endpoint deployment, during an agent upgrade, make sure that the correct Endpoint server is mentioned in the respective agent policy. In case the agent uses the default policy, ensure to use the agent packager downloaded from the respective Endpoint server to which it is communicating. Using Agent packager from different Endpoint server for agent upgrade will result in migrating the agents to another Endpoint server.

Note: For a subsequent installation or upgrade, use the same service and driver service name.

To upgrade from 11.3.x and later, download the 11.6 agent packager, deploy and verify agents. For more information, see Generate an Endpoint Agent Packager and Deploy and Verify Endpoint Agents.

Upgrade from 4.4.0.9 and 4.4.1.x is supported only for version 11.3. For more information, see *NetWitness Endpoint 4.4.1.x to NetWitness Platform 11.3 Migration Guide*.

To upgrade an agent from 4.4.0.x to 11.6, uninstall the agent and perform a fresh installation.

Recommendations for Installing Agents in Virtual Desktop Infrastructure (VDI) Environment

Agent ID is generated based on various parameters, such as security identifier (SID) and SMBIOS Universal Unique Identifier (UUID). A SMBIOS UUID is a 128-bit number used to uniquely identify a host.

Note: While cloning the VDI image where an agent is already installed, the agent ID automatically changes for Windows and Mac agents if uuid.action = keep is not set in the .vmx file. For more information, see Configure a Virtual Machine to change the UUID.

For Linux agents, the agent ID does not change automatically on VDI clone.

When you clone a VDI image:

- If you do not change the agent ID for each VDI clone, make sure that the SMBIOS UUID remains the same.
- If you change the agent ID for each VDI clone, make sure that the SMBIOS UUID is also changed.

To avoid duplication of agent IDs, make sure that the SMBIOS UUID changes on the following VDIs:

- Citrix XenServer
- VMWare Workstation
- VMware vCloud Director
 For more information, see VMware Knowledge Base.
- vCenter hosted ESXi Server

To get the SMBIOS UUID on a Windows virtual host, execute the following command:

wmic csproduct get UUID

Troubleshooting

This section provides information about possible issues when using the RSA NetWitness Endpoint.

Packager Issue

Issue	Failed to generate the agent installers.
Explanation	Some encryption software may create additional files that fails to generate the agent installers.
Resolution	Copy the packager to a machine that does not have antivirus or encryption software and then generate the agent installers.

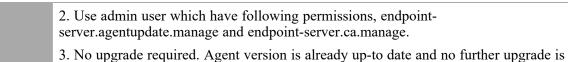
Issue	Failed to generate agent installers for MAC.
Explanation	Agent packager AgentPackager.exe fails to generate MAC agent installer (nweagent.pkg) with the error message "Failed to generate table of content for package" or "Failed to create config file C:\AgentPackager (4)\agents\mac\Plugins\NWEInstallerPlugin.bundle\Contents\Resources\config.cfg".
Resolution	Run the AgentPackager.exe as administrator by right-clicking the file and selecting Run as Administrator.

Issue	Agent packager generates temporary agent installers for MAC.
Explanation	Agent packager AgentPackager.exe generates MAC agent installer as nweagent_tmp.pkg instead of nwe-agent.pkg.
Resolution	Run the AgentPackager.exe as administrator by right-clicking the file and selecting Run as Administrator. The MAC agent package nwe-agent.pkg will be generated as expected

Agent Upgrade via UI Issues

Issue	Agent upgrade not available.
	1. The agent version might not be supported for upgrade from UI. Agent version has to be 11.5.1 or later for upgrade via UI.
Explanation	2. Logged in user may not have appropriate permission for upgrade from UI.
	3. Agent version is up-to date.
Resolution	1. Use the manual upgrade method for upgrading the version.

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Issue	Agent upgrade is in Pending state.
Explanation	The hosts for which the command is shown in pending could be in offline or inactive state.
Resolution	Ensure Hosts/agents are communicating with Endpoint server directly or via Relay server for it to receive the upgrade command from server. Verify "Agent Last seen" time in Host listing page.

Issue	Agent upgrade failed.
	1. Agent upgrade fail with any of the following reasons:
	Service Name or Driver name mismatch
Explanation	Checksum mismatch
	Installer size mismatch
	2. Agent installer could not be created.
	1. Retry upgrading the agent. If it continues to fail, use the manual upgrade method.
Resolution	2. Check the permissions for the user initiated the upgrade command. User can be viewed in Host > Agent History page. User should have following permissions, endpoint-server.agentupdate.manage and endpoint-server.ca.manage.

Issue	Linux agent upgrade fails with an error, sudo not found.
Resolution	Make sure that the sudo package is installed on the agent machine.

Agent Uninstall via UI Issues

available.

Issue	Agent uninstalled failed.
Explanation	Agent uninstall fails due to several unknown reasons.
	1. Retry uninstalling the agent.
Resolution	2. Use the manual uninstall method. For more information, see <u>Uninstalling Agent Manually</u> .

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