

# Netwrix Auditor

## Virtual Appliance

## Deployment Guide

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# 1. Netwrix Auditor Virtual Appliance Overview

In addition to traditional on-premises deployment, Netwrix Auditor now offers new deployment options that can speed time-to-value by getting you up and running in just 15 minutes. If you run a Microsoft Hyper-V or VMware vSphere, you can install Netwrix Auditor as a virtual appliance.

A virtual appliance is a VM image file consisting of generalized Windows Server 2012 R2, 180-day evaluation version, and installed Netwrix Auditor 8.5 with enabled auto-audit (User Activity auditing for localhost). The image also contains Microsoft SQL Server 2014 Express with native Reporting Services installed.

Navigate to the Netwrix website at [https://www.netwrix.com/virtual\\_appliances.html](https://www.netwrix.com/virtual_appliances.html) and start the Virtual Appliance Download Manager.

## 2. Requirements to Deploy Virtual Appliance

This section provides the software requirements and represents the default hardware configuration for the virtual machine where Netwrix Auditor virtual appliance is going to be deployed. Refer to the following sections for detailed information:

- [Software Requirements](#)
- [Hardware Configuration](#)

**NOTE:** The requirements below are sufficient for evaluation purposes only. Refer to [Netwrix Auditor Installation and Configuration Guide](#) for complete information on the requirements for installing Netwrix Auditor in production environments.

### 2.1. Software Requirements

The table below lists the minimum software requirements for the virtual appliance deployment:

Virtual Environment	Requirements
VMware	<ul style="list-style-type: none"><li>• VMware: Esxi 5.1, 5.5, 6.0</li><li>• Workstation: 11 and 12</li></ul>
Hyper-V Server	<ul style="list-style-type: none"><li>• Windows Server 2012</li><li>• Windows Server 2012 R2</li></ul>

### 2.2. Hardware Configuration

When deploying Netwrix Auditor virtual appliance, a pre-configured virtual machine is created. The table below contains the default hardware configuration of the VM where Netwrix Auditor virtual appliance is going to be deployed:

Parameter	Value
Common	
CPU	Dual

Parameter	Value
RAM	4 GB
HDD	50 GB
VMware only	
Total Video Memory	16 MB
Network adapter	vmxnet3
Other	Check and upgrade VMware tools during power cycle.

## 3. Deploy Netwrix Auditor Virtual Appliance

This section explains how to import a virtual machine with installed Netwrix Auditor virtual appliance to your virtual environment.

Review the following for additional information:

- [Import Virtual Machine from Image to VMware](#)
- [Import Virtual Machine from Image to Hyper-V](#)

### 3.1. Import Virtual Machine from Image to VMware

1. Connect to your VSphere Client and select **File** → **Deploy OVF Template**. Then follow the instructions in the table below:

Step	Description
<b>Source</b>	Browse for the folder that contains the Netwrix Auditor virtual appliance template.
<b>OVF Template Details</b>	Review information on this template.
<b>Name and Location</b>	Select a name for the new virtual machine if you do not want to use the default name " <i>Netwrix Auditor</i> ".  <b>NOTE:</b> The name must be unique within the inventory folder and may contain up to 80 characters including spaces.
<b>Resource Pool</b>	Select a resource pool to deploy Netwrix Auditor virtual appliance.
<b>Storage</b>	Select destination storage.
<b>Disk Format</b>	Netwrix recommends to select the <b>Thin Provision</b> option to save your disk space.
<b>Network Mapping</b>	If you have multiple networks on your ESXi Server, select the <b>Destination</b> network for a new virtual machine.
<b>Ready to Complete</b>	Review your virtual machine settings. Click <b>Finish</b> to exit the wizard.

2. Select the newly created virtual machine and click **Power On**.

## 3.2. Import Virtual Machine from Image to Hyper-V

1. On your Hyper-V server, unzip the Netwrix Auditor virtual appliance package to the specified location.
2. Navigate to **Start** → **All Apps** → **Hyper-V Manager**.
3. In the **Hyper-V Manager**, navigate to **Actions** → **Import virtual machine** and follow the instructions of the wizard. Review the table below for more information.

Step	Description
<b>Locate Folder</b>	Browse for the folder that contains extracted Netwrix Auditor virtual appliance.
<b>Select Virtual Machine</b>	Select <b>Netwrix Auditor</b> .
<b>Choose Import Type</b>	Choose the import type that best suits your needs.
<b>Choose Network Type</b>	Select a virtual switch.
<b>Summary</b>	Review your virtual machine settings. Click <b>Finish</b> to exit the wizard.

4. The newly created virtual machine named **Netwrix Auditor** will appear in the list of virtual machines. Right-click and select **Start**.



## 4. Configure Virtual Appliance

Follow the steps below to configure your virtual appliance with Netwrix Auditor.

1. Once you connect to the virtual appliance, you will find out that Windows Server 2012 R2 installation is almost complete. On the **Settings** page, specify a password for the built-in administrator account. Then re-enter your password. Click **Finish**.
2. Log in to the virtual machine.
3. The **Windows PowerShell** opens and automatically runs the script. Press any key to read the license agreement and then press **Y** to accept it. Then you will be prompted to configure the virtual machine. Press **Enter** to start.

Step	Description
<b>Rename virtual machine</b>	<p>Specify a new name for the virtual machine (e.g., <code>NA-Server</code>).</p> <p><b>NOTE:</b> The computer name must be properly formatted. It may contain letters (a-z, A-Z), numbers (0-9), and hyphens (-), but no spaces and periods (.). The name may not consist entirely of digits and may not be longer than 15 characters.</p>
<b>Configure network</b>	<ul style="list-style-type: none"> <li>• Select <b>Y</b> to use DHCP server to configure network settings automatically.</li> <li>• Select <b>N</b> to configure required parameters manually. In this case, you will be prompted to set up IP settings manually.</li> </ul>
<b>Join computer to the domain or workgroup</b>	<p><b>To join to domain:</b></p> <p>Select <b>Y</b>. Specify the fully qualified domain name to join (e.g., <code>corp.local</code>). Then, specify domain administrator name and password.</p> <p><b>NOTE:</b> For your convenience, the account specified will be added to the local <b>Administrators</b> group and set as default Data Processing Account to collect audit data from the target systems.</p> <p><b>To join to workgroup:</b></p> <p>Select <b>N</b>. Specify the local administrator name and credentials.</p>

Step	Description
	<b>NOTE:</b> For your convenience, the account specified will be set as default Data Processing Account to collect audit data from the target systems.
Configure SQL Server	The shell script automatically configures SQL Server instance. The <b>sysadmin</b> server role on SQL Server instance is granted automatically to the <b>BUILTIN\Administrators</b> group.
Configure self-auditing	The Managed Object for auditing user activity on the virtual appliance (self-auditing) is created automatically.

- When the script execution completes, you will be prompted to reboot the virtual machine for the changes to take effect. After reboot, log in to the virtual machine using the domain administrator credentials (for appliances joined to domain) or local administrator credentials (for appliances joined to workgroup).

In the example below, review how the shell script configures the new VM:

```

Netwrix Auditor Virtual Appliance Configuration

ComputerName: NASERVE-ILL7RU7
Domain name: WORKGROUP

[1] - Configure the Virtual Appliance
[2] - Exit and Reboot
Enter action number [Default =1]1

Starting the Virtual Appliance configuration...

Enter new NetBIOS name for this machine [Default=NA-Server]: NA-SRV2012R2
Computer name changed

Use DHCP server to configure network settings automatically [Y/N]? (Default "Yes"): N
Please wait. Once the Network Connections window appears,
configure network settings and press <Enter>...

# -----
# Local IP address information
# -----
Adapter: Microsoft Hyper-V Network Adapter
IPv4 Address: 172.28.23.213
Primary DNS server: 172.28.6.13

Do you want to join computer to domain [Y/N] (Default "Yes"): Y
Specify the fully qualified domain name for join: enterprise.local
Domain Administrator name (Domain\name): enterprise\administrator
Domain Administrator password: *****

Computer has been joined to the specified domain

Configuring SQL Server...
SQL Server configured

Configuring SRS SQL Database connection...
SQL Server Reporting Services configuration has been updated
Switching default shell to Windows Explorer...
Shell has been changed to Windows Explorer

Configuring other features...
Creating database to store User Activity data...
Configuring Netwrix Auditor Appliance - Screen Capture Managed Object...
Netwrix Auditor Appliance - Screen Capture Managed Object was configured
All operations completed

Press <Enter> to reboot

Computer will be rebooted automatically: 4

```

## 5. What Is Next

When you start the virtual machine for the first time, Netwrix Auditor Administrator Console starts automatically. Later, you can always run it from the **Start** menu or launch it by double-clicking the **Netwrix Auditor Administrator Console** shortcut on the desktop. By default, a Managed Object for auditing User Activity is created automatically and is configured to audit localhost.

Now you can evaluate Netwrix Auditor functionality. Review the table below for more information.

To...	Run...	Get more info
<ul style="list-style-type: none"> <li>• See a list of audit settings</li> <li>• See a list of Data Processing Account rights and permissions</li> </ul>	—	<a href="#">Netwrix Auditor Installation and Configuration Guide</a>
<ul style="list-style-type: none"> <li>• Create a Managed Object</li> <li>• Run data collection</li> <li>• Configure AuditArchive settings</li> <li>• Configure global settings:               <ul style="list-style-type: none"> <li>• SMTP settings</li> <li>• Data collection</li> <li>• Syslog platforms</li> <li>• Integration API</li> <li>• License information</li> </ul> </li> </ul>	Netwrix Auditor Administrator Console	<a href="#">Netwrix Auditor Administrator's Guide</a>
<ul style="list-style-type: none"> <li>• Browse audit data with AuditIntelligence search</li> <li>• Review diagrams</li> <li>• Generate reports</li> <li>• Configure report subscriptions</li> </ul>	Netwrix Auditor client	<a href="#">Netwrix Auditor User Guide</a>

**NOTE:** You can install Adobe Acrobat Reader DC on the virtual machine to read Netwrix Auditor documentation. Installation links can be found on the desktop.

**NOTE:** If an error occurs, navigate to C:\Setups to find the NetwrixVapp\*.log. It may help you troubleshoot deployment issues. If the error persists, please contact Netwrix technical support.