

Netwrix Auditor for EMC

Quick-Start Guide

Version: 8.5
10/17/2016



Legal Notice

The information in this publication is furnished for information use only, and does not constitute a commitment from Netwrix Corporation of any features or functions, as this publication may describe features or functionality not applicable to the product release or version you are using. Netwrix makes no representations or warranties about the Software beyond what is provided in the License Agreement. Netwrix Corporation assumes no responsibility or liability for the accuracy of the information presented, which is subject to change without notice. If you believe there is an error in this publication, please report it to us in writing.

Netwrix is a registered trademark of Netwrix Corporation. The Netwrix logo and all other Netwrix product or service names and slogans are registered trademarks or trademarks of Netwrix Corporation. Microsoft, Active Directory, Exchange, Exchange Online, Office 365, SharePoint, SQL Server, Windows, and Windows Server are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. All other trademarks and registered trademarks are property of their respective owners.

Disclaimers

This document may contain information regarding the use and installation of non-Netwrix products. Please note that this information is provided as a courtesy to assist you. While Netwrix tries to ensure that this information accurately reflects the information provided by the supplier, please refer to the materials provided with any non-Netwrix product and contact the supplier for confirmation. Netwrix Corporation assumes no responsibility or liability for incorrect or incomplete information provided about non-Netwrix products.

© 2016 Netwrix Corporation.

All rights reserved.

Table of Contents

1. Introduction	4
1.1. Netwrix Auditor Overview	4
2. Netwrix Auditor System Requirements	5
2.1. Supported Audited Systems	5
2.2. Requirements to Install Netwrix Auditor	5
2.2.1. Hardware Requirements	5
2.2.2. Software Requirements	6
3. Review Components Checklist	7
3.1. Configure Data Processing Account Rights and Permissions	7
4. Configure EMC Storages for Auditing	9
4.1. Configure EMC Celerra/VNX for Auditing	9
4.1.1. Configure Security Event Log Maximum Size	9
4.1.2. Configure Audit Object Access Policy	9
4.2. Configure EMC Isilon in Normal and Enterprise Modes	10
5. Install the Product	12
6. Create Managed Object to Audit File Servers	14
7. Make Test Changes	19
8. See How Netwrix Auditor Enables Complete Visibility	20
8.1. Review a Change Summary	21
8.2. Browse Data with AuditIntelligence Search	22
8.3. Review File Servers Overview	25
8.4. Review the All File Servers Activity Report	25
9. Related Documentation	27

1. Introduction

This guide is intended for the first-time users of Netwrix Auditor for EMC. It can be used for evaluation purposes, therefore, it is recommended to read it sequentially, and follow the instructions in the order they are provided. After reading this guide you will be able to:

- Install and configure Netwrix Auditor
- Create a Managed Object to start auditing EMC appliances
- Launch data collection
- See how Netwrix Auditor enables complete visibility

NOTE: This guide only covers the basic configuration and usage options for auditing EMC appliances with Netwrix Auditor. For advanced installation scenarios and configuration options, as well as for information on various reporting possibilities and other product features, refer to:

- [Netwrix Auditor Installation and Configuration Guide](#)
- [Netwrix Auditor Administrator's Guide](#)
- [Netwrix Auditor User Guide](#)

1.1. Netwrix Auditor Overview

Netwrix Auditor is a visibility and governance platform that enables control over changes, configurations and access in hybrid cloud IT environments to protect sensitive data regardless of its location. The platform provides security analytics to detect anomalies in user behavior and investigate threat patterns before a data breach occurs.

Netwrix Auditor includes applications for Active Directory, Azure AD, Exchange, Office 365, Windows file servers, EMC storage devices, NetApp filer appliances, SharePoint, Oracle Database, SQL Server, VMware, and Windows Server. Empowered with a RESTful API and user activity video recording, the platform delivers visibility and control across all of your on-premises or cloud-based IT systems in a unified way.

Major benefits:

- Detect insider threats—on premises and in the cloud
- Pass compliance audits with less effort and expense
- Increase productivity of IT security and operations teams

Netwrix Auditor for EMC detects and reports on all changes made to EMC Celerra, VNX/VNXe and Isilon storages, including modifications of files, folders, shares and permissions, as well as failed and successful access attempts.

2. Netwrix Auditor System Requirements

This section lists the requirements for the systems that are going to be audited with Netwrix Auditor, and for the computer where the product is going to be installed.

2.1. Supported Audited Systems

The table below lists systems that can be audited with Netwrix Auditor for EMC:

Audited System	Supported Versions
EMC	<ul style="list-style-type: none">• EMC VNX/VNXe/Celerra families (CIFS configuration only)• EMC Isilon 7.2.0.0 - 7.2.0.4, 7.2.1.0 - 7.2.1.2 (CIFS configuration only)

2.2. Requirements to Install Netwrix Auditor

This section provides the requirements for the computer where Netwrix Auditor is going to be installed. Refer to the following sections for detailed information:

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

2.2.1. Hardware Requirements

Before installing Netwrix Auditor, make sure that your hardware meets the following requirements:

Hardware Component	Minimum	Recommended
Processor	Intel or AMD 32 bit, 2 GHz	Intel Core 2 Duo 2x 64 bit, 3 GHz Preferably a virtual machine
RAM	2 GB	8 GB
Disk space	<ul style="list-style-type: none">• 500 MB physical disk space for the product installation	

Hardware Component	Minimum	Recommended
	<ul style="list-style-type: none"> 30 GB for the file-based Long-Term Archive 500 MB for the SQL Server-based Audit Database where audit data is going to be stored <p>NOTE: These are rough estimations, calculated for evaluation of Netwrix Auditor for EMC. Refer to Netwrix Auditor Installation and Configuration Guide for complete information on the Netwrix Auditor disk space requirements.</p>	
Screen resolution	1280 x 1024	1920 x 1080 and higher

2.2.2. Software Requirements

The table below lists the minimum software requirements for the Netwrix Auditor installation:

Component	Requirements
Operating system	<ul style="list-style-type: none"> Windows Desktop OS (64-bit): Windows 7 SP1, Windows 8.1 Windows Server OS (64-bit): Windows Server 2008 R2 SP1, Windows Server 2012/2012 R2
Framework	<ul style="list-style-type: none"> .Net Framework 3.5 SP1
Installer	<ul style="list-style-type: none"> Windows Installer 3.1 and above

3. Review Components Checklist

To speed up the evaluation process, Netwrix recommends you to ensure that the following services and components are up and running prior to the Netwrix Auditor installation.

Service or component	Recommendations
Network and audited system	Test connectivity to your audited system. Make sure you can access it by its NetBIOS and DNS names from the computer where you intend to install Netwrix Auditor—use the nslookup command-line tool to look up domain names. Domain controllers must be accessible as well.
SQL Server 2014 with SSRS (optional step)	<p>Although Netwrix Auditor provides a convenient interface for downloading SQL Server 2014 Express right from Netwrix Auditor Administrator Console, it is recommended to deploy SQL Server instance in advance. Test your SQL Server connectivity.</p> <p>NOTE: Netwrix Auditor provides an option to verify SSRS settings right in the Netwrix Auditor Administrator Console.</p>
Test account	<p>Netwrix recommends you to create a special account with extensive privileges. This account should have sufficient permissions to:</p> <ul style="list-style-type: none">• Collect audit data. See Configure Data Processing Account Rights and Permissions for more information.• Access data stored in the SQL Server instance:<ul style="list-style-type: none">• The account must be assigned the Database owner (db_owner) role and the dbcreator server role.• The account must be assigned the Content Manager role on the SSRS Home folder.• Make test changes in your environment.

3.1. Configure Data Processing Account Rights and Permissions

The Data Processing Account is used to collect audit data from the target systems. To ensure successful data collection, the Data Processing Account must comply with the following requirements depending on the audited system.

NOTE: The information in this section is outside the quick-start guide scope and is provided for reference only. See [Netwrix Auditor Installation and Configuration Guide](#) for detailed instructions on how to configure your Data Processing Account.

Audited system	Rights and permissions
EMC Isilon	<i>On the target server:</i> <ul style="list-style-type: none">• A member of the BUILTIN\Administrators group• The Read permissions on to the audited shared folders
EMC Celerra/ VNX/VNXe	<i>On the target server:</i> <ul style="list-style-type: none">• The Read share permissions on to the audited shared folders• A member of local Administrators group

4. Configure EMC Storages for Auditing

4.1. Configure EMC Celerra/VNX for Auditing

To collect comprehensive audit data, you must configure your file shares for auditing. Audit configuration includes several manual and automatically performed steps:

- Automatically when creating a Managed Object—Partially. Only audit settings for file shares will be configured.
- Manually.
 - [Configure Security Event Log Maximum Size](#) to avoid overwriting of the security logs; it is recommended to set security log size to a maximum (4GB).
 - [Configure Audit Object Access Policy](#). Set the **Audit object access** policy set to "Success" and "Failure" in the Group Policy of the OU where your EMC VNX/VNXe/Celerra appliance belongs to.

4.1.1. Configure Security Event Log Maximum Size

1. On your file server, create a new file system where the security log will be stored.
2. Mount this file system on a mount point, e.g., `/events`.
3. Make sure that it is accessible via the `\\<file_server_name>\C$\events` UNC path.
4. On the computer where Netwrix Auditor is installed, open **Registry Editor**: navigate to **Start** → **Run** and type "regedit".
5. Navigate to **File** → **Connect Network Registry** and specify the file server name.
6. Navigate to `HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog\Security` and set the **File** value to "C:\events\security.evt".
7. Set the **MaxSize** value to "4 000 000 000 (decimal)".
8. Restart the corresponding Data Mover for the changes to take effect.

4.1.2. Configure Audit Object Access Policy

NOTE: Netwrix recommends you to avoid linking a GPO to the top level of the domain due to the potential impact. Instead, create a new organization unit for your file servers within your domain

and assign GPO there. For detailed instructions on how to create a new OU, refer to the following Microsoft article: [Create a New Organizational Unit](#).

1. Open the **Group Policy Management** console on any domain controller in the target domain: navigate to **Start** → **Administrative Tools** → **Group Policy Management**.
2. In the left pane, navigate to **Forest: <forest_name>** → **Domains** → **<domain_name>**, right-click **<OU_name>** and select **Create a GPO in this domain and Link it here**.
3. Enter the name for the new GPO.
4. Right-click the newly created GPO and select **Edit**.
5. In the **Group Policy Management Editor** dialog, expand the **Computer Configuration** node on the left and navigate to **Policies** → **Windows Settings** → **Security Settings** → **Local Policies** → **Audit Policy**.

Policy Subnode	Policy Name	Audit Events
Audit Policy	Audit object access	"Success" and "Failure"

6. Navigate to **Start** → **Run** and type `"cmd"`. Input the `gpupdate /force` command and press **Enter**. The group policy will be updated.

NOTE: You can configure advanced audit policy to narrow the range of events tracked and recorded by the product, thus preventing your AuditArchive and the Security event log from overfilling. See [Netwrix Auditor Installation and Configuration Guide](#) for more information.

4.2. Configure EMC Isilon in Normal and Enterprise Modes

You can configure your cluster for auditing in one of the following ways:

- Using the **configure_ifs.sh** shell script that comes with Netwrix Auditor. See [To configure EMC Isilon cluster in Normal and Enterprise mode via shell script](#) for more information.
- Manually. See [Netwrix Auditor Installation and Configuration Guide](#) for detailed instructions on how to configure EMC Isilon for auditing manually.

To configure EMC Isilon cluster in Normal and Enterprise mode via shell script

1. On the computer where Netwrix Auditor Administrator Console resides, navigate to `C:\Program Files (x86)\Netwrix Auditor\File Server Auditing` and copy the **configure_ifs.sh** shell script to `/ifs/data` catalog on your cluster.
2. Navigate to your cluster command prompt through the **SSH** connection.
3. Log in to your cluster as a root user.

4. Run the shell script by executing the following command:

```
sh /ifs/data/configure_ifs.sh -z zone1 -a 15
```

where

`zone1` is the name of the audited access zone on your file server.

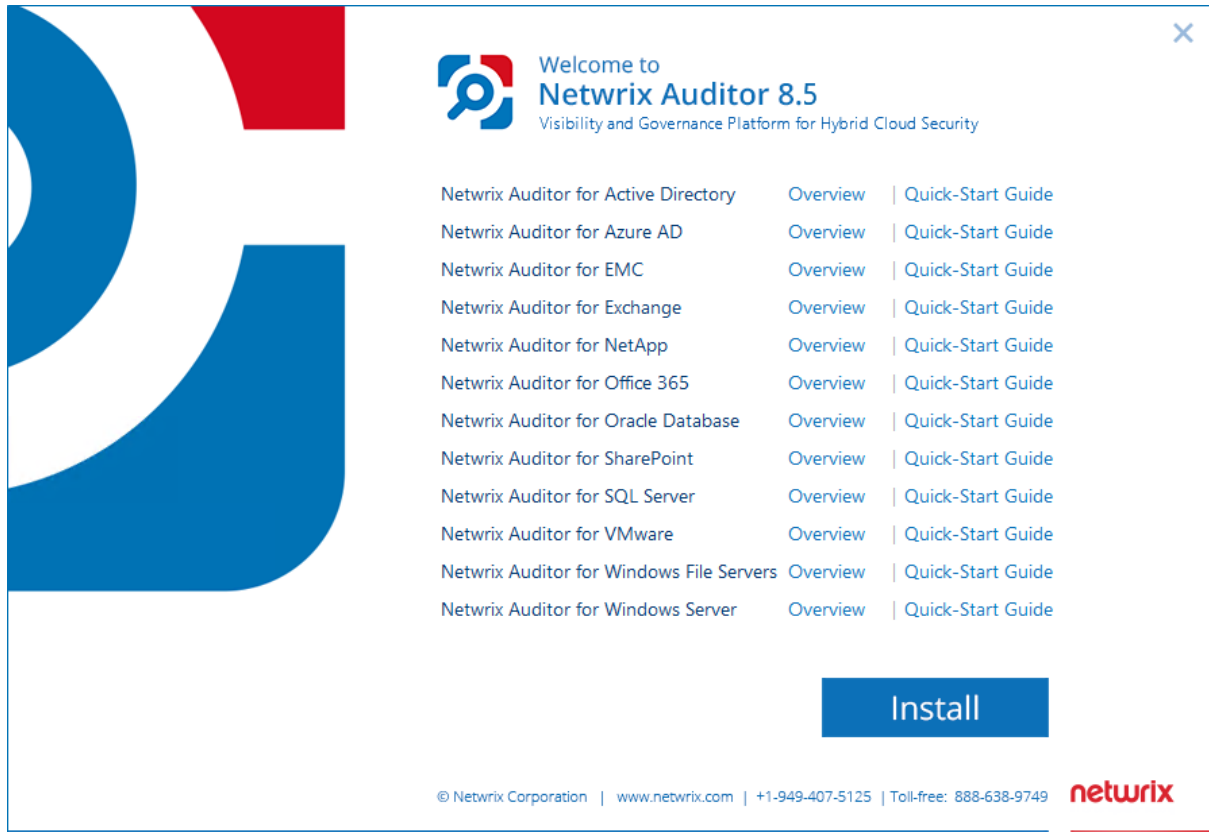
`15` is a combination of the bitwise flags. The table below shows the example combination of 4 flags:

Successful changes	1
Failed change attempts	2
Successful reads	4
Failed read attempts	8
Total:	15

5. Install the Product

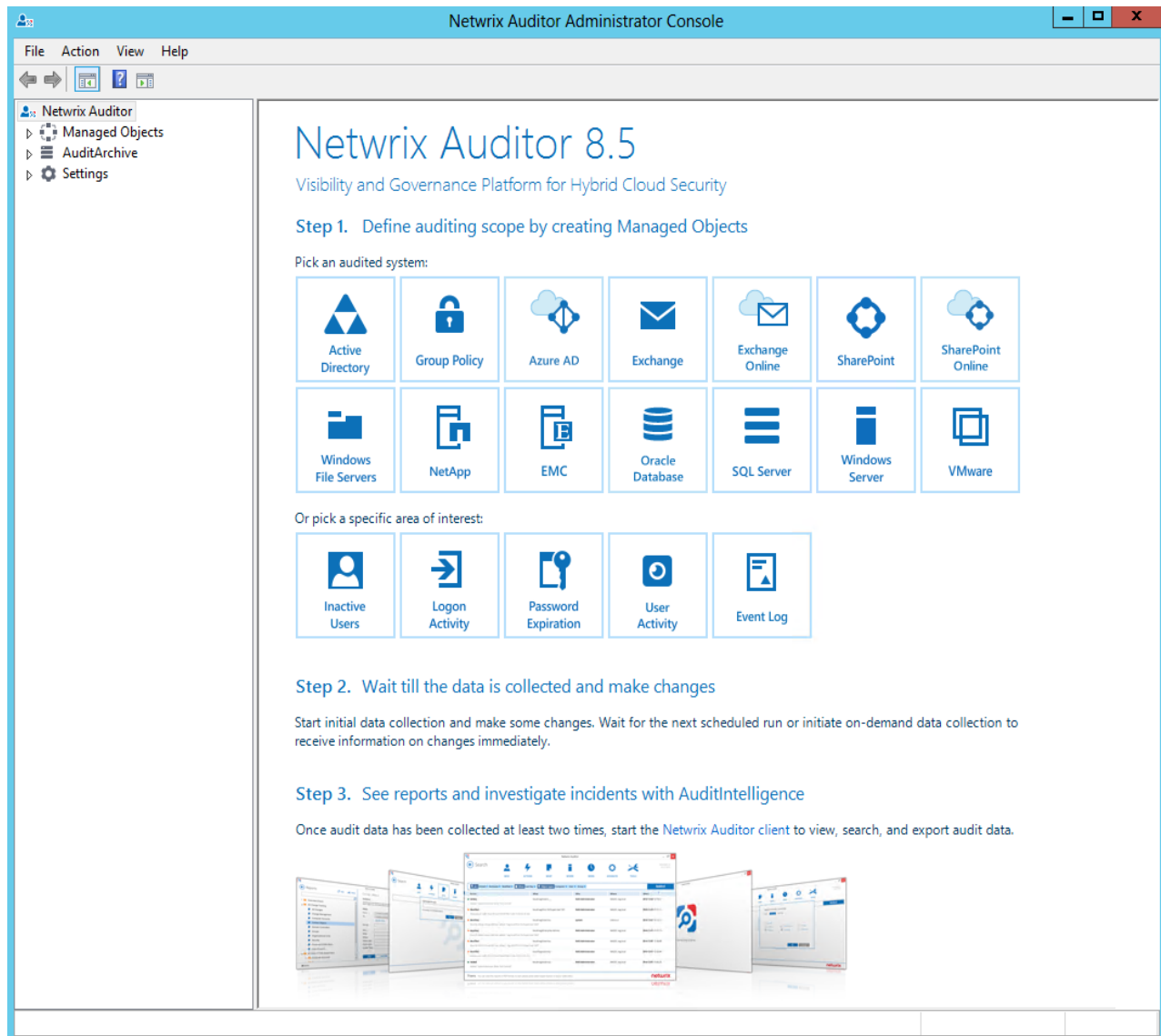
To install Netwrix Auditor

1. Download Netwrix Auditor 8.5 on [Netwrix website](#).
2. Unpack the installation package. The following window will be displayed on successful operation completion:



3. Follow the instructions of the setup wizard. When prompted, accept the license agreement.
4. On the **Select Installation Type** step, select **Full installation**.
5. On the **Destination Folder** step, specify the installation folder.
6. Click **Install**.

After a successful installation, Netwrix Auditor shortcuts will be added to the **Start** menu/screen and Netwrix Auditor Administrator Console will open.



6. Create Managed Object to Audit File Servers

To start auditing your IT Infrastructure with Netwrix Auditor, you must create a Managed Object. A Managed Object is a container within Netwrix Auditor that stores information on the auditing scope, the Data Processing Account used for data collection, Audit Database settings, etc.

To create a Managed Object to audit EMC appliances

1. On the main Netwrix Auditor Administrator Console page, click the **EMC** tile to launch the **New Managed Object** wizard.
2. On the **Select Managed Object Type** step, select **Computer Collection** as a Managed Object type.
3. On the **Specify Default Data Processing Account** step, click **Specify Account**.

Enter the default Data Processing Account that will be used by Netwrix Auditor for data collection. For a full list of the rights and permissions required for the Data Processing Account, and instructions on how to configure them, refer to [Netwrix Auditor Installation and Configuration Guide](#).

4. On the **Specify Email Settings** step, specify the email settings that will be used for Change Summaries, reports and real-time alerts delivery. Netwrix Auditor automatically detects SMTP settings or you can provide them manually. Complete the following fields:

Option	Description
SMTP server	Enter your SMTP server name. It can be your company's Exchange server or any public mail server (e.g., Gmail, Yahoo).
Port	Specify your SMTP server port number.
Sender address	Enter the address that will appear in the From field. NOTE: It is recommended to click Verify . The system will send a test message to the specified email address and inform you if any problems are detected.
SMTP Authentication	Select this checkbox if your mail server requires the SMTP authentication.
User name	Enter a user name for the SMTP authentication.

Option	Description
Password	Enter a password for the SMTP authentication.
Confirm password	Confirm the password.
Use Secure Sockets Layer encrypted connection (SSL)	Select this checkbox if your SMTP server requires SSL to be enabled.
Implicit SSL connection mode	Select this checkbox if the implicit SSL mode is used, which means that an SSL connection is established before any meaningful data is sent.

- On the **Specify Computer Collection Name** step, enter the computer collection name.
- On the **Audit Database Settings** step, make sure that the **Make audit data available via summary emails only** checkbox is cleared. By default, the Audit Database is created automatically and is used to store collected audit data.

Select one of the following:

- **Automatically install and configure a new instance of SQL Server Express Edition** to automatically install and configure SQL Server 2014 Express with Advanced Services.
- **Use an existing SQL Server instance with SQL Server Reporting Services** to use an already installed SQL Server instance. Netwrix Auditor detects local SQL Server instance automatically and pre-populates the fields.

Complete the following fields:

Option	Description
SQL Server Settings	
SQL Server instance	Specify the name of the SQL Server instance to store audit data.
Authentication	Select the authentication type you want to use to connect to the SQL Server instance: <ul style="list-style-type: none"> • Windows authentication • SQL Server authentication
User name	Specify the account to be used to connect to the SQL Server instance.

NOTE: This account must be granted the **database owner (db_**

Option	Description
	owner) role and the dbcreator server role. See Netwrix Auditor Installation and Configuration Guide for more information.
Password	Enter a password.
SQL Server Reporting Services Settings	
Report Server URL	Specify the Report Server URL. Make sure that the resource is reachable.
Report Manager URL	Specify the Report Manager URL. Make sure that the resource is reachable.
User name	Specify the account to be used to connect to SSRS.
Password	Enter a password.

7. On the **State-in-Time Reports** step, you can enable or disable **State-in-Time Reports**. This feature allows generating reports on your system configuration state at a specific moment of time in addition to change reports. If enabled, snapshots will be created daily and written to the Audit Database. This option is unavailable if the **Audit Database** settings are not configured.
8. On the **Add Items to Computer Collection** step, click **Add** to select items that you want to audit. You can add several items to collection. In the **Computer Collection New Item** dialog that opens, select the item type:
 - **EMC Celerra/VNX**—On the **Specify Items** step, provide a server name by entering its FQDN, NETBIOS or IP address. You can click **Browse** to select a computer from the list of computers in your network. Select **Only these** and click **Add** to select shared folders. Otherwise, all file shares (except hidden) hosted on this server will be audited.
 - **EMC Isilon**—Complete the following:
 1. On the **Specify Items** step, provide a server name by entering its FQDN, NETBIOS or IP address. You can click **Browse** to select a computer from the list of computers in your network. Select **Only these** and click **Add** to select shared folders. Otherwise, all file shares (except hidden) hosted on this server will be audited.
 2. On the **Configure EMC Isilon Auditing** step, complete the following fields:

Option	Description
Provide a name of Access	Enter the name of access zone on your file server (e.g., zone1).

Option	Description
Zone you want to audit	
Provide URL for Isilon OneFS web administration interface	Enter EMC Isilon web administration URL (e.g., <i>https://172.28.15.126:8080/</i>).
Provide a File Share UNC path to audit logs	Path to the file share located on a EMC Isilon with event log files (e.g., <i>\\srv\netwrix_audit\$\logs\</i>).

9. On the **Configure Audit in Target Environment** step, select **Manually** for EMC Isilon. Currently, Netwrix Auditor cannot configure audit on EMC Isilon appliances automatically. If you want to audit EMC Celerra/VNX, select **Automatically for the selected audited systems**, but only audit settings for file shares will be configured, the rest of settings must be configured manually. Your current audit settings will be periodically checked and adjusted if necessary.

NOTE: For a full list of audit settings required for Netwrix Auditor to collect comprehensive audit data and instructions on how to configure them, refer to [Netwrix Auditor Installation and Configuration Guide](#).

10. On the **Configure File Servers Change Summary Delivery Settings** step, enter your email.
11. On the **Configure File Servers Auditing Scope** step, select checkboxes next to successful and failed changes.

Option	Description	
Audit File Servers changes	Successful	Use this option to track changes to your data. Helps find out who made changes to your files, including their creation and deletion.
	Failed	Use this option to detect suspicious activity on your file server. Helps identify potential intruders who tried to modify or delete files, etc., but failed to do it.
Audit File Servers read access	Successful	Use this option to supervise access to files containing confidential data intended for privileged users. Helps identify who accessed important files besides your trusted users.

NOTE: Enabling this option on public shares will result in high number of events generated on your file server and the amount of data written to the AuditArchive.

Option	Description
Failed	Use this option to track suspicious activity. Helps find out who was trying to access your private data without proper justification. NOTE: Enabling this option on public shares will result in high number of events generated on your file server and the amount of data written to the AuditArchive.

NOTE: Actions reported by Netwrix Auditor vary depending on the file server type and the audited object (file, folder, or share).

12. On the last step, review your Managed Object settings and make sure **Run data collection now** is enabled. Click **Finish** to exit the wizard. The newly created Managed Object will appear under the **Managed Objects** node.

When a new Managed Object is created, Netwrix Auditor starts collecting data from the audited IT infrastructure. The first data collection runs automatically and gathers information on the audited system's current configuration state. Netwrix Auditor uses this information as a benchmark to collect data on changes. After the first data collection has finished, an email notification is sent to your email stating that the analysis has completed.

7. Make Test Changes

Now that the product has collected a snapshot of the audited system's current configuration state, you can make test changes to see how they will be reported by Netwrix Auditor.

For example, make the following test changes:

- Create a new file/folder in your file share
- Modify a file attribute in your file share

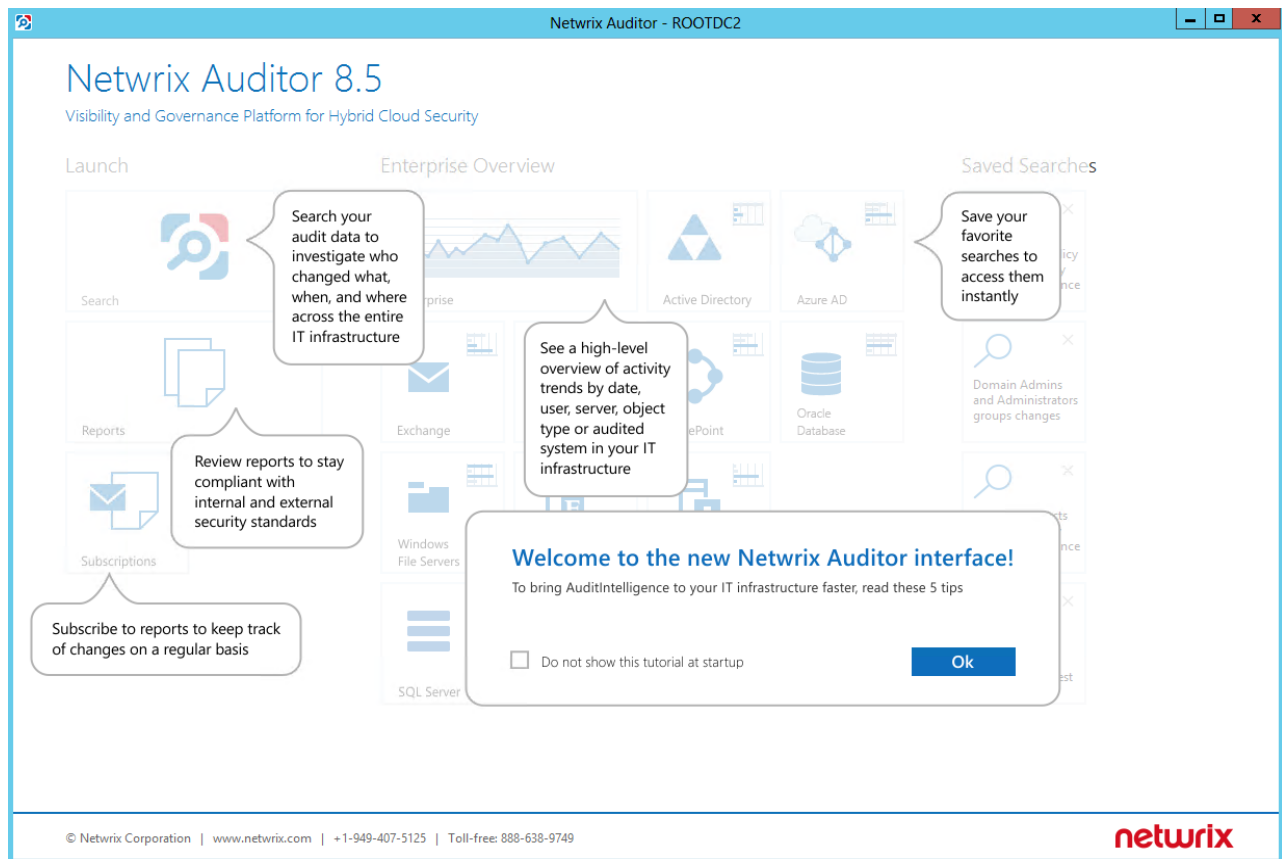
NOTE: Before making any test changes to your environment, ensure that you have the sufficient rights, and that the changes conform to your security policy.

8. See How Netwrix Auditor Enables Complete Visibility

After you have made test changes to the audited environment, you can see how Netwrix Auditor brings AuditIntelligence into your IT infrastructure and enables its complete visibility. This section explains how to review your test changes in the Netwrix Auditor client and Change Summary.

To launch the Netwrix Auditor client

- Navigate to Start → Netwrix Auditor.



Review the following for additional information:

- [Review a Change Summary](#)
- [Browse Data with AuditIntelligence Search](#)
- [Review File Servers Overview](#)
- [Review the All File Servers Activity Report](#)

In order not to wait for a scheduled data collection and a Change Summary generation, launch data collection manually.

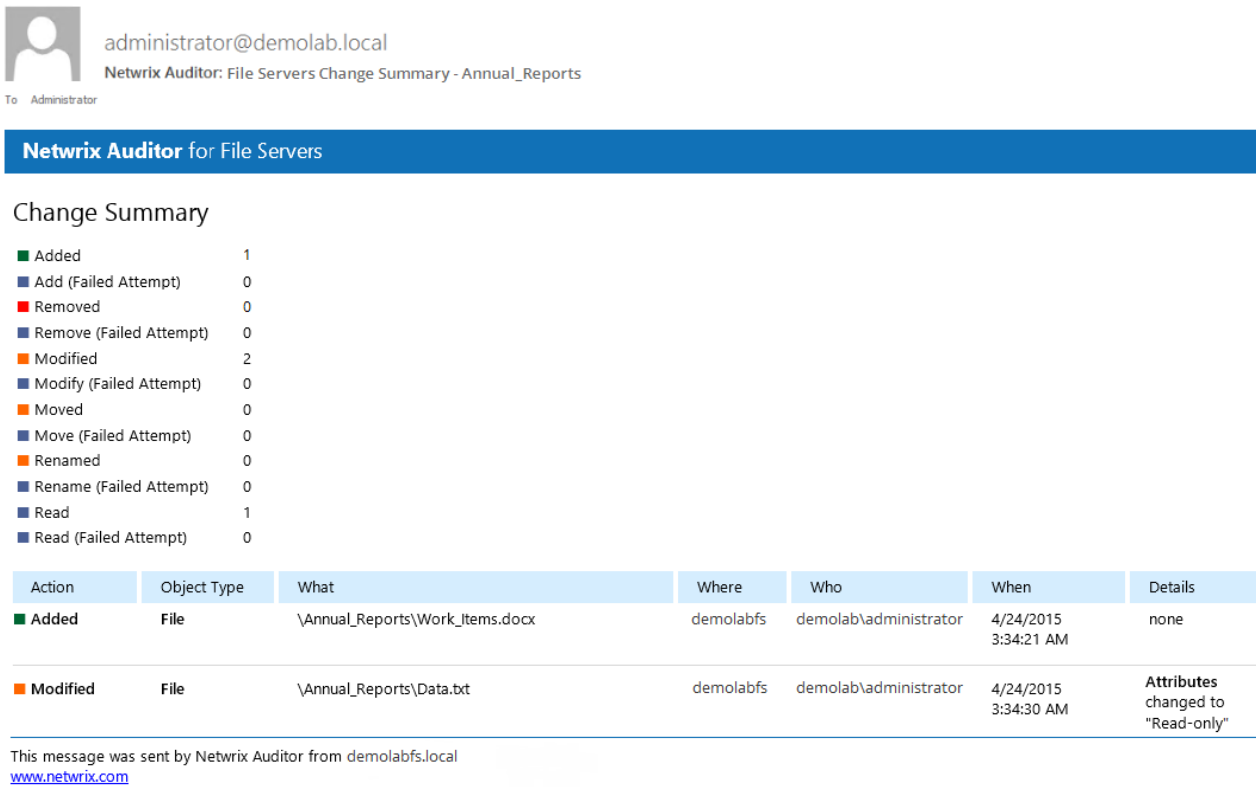
To launch data collection manually

1. In the Netwrix Auditor Administrator Console, navigate to **Managed Objects** → **your_Managed_Object_name**.
2. In the right pane, click **Run**.
3. Check your mailbox for an email notification and make sure that the data collection has completed successfully.

8.1. Review a Change Summary

A Change Summary is email that lists all changes that occurred since the last Change Summary delivery. By default, a Change Summary is generated daily at 3:00 AM and delivered to the specified recipients. You can also launch data collection and a Change Summary generation manually.

After the data collection has completed, check your mailbox for a Change Summary and see how your test changes are reported:



The screenshot shows an email from administrator@demolab.local titled "Netwrix Auditor: File Servers Change Summary - Annual_Reports". The email body includes a "Change Summary" section with a list of actions and their counts, followed by a table of specific changes.

Change Summary

- Added: 1
- Add (Failed Attempt): 0
- Removed: 0
- Remove (Failed Attempt): 0
- Modified: 2
- Modify (Failed Attempt): 0
- Moved: 0
- Move (Failed Attempt): 0
- Renamed: 0
- Rename (Failed Attempt): 0
- Read: 1
- Read (Failed Attempt): 0

Action	Object Type	What	Where	Who	When	Details
■ Added	File	\Annual_Reports\Work_Items.docx	demolabfs	demolab\administrator	4/24/2015 3:34:21 AM	none
■ Modified	File	\Annual_Reports\Data.txt	demolabfs	demolab\administrator	4/24/2015 3:34:30 AM	Attributes changed to "Read-only"

This message was sent by Netwrix Auditor from demolabfs.local
www.netwrix.com

The example Change Summary provides the following information:

Column	Description
Action	Shows the type of action that was performed on the object.
Object Type	Shows the type of the object.
What	Shows the name of the changed object or its path.
Where	Shows the name of the server where the change occurred.
Who	Shows the name of the account under which the change was made.
When	Shows the exact time when the change occurred.
Details	Shows the before and after values of the modified object, object attributes, etc.

8.2. Browse Data with AuditIntelligence Search

Netwrix Auditor delivers complete visibility into your IT infrastructure. Its convenient AuditIntelligence search interface enables you to investigate incidents and browse audit data collected across the entire IT infrastructure. When running a search in Netwrix Auditor, you are not limited to a certain audited system, change type, or object name. You can create flexible searches that provide you with precise results on *who* changed *what*, and *when* and *where* each change was made.

After collecting initial data, making test changes to your environment and running data collection again, you can review changes in details with AuditIntelligence search.



To browse your audit data and see you test changes

1. On the main Netwrix Auditor page, navigate to **Search**.
2. Add search filters to your search by clicking on a corresponding icon and providing a value. By default, all entries that contain this filter value are shown. For an exact match, use quotation marks.

Filters are used to narrow your search results. To create a unique set of filters, you can:

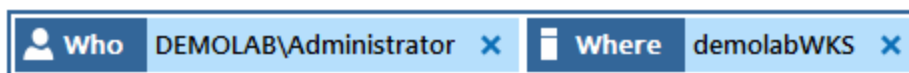
- Add different filters to your search. Search results will be sorted by all selected filters since they work as a logical conjunction (e.g., **Who: Administrator** AND **Action: Added**).
- Specify several values in the same filter to search for any of them (e.g., **Action: Modified** OR **Action: Removed**). To do this, select a filter again and specify a new value.

For example, consider adding these filters:

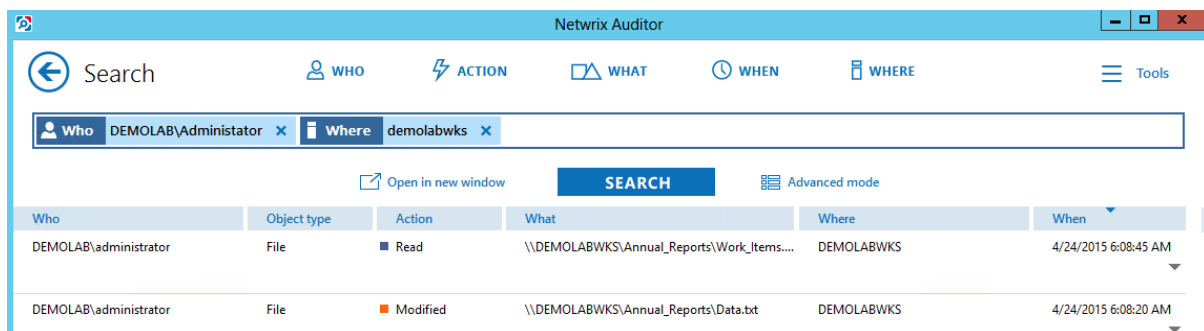
Filter	Value
 WHO	Specify your account name, as you performed test changes.
 WHERE	Specify your file server name.

NOTE: Refer to [Netwrix Auditor User Guide](#) for detailed instructions on how to apply filters and change match types.

As a result, you will see the following filters in the **Search** field:



- Click **Search**.



- Now, you can narrow your search and modify it right from the search results pane. Double-click any entry that contains excess data, select **Exclude from search** and specify a filter, e.g., **Action: Read** to leave information on modifications and removals only.

Who	Object type	Action	What
DEMOLAB\administrator	File	■ Read	\\DEMOLABWKS\Annual_Reports\Wo...

Exclude from search ▶

Details: No details

[Read more...](#)

Who: DEMOLAB\administrator

Object type: File

Audited system: File Servers

Managed object: DEMOLAB computers

Action: Read

What: \\DEMOLABWKS\Annual_Reports\Wo...

Where: DEMOLABWKS

When: 4/24/2015 6:08:45 AM

Your **Search** field will be updated, the filter will be added. Make sure to click **Search** again to update your search results.

The screenshot shows the Netwrix Auditor web interface. At the top, there's a navigation bar with icons for WHO, ACTION, WHAT, WHEN, and WHERE. Below this is a search bar with filters: Who: DEMOLAB\Administrator, Where: demolabWKS, and Action not: "Read". A "SEARCH" button is visible. Below the search bar, there's a table with search results. The table has columns: Who, Object type, Action, What, Where, and When. Two results are shown: one for a 'Modified' action on a file and another for a 'Removed' action on a file.

Who	Object type	Action	What	Where	When
DEMOLAB\administrator	File	■ Modified	\\DEMOLABWKS\Annual_Reports\Data.txt	DEMOLABWKS	4/24/2015 6:08:20 AM
DEMOLAB\administrator	File	■ Removed	\\DEMOLABWKS\Annual_Reports\Goals.txt	DEMOLABWKS	4/24/2015 6:08:15 AM

5. Having reviewed your search results, navigate to **Tools**.

- Click **Export data** to save your search results as a *.pdf or *.csv file.
- Click **Save search** to save the selected set of filters. This search will be added to the **Saved Searches** section on the main Netwrix Auditor page, so that you will be able to access it instantly. Refer to [Netwrix Auditor User Guide](#) for detailed instructions on how to create saved searches.

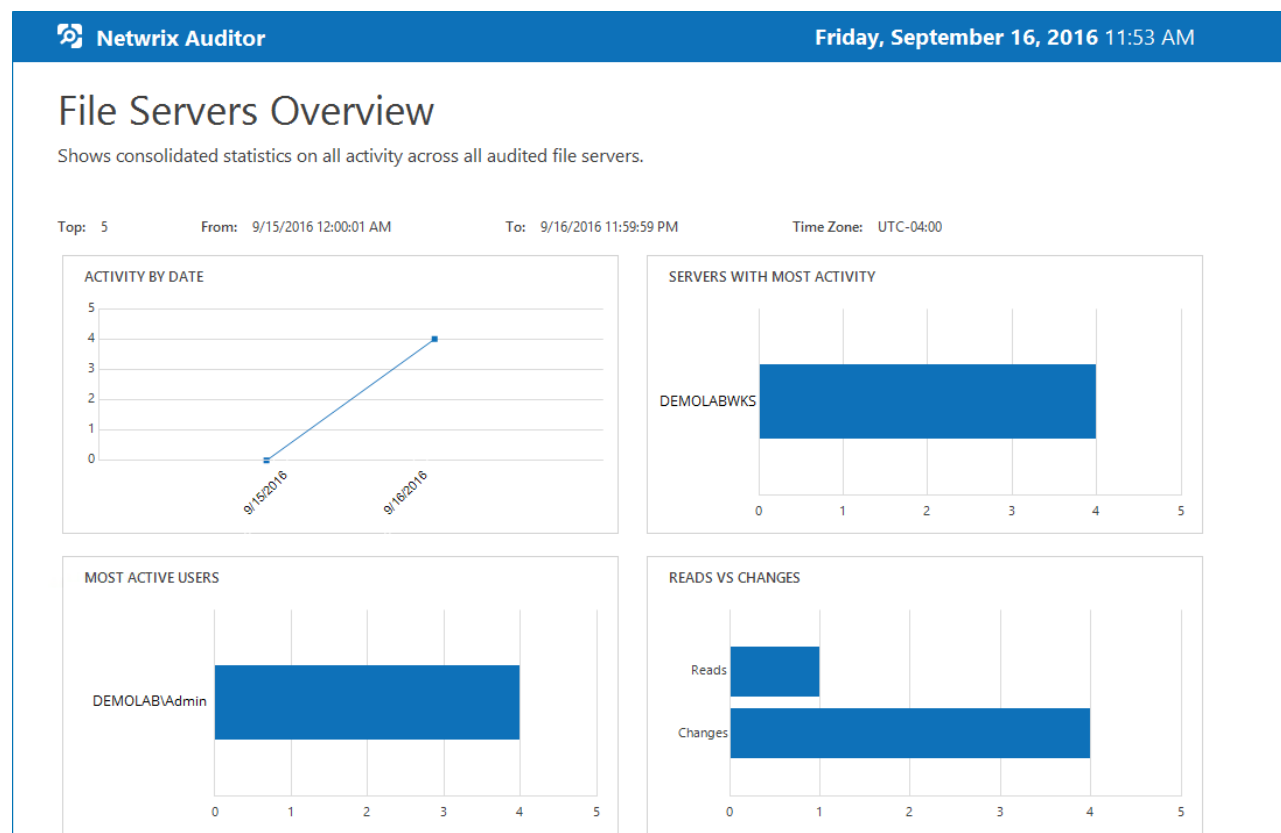
8.3. Review File Servers Overview

Enterprise Overview provides a high-level overview of activity trends by date, user, server, object type or audited system in your IT infrastructure. The **Enterprise** diagram aggregates data on all Managed Objects and all audited systems, while system-specific diagrams provide quick access to important statistics within one audited system.

After collecting initial data, making test changes to your environment and running data collection again, you can get at-a-glance statistics for changes with the **File Servers Overview**.

To see how your changes are reported with File Servers Overview

1. On the main Netrix Auditor page, navigate to the **Enterprise Overview** section.
2. Click the **EMC** tile to open it.
3. Review your changes.
4. Click on any chart to jump to a table report with the corresponding grouping and filtering of data.



8.4. Review the All File Servers Activity Report

Netrix Auditor allows generating audit reports based on Microsoft SQL Server Reporting Services (SSRS). The Netrix Auditor client provides a variety of predefined reports that aggregate data from the entire


audited IT infrastructure, an individual system, or a Managed Object.

Change reports can be found under the **Reports → File Servers → File Servers Activity** and provide a narrower insight into what is going on in the audited infrastructure and help you stay compliant with various standards and regulations (FISMA, HIPAA, PCI, SOX, etc.).

After collecting initial data, making test changes to your environment and running data collection again, you can take advantage of the reports functionality.

To see how your changes are listed in the report

1. In the Netwrix Auditor client, navigate to **Reports → File Servers → File Servers Activity**.
2. Select the **All File Servers Activity** report.
3. Click **View** to open the report.


Netwrix Auditor
Thursday, September 01, 2016 9:01 AM

All File Server Activity

Shows all activity (changes, failed modifications, reads, and failed read attempts) on all audited file servers.

Filter		Value		
Action	Object Type	What	Who	When
■	Removed	File	\\DEMOLABWKS\Annual_Reports\ Goals.txt	DEMOLAB\administrator 9/1/2016 6:08:15 AM
Where:		DEMOLABWKS		
■	Modified	File	\\DEMOLABWKS\Annual_Reports\ Data.txt	DEMOLAB\administrator 9/1/2016 6:08:20 AM
Where:		DEMOLABWKS		
■	Read	File	\\DEMOLABWKS\Annual_Reports\ Work_Items.docx	DEMOLAB\administrator 9/1/2016 6:08:45 AM
Where:		DEMOLABWKS		

9. Related Documentation

The table below lists all documents available to support Netwrix Auditor for EMC:

Document	Description
Netwrix Auditor Installation and Configuration Guide	Provides detailed instructions on how to install Netwrix Auditor, and explains how to configure your environment for auditing.
Netwrix Auditor Administrator's Guide	Provides step-by-step instructions on how to configure and use the product.
Netwrix Auditor User Guide	Provides detailed instructions on how to enable complete visibility with AuditIntelligence.
Netwrix Auditor Integration API Guide	Provides step-by-step instructions on how to leverage Netwrix Auditor audit data with on-premises and cloud auditing solutions using RESTful API.
Netwrix Auditor Release Notes	Lists the known issues that customers may experience with Netwrix Auditor 8.5, and suggests workarounds for these issues.