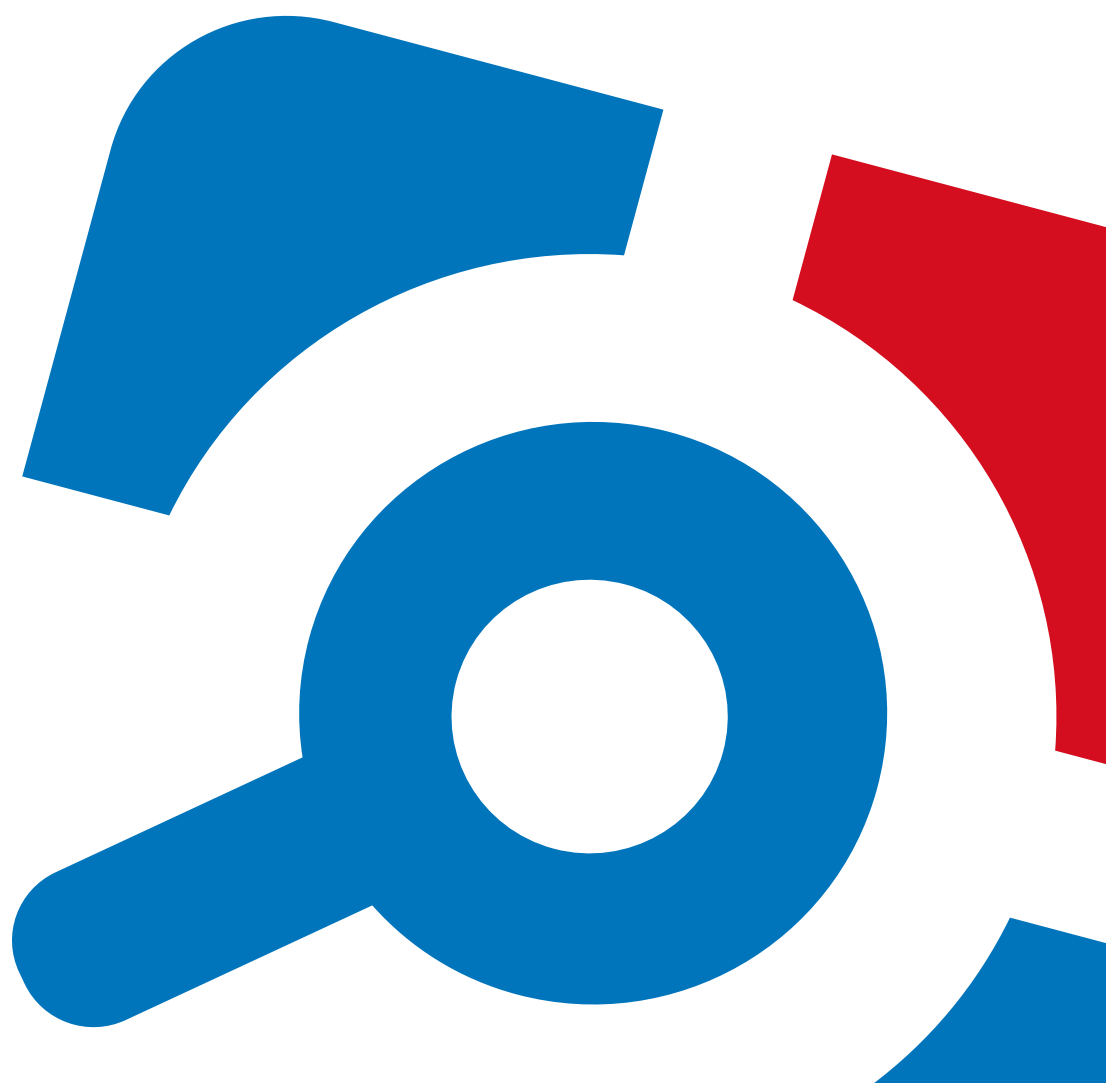


Netwrix Auditor Data Discovery and Classification Quick-Start Guide

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1. Introduction

This guide is intended for the first-time users of Netwrix Auditor Data Discovery and Classification. 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 DDC Collector
- Configure data sources in Netwrix Auditor
- Enable and configure DDC Provider
- Review Data Discovery and Classification reports

NOTE: The DDC Collector and DDC Provider work only in combination with supported Netwrix Auditor applications; so this guide covers a basic procedure for running the modules and assumes that you have Netwrix Auditor installed and configured in your environment. For installation scenarios, data collection options, as well as detailed information on how Netwrix Auditor works, refer to the following Quick-Start Guides, depending on your data source:

- [Netwrix Auditor for Windows File Servers Quick-Start Guide](#)
- [Netwrix Auditor for EMC Quick-Start Guide](#)
- [Netwrix Auditor for NetApp Quick-Start Guide](#)
- [Netwrix Auditor for SharePoint Quick-Start Guide](#)

1.1. Netwrix Auditor Overview

Netwrix Auditor is a visibility platform for user behavior analysis and risk mitigation that enables control over changes, configurations and access in hybrid IT environments to protect 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, network devices, SharePoint, Oracle Database, SQL Server, VMware, Windows Server, and User Activity. Empowered with a RESTful API, 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

To learn how Netwrix Auditor can help you achieve your specific business objectives, refer to [Netwrix Auditor Best Practices Guide](#).

New! Netwrix Data Classification

Important Product Upgrade Information

Netwrix Data Classification is a new product that replaces Netwrix Auditor Data Discovery and Classification Edition. The new product retains backward compatibility with Netwrix Auditor data discovery and classification reporting features and offers a direct upgrade path from the previous versions of Netwrix Auditor Data Discovery and Classification Edition. You can learn more about Netwrix Data Classification here: [Intelligent Content Services Platform](#).

NOTE: Netwrix Data Classification effectively substitutes the DDC Collector component. You can use this existing manual to deploy and configure the Netwrix Auditor data discovery and classification reports. For information on installing and configuring Netwrix Data Classification, refer to the following Online Help Center article: [Deploy Netwrix Data Classification](#).

You can continue using Netwrix Auditor Data Discovery and Classification Edition until its support expires on December 31, 2020, but we recommend that you plan to upgrade to Netwrix Data Classification to benefit from its new features and enhancements: [Netwrix Data Classification Release Notes](#).

2. Data Discovery and Classification Overview

Netwrix Auditor's Data Discovery and Classification gives you complete visibility into where your sensitive files are, what content is inside them, who can access these files and who actually uses them. With this actionable information, your risk, compliance and data security officers and IT security pros can prioritize their efforts and secure data in accordance with its value or sensitivity. Your organization will be able to mitigate the risk of PII, PHI, PCI and IP being stored outside dedicated locations, and apply controls and policies consistently and accurately, ensuring both data security and regulatory compliance.

With Netwrix Auditor Data Discovery and Classification, you can identify, classify and secure sensitive data on Windows file servers, EMC storage devices and NetApp filer appliances, and SharePoint sites.

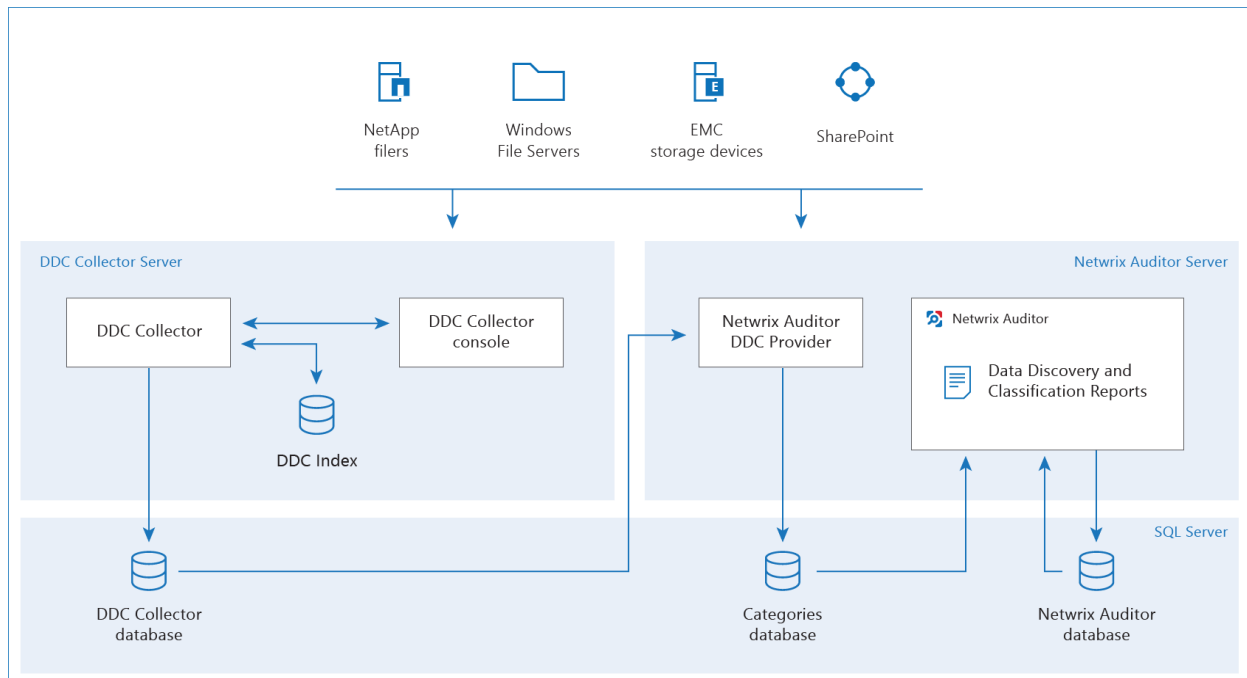
Major benefits:

- Gain a high-level view of the sensitive data you store
- Discover sensitive data stored outside of a secure dedicated location
- Streamline regular attestations of access rights to sensitive data
- Detect unauthorized activity that might threaten your sensitive data

Looking for real-life use cases and walk through examples? Check out Netwrix training materials. Go the [Data Remediation Workflows](#) page on Netwrix website.

2.1. How It Works

The following diagram illustrates the data flows in a typical deployment of Netwrix Auditor Data Discovery and Classification:



The **DDC Collector** is a data discovery and classification service that runs on a dedicated server. It scans your various file repositories for supported file content, stores the raw text in the **DDC Index** and indexes that content. It classifies the indexed file content by matching it against predefined third-party taxonomies (rules and patterns for finding, for example, personal data governed by the GDPR or medical records governed by HIPAA) and any custom taxonomies you create. It stores the resulting document classifications in the DDC Collector database. You use the DDC Collector console to monitor and control the DDC Collector service, as well as to select, create, modify and manage taxonomies.

Meanwhile, the DDC Provider service runs on the **Netrix Auditor Server**. It reads the classification results from the **DDC Collector database** and translates the **DDC Collector taxonomy** format into the **Netrix Auditor category** format the resulting list of objects and their categories is periodically transferred to the **Categories** database.

Netrix Auditor merges data from the **Categories** database and other Netrix Auditor databases (such as the file server State-in-Time database) to generate the **reports** you request.

2.2. PoC Planning

For PoC, evaluation, or testing purposes (up to 100 K files) you can run all components on the same machine. Minimal configuration:

- **Processor**—3 cores
- **RAM**—12 GB
- **SQL Server Edition**—2008 R2 Express Edition and above

If you plan to deploy in bigger environments, consider the following considerations and restrictions:

- DDC Collector [Requirements to Install DDC Collector](#)
- Netwrix Auditor [Requirements](#)
- [Netwrix Auditor Data Discovery and Classification Deployment Matrix](#)

3. DDC Collector

DDC Collector is a web-based configuration module designed to discover potentially sensitive documents and directories and classify them according to specific taxonomy clues.

3.1. Compatibility Notice

Make sure to check your Netwrix Auditor version.

| Data source | Netwrix Auditor version |
|---|----------------------------|
| <ul style="list-style-type: none">• File Servers• EMC• NetApp | 9.5 (build 2591) and later |
| <ul style="list-style-type: none">• SharePoint | 9.8 and later |

3.2. Requirements to Install DDC Collector

This section contains the hardware and software requirements to flawlessly install DDC Collector.

Review the following for additional information:

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

3.2.1. Supported Data Sources

The table below lists systems that can be monitored with Netwrix Auditor Data Discovery and Classification:

| Data source | Supported Versions |
|----------------------|--|
| Windows File Servers | <ul style="list-style-type: none">• Windows Server OS:<ul style="list-style-type: none">• Windows Server 2019• Windows Server 2016• Windows Server 2012/2012 R2• Windows Server 2008 R2 |

| Data source | Supported Versions |
|-------------|--|
| | <ul style="list-style-type: none"> Windows Server 2008 SP2 (32 and 64-bit) Windows Desktop OS (32 and 64-bit): <ul style="list-style-type: none"> Windows 10 Windows 8.1 Windows 7 |
| 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, 8.0.0.0 , 8.1.0.0 (CIFS configuration only) |
| NetApp | <ul style="list-style-type: none"> NetApp ONTAP 9.0 – 9.5 (CIFS configuration only) NetApp Clustered Data ONTAP 8.2.1 – 8.2.3, 8.3, 8.3.1, 8.3.2 (CIFS configuration only) NetApp Data ONTAP 8 in 7-mode (CIFS configuration only) NetApp Data ONTAP 7 (CIFS configuration only) |
| SharePoint | <ul style="list-style-type: none"> Microsoft SharePoint Server 2019 Microsoft SharePoint Server 2016 Microsoft SharePoint Foundation 2013 and SharePoint Server 2013 Microsoft SharePoint Foundation 2010 and SharePoint Server 2010 |

3.2.2. Hardware Requirements

Netwrix strongly recommends installing DDC Collector apart from Netwrix Auditor. Review the hardware requirements for the computer where DDC Collector is going to be installed.

You can deploy DDC Collector on a virtual machine running Microsoft Windows guest OS on the corresponding virtualization platform, in particular:

- VMware vSphere
- Microsoft Hyper-V
- Nutanix AHV

Note that DDC Collector supports only Windows OS versions listed in the [Software Requirements](#) section.

| Hardware Component | Minimum requirements | | Large environment (up to 8 m objects for File Servers and up to 2 m objects for SharePoint) | | XLarge environment (up to 32 m objects and up to 8 m objects for SharePoint) | |
|--------------------|----------------------|----------------|--|------------|---|------------|
| | DDC Collector | SQL Server | DDC Collector | SQL Server | DDC Collector | SQL Server |
| Processor | Any modern | Any multi-core | 4 cores | 8 cores | 4 cores* | 8 cores |
| RAM | 8 GB | 16 GB | 16 GB | 64 GB | 16 GB* | 128 GB |

NOTE: When planning your deployment, consider the following:

- Document throughput and processing results are overly dependent on types and amount of documents you are going to process with Netwrix Auditor Data Discovery and Classification.
- Hardware requirements for SQL Servers listed in the table above apply to each SQL Server instance in your configuration separately.
- The requirements marked with an asterisk (*) apply to a single server. To estimate total hardware requirements, multiply the values above to a number of your nodes. See [Distributed Query Server Mode](#) for more information.
- For XLarge environments, each SQL Server instance must be deployed to a separate physical disk.

3.2.2.1. Distributed Query Server Mode

The **Distributed Query Server (DQS)** mode allows re-balancing load while collection, indexing and classification. The load is distributed evenly over all enabled DDC Collector instances that allows processing large data volumes:

- **File Servers**—Up to 32 m objects per cluster of 4 servers.
- **SharePoint**—Up to 8 m objects per cluster of 4 servers.

General procedure is as follows:

- Install the first DDC Collector instance where you are going to enable DQS mode.
- Install other DDC Collector instances.
- Enable DQS mode on the first instance.
- Add servers to the Distributed Query Servers list.
- Re-collect data sources.

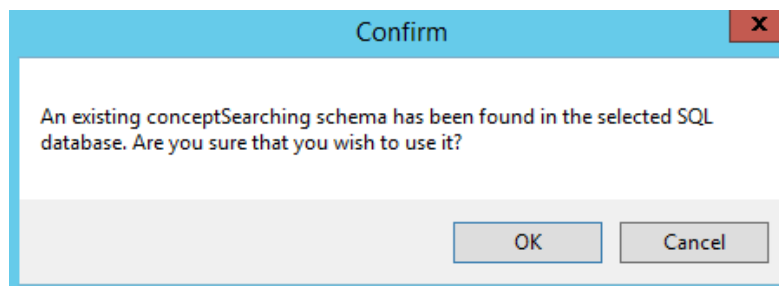
Refer to [To enable DQS Mode](#) for detailed instructions on how to re-balance load to your system.

To enable DQS Mode

Recommendations below refer to clear install of DDC Collector in extra-large environment. If you upgraded from the previous version, perform steps 6 - 18.

1. Prepare machines for SQL Server instances where DDC Collector database and Netwrix Auditor (including Categories) databases reside. Consider the following recommendations:
 - Each SQL Server instance must be deployed to a separate physical disk.
 - For better performance, deploy both SQL Server instances to dedicated SSD storages. The configuration where one of the SQL Server instances runs on HDD is acceptable, but not recommended. Using HDD for all instances lead to performance loss and long report generation.
2. Create and configure **DDC Collector database** as described in the [DDC Collector Database](#) section.
3. Prepare server to install DDC Collector. Meet the [XLarge environment \(up to 32 m objects and up to 8 m objects for SharePoint\)](#) hardware requirements and general [Software Requirements](#).
4. Install and configure DDC Collector as described in the [Install DDC Collector](#) section.
5. Add license.
6. Prepare servers to install other DDC Collector instances assuming one server per one instance. Each server must meet the [XLarge environment \(up to 32 m objects\)](#) hardware requirements and general [Software Requirements](#).
7. Copy the **Netwrix_Auditor_DDC_Collector.exe** file to the server considered to be the next DDC Collector instance.
8. Run installation package.
9. Proceed with installation as described in the [Install DDC Collector](#) section until **SQL Database** configuration.
10. On the **SQL Database** step, provide the name of the SQL Server instance that hosts **DDC Collector database** you configured on the step 2.

NOTE: Ignore the confirmation dialog on the existing schema in the selected SQL database.



11. Complete the installation.
12. Repeat the steps 7 - 11 for each successive DDC Collector instance.
13. Add license.

- 14. On the computer where the first DDC Collector instance installed, open DDC Collector console.
- 15. Navigate to **Config** → **Utilities** → **DQS**.
- 16. Select **Enable DQS**.

NOTE: Once DQS mode enabled you cannot roll back your configuration. Netwrix strongly recommends to ensure that you took a full backup of your environment.

- 17. On the **DQS** tab, click **Add** to add servers you prepared on the step 6 one by one.



Complete the following fields:

| Option | Description |
|-------------------|--|
| Server | Provide server name. NOTE: FQDN format is not supported, use the NetBIOS name. |
| QS Path | Substituted automatically after adding server name. |
| Active | Select to enable the instance. |
| Alternate Server | Netwrix recommends using default values. |
| Alternate QS Path | Netwrix recommends using default values. |

- 18. Review the list of DQS servers. For example:

Netrix Auditor Data Discovery and Classification 5.4.7.5

Sources Taxonomies **Config** Users Reports Dashboard Help

Settings Utilities

Application Log
Backup/Restore
Cleaner
DQS
Search Log
Show User
Stem Test
Taxonomy Converter

DQS

Information

The Distributed Query Server (DQS) is a component of conceptClassifier that allows an index to be distributed across multiple servers.

A distributed index means that there are multiple servers running the Collector, Indexer, Classifier, and QueryServer applications - each with its own set of ".cse" files. All servers share a single SQL database.

Please note:

- Each server can only run one set of Windows Services
- The server name should be specified in the NETBIOS format (case insensitive)
- The QS Path specified should be a direct connection to the server in question (i.e. not a load balanced address for the cluster)
- The server should be set to "Active" to be considered part of the cluster
- All servers that you wish to run the Windows Services on should be specified within the DQS list

| ID | Status | Load | Server | QS Path | Alternate Server | Alternate QS Path | |
|----|--------|------|----------|--|------------------|-------------------|----------------------|
| 1 | Active | 0% | FM-DDC-2 | http://FM-DDC-2/conceptQS/conceptQS.asmx | | | Test Edit Delete |
| 2 | Active | 0% | fm-ddc-4 | http://fm-ddc-4/conceptQS/conceptQS.asmx | | | Test Edit Delete |
| 3 | Active | 0% | fm-ddc-5 | http://fm-ddc-5/conceptQS/conceptQS.asmx | | | Test Edit Delete |
| 4 | Active | 0% | fm-ddc-3 | http://fm-ddc-3/conceptQS/conceptQS.asmx | | | Test Edit Delete |

Showing 4 record(s) Page Size: 10 | 25 | 50 | 100 | 200

- When prompted, re-collect data sources to re-distribute the content across all of the configured servers.
- You can review system health and services dashboards to check your configuration. See [Review Dashboard](#) for more information.

3.2.3. Software Requirements

The table below lists the software requirements for the DDC Collector installation:

| Component | Requirements |
|------------------|---|
| Operating system | Windows 2012 R2 and above Server Operating System Software. |
| Windows Features | <div>Web Server Role (IIS)</div> <div> <div>Common HTTP Features</div> <ul style="list-style-type: none"> Default Document HTTP Errors Static Content HTTP Redirection </div> <div> <div>Security</div> <ul style="list-style-type: none"> Windows Authentication Anonymous Authentication </div> |

NOTE: The **Anonymous Authentication** element is included in the default installation of IIS 7. Make sure

| Component | Requirements |
|--------------------|--|
| | you use IIS 7 and above. |
| Application | <ul style="list-style-type: none"> ISAPI Extensions |
| Development | <ul style="list-style-type: none"> ISAPI Filters |
| Other features | |
| .NET Framework 4.6 | <ul style="list-style-type: none"> .NET Framework 4.6 |
| Features | <ul style="list-style-type: none"> ASP.NET 4.6 |
| WCF Services | <ul style="list-style-type: none"> HTTP Activation |
| SQL Server | <ul style="list-style-type: none"> SQL Server 2008 R2 Standard Edition (or later). <p>NOTE: Required for DDC Collector database. See DDC Collector Database for more information.</p> <p>For better performance, Netwrix recommends using SQL Server 2016 SP2. For earlier versions of SQL Server, consider Microsoft Recommendations to reduce allocation contention in SQL Server tempdb database if you are going to review the "Most Exposed Sensitive Data Objects" report.</p> |
| Microsoft IFilters | <ul style="list-style-type: none"> Microsoft Office 2010 Filter Packs and above, 64-x edition. |
| Visual Studio | <ul style="list-style-type: none"> Visual C++ Redistributable Packages for Visual Studio 2015 and above. |

3.2.3.1. DDC Collector Database

DDC Collector uses Microsoft SQL Server database as data storage. You need to create a dedicated **DDC Collector database** on your SQL Server instance and configure it as shown below for the product to function properly. You can create the database manually—Using SQL Server Management Studio or Transact-SQL. Refer to the following Microsoft article for detailed instructions on how to create a new database: [Create a Database](#).

NOTE: For performance purposes, Netwrix strongly recommends to separate DDC Collector and SQL Server machine.

To configure the DDC Collector database

NOTE: The account used to create the DDC Collector database must be granted the **dbcreator** server-level role.

1. On the computer where SQL Server instance with the **DDC Collector database** resides, navigate to **Start → All Programs → Microsoft SQL Server → SQL Server Management Studio**.
2. Connect to the server.
3. Locate the **DDC_Collector_Database**, right-click it and select **Properties**.
4. Select the **Files** page and set the **Initial Size (MB)** parameter for PRIMARY file group to **512 MB**.
5. Click **Expand** next to **PRIMARY** file group and set **Autogrowth / Maxsize** as follows:

| Option | Description |
|-------------------|--|
| File Growth | <ul style="list-style-type: none">• Recommended—128 MB.• Large environment— 512 MB. |
| Maximum File Size | Select Unlimited . |

6. Go to **Options** page and make sure that the **Recovery model** parameter is set to "*Simple*".

3.3. Install DDC Collector

NOTE: DDC Collector uses Microsoft SQL Server database as data storage. You need to create and configure the dedicated DDC Collector database on your SQL Server instance. Check that the database has been created prior to installation. Refer to [DDC Collector Database](#) for detailed instructions on how to configure the database.

1. Run **Netwrix_Auditor_DDC_Collector.exe**.
2. Review minimum system requirements and then read the License Agreement. Click **Next**.
3. Follow the instructions of the setup wizard. When prompted, accept the license agreement.
4. On the **Product Settings** step, specify path to install DDC Collector. For example, *C:\Program Files\DDC*.
5. On the **Configuration** step, specify the directory where **Index files** reside. For example, *C:\Program Files\DDC\Index*.
6. On the **SQL Database** step, provide SQL Server database connection details.

Complete the following fields:

| Option | Description |
|-----------------------|--|
| Server Name | Provide the name of the SQL Server instance that hosts your DDC Collector database. For example, "WORKSTATIONSQL\SQLSERVER". |
| Authentication Method | Select Windows or SQL Server authentication method. |
| Username | Specify the account name. |
| Password | Provide your password. |
| Database Name | Enter the name of the SQL Server database. Netwrix recommends using DDC Collector database name. See Software Requirements for more information. |

NOTE: The database is created automatically in basic configuration mode. For recommended configuration (required for crawling optimization in large and extra-large environments), refer to [DDC Collector Database](#) section.

7. On the **Licensing** step, add license. You can add license as follows:
 - Click the **Import** button and browse for you license file

OR

- Open your license file with any text editor, e.g., **Notepad** and paste the license text to the **License** field.
8. On the **Administration Web Application** step, review default IIS configuration.
 9. On the **Services** step, configure DDC Collector services:
 - Select all services to be installed.
 - **File System Path**—Provide a path to store DDC Collector's Services files. For example, *C:\Program Files\DDC Services*.
 - Provide user name and password for the product services service account.
- NOTE:** This account is granted the **Logon as a service** privilege automatically on the computer where DDC Collector is going to be installed.
- Select additional service options, if necessary.
10. On the **Pre-Installation Tasks and Checks** step, review your configuration and select **Install**.
 11. When the installation completes, open a web browser and navigate to the following URL: *http://localhost/conceptQS* where **localhost** is the name or IP address of the computer where DDC Collector is installed. For example, *http://workstationddc/conceptQS*.

3.4. Upgrade to the Latest Version

Netwrix recommends that you upgrade from the older versions of Netwrix Auditor to the latest version available in order to take advantage of the new features.

This section lists steps required to upgrade DDC Collector to the latest version. Review the following for additional information:

- [To take preparatory steps](#)
- [To perform upgrade](#)

To take preparatory steps

1. Check that the account under which you plan to run the setup has **local Administrator** rights.
2. Back up **DDC_Collector_Database** database. For that:
 - a. Start Microsoft SQL Server Management Studio and connect to SQL Server instance hosting the database.
 - b. In **Object Explorer**, right-click **DDC_Collector_Database** database and select **Tasks** → **Back Up**.
 - c. Wait for the process to complete.
3. Stop the following product services:

- `conceptCollector`
- `conceptIndexer`
- `conceptClassifier`

4. Finally, close Netwrix Auditor console.

To perform upgrade

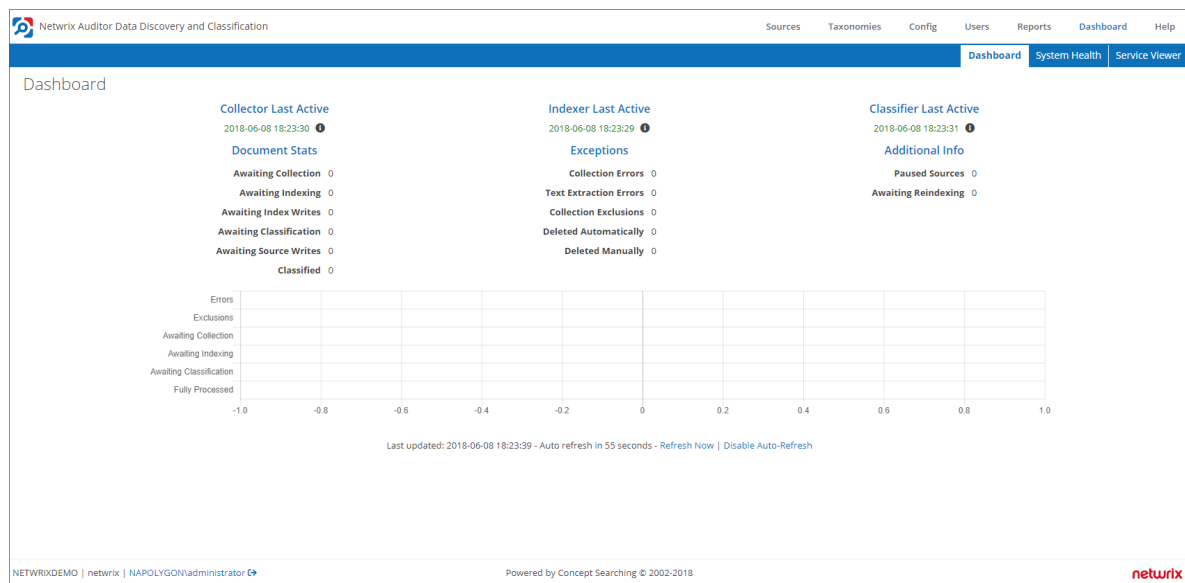
1. Run the DDC Collector installation package.
2. On the **Installation Type** step, select the Upgrade option.
3. Install DDC Collector as described in the [Install DDC Collector](#) section.

3.5. Configure DDC Collector

This section contains basic procedures to configure DDC Collector to process your sensitive data. To start configuration procedures, launch DDC Collector console. DDC Collector console is the web-based multitasking console to work with DDC Collector.

To start DDC Collector console

1. In your web browser, navigate to the following URL: `http://hostname/conceptQS` where **hostname** is the name or IP address of the computer where DDC Collector is installed.
2. In the **Instance Details** dialog, enter the unique name for your DDC Collector instance. For example, **Netwrix DDC**. The following window appears:



Review the following for additional information:

- [Secure Your Data](#)
- [Add Taxonomy](#)
- [Add Content Sources](#)
- [Review Dashboard](#)
- [Enable Optical Character Recognition](#)

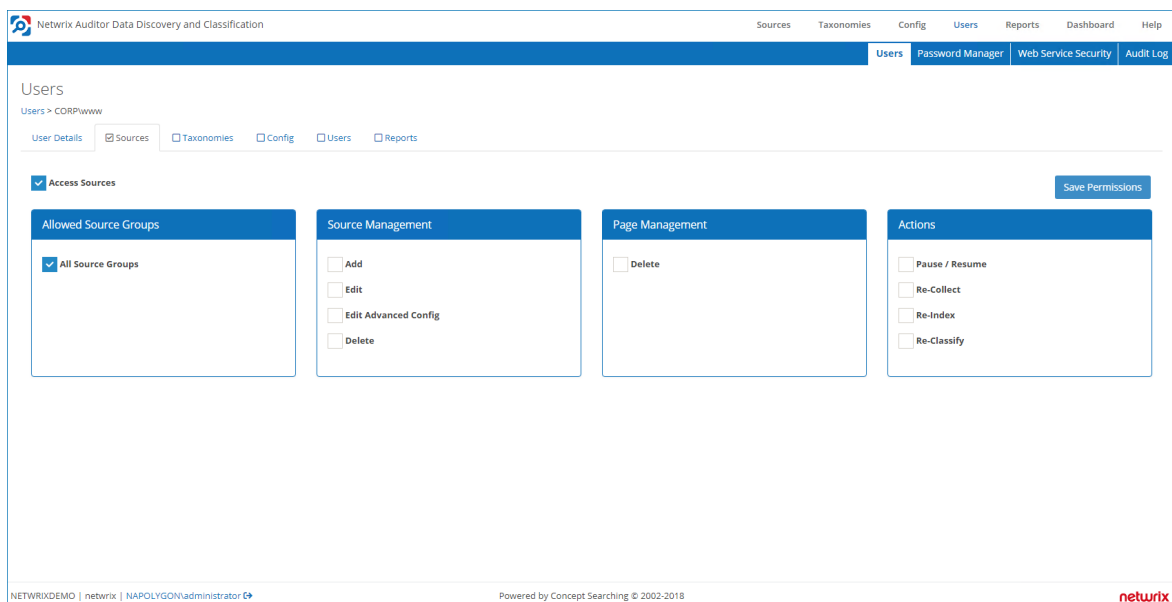
3.5.1. Secure Your Data

Security and awareness of *who* has access to *what* is crucial for every organization. Besides notifying you on who changed *what*, *when* and *where*, and *who* has access to what in your IT infrastructure, Netwrix pays attention to safety of its own configuration and collected data.

Out of the box, you are assigned the *"Super User"* role in DDC Collector console. If you want to provide access to several tabs of DDC Collector console to other users, do the following:

1. In DDC Collector console, navigate to **Sources** → *"file share or folder"* and unselect the **Anonymous Access** checkbox.
2. Navigate to **Users** → **Add** → **Validate** to add a new user.

| To... | Do... |
|---|--|
| Add Super User | <p>Select the Super User checkbox.</p> <p>The first user you add will be assigned the <i>"Super User"</i> role and he or she will have unrestricted rights in DDC Collector console. Consider to add verified user first.</p> |
| Restrict access to DDC Collector console components | <p>In the Users tab, select DDC Collector components available for this user:</p> <ul style="list-style-type: none"> • Sources • Taxonomies • Config • Users • Reports <p>Configure granular permissions for the user, if needed.</p> |



3.5.2. Add Taxonomy

Taxonomy is set of parameters to subsume concept of information for purpose of capture, management and presentation. For your convenience, DDC Collector comes with the following predefined taxonomies:

1. Personally identifiable information covering GDPR scope.
2. Medical records covering HIPAA scope.
3. Financial records and payment cards information covering GLBA and PCI DSS scope.

Each taxonomy contains a set of terms. Terms are defined by set of configuration rules (Clues). The most common clue types are the following:

- **Standard**—A single word or multi-word concept. Matched on a fuzzy basis with word stemming enabled. Use quotes around single words to disable stemming. Use double quotes around phrases to invoke exact phrase matching.
- **Case Sensitive**—A case sensitive phrase match clue.
- **RegEx**—A clue based on a Regular Expression.

For the full list of supported taxonomies, refer to [Built-in Taxonomies](#).

Review the following for additional information:

- [To upload default taxonomy](#)
- [To add custom taxonomy](#)
- [To manage taxonomies](#)

To upload default taxonomy

1. In DDC Collector console, navigate to **Taxonomies** → **Global Settings**.
2. Navigate to **Loaded Taxonomies**, select **Add Taxonomies**.
3. Select taxonomies that you want to add in the list.

NOTE: Multiple taxonomies selection supported. Clicking the search field enables drop-down list of default taxonomies.

4. Click **Load**.

To add custom taxonomy

1. In DDC Collector console, navigate to **Taxonomies** → **Global Settings**.
2. Navigate to **Loaded Taxonomies**, select **Add Taxonomies**.
3. Select the **Load XML file to SQL** option to import an XML file directly into the DDC Collector console; large taxonomies will be imported by the background services.

4. Browse for your custom taxonomy file.
5. Select **Upload**.

To manage taxonomies

1. In DDC Collector console, navigate to **Taxonomies** and locate the taxonomy that you want to manage.

NOTE: If your taxonomy does not have any terms yet, right-click the taxonomy and select **Add Child Term**. Specify one or several child terms—one term per line.

2. Expand the taxonomy and locate the desired term on the left pane. Review the following for additional information:

| To... | Do... |
|--|---|
| Review predefined clues | Navigate to the Clues tab and review available default clues. Clues are used to describe the language found in documents that make them about a particular topic. |
| Add automatically suggested clues | <ol style="list-style-type: none"> 1. Navigate to the Suggest tab and click Suggest to add new clues. 2. A score is suggested automatically for the clue, you can change its type. |
| Search collected and classified files | <ol style="list-style-type: none"> 1. Navigate to the Search tab and enter search criteria in the Find field. 2. Click Search to view search results. |
| Review all files matching the taxonomy | <ol style="list-style-type: none"> 1. Navigate to the Browse tab and review the list of files matching the selected taxonomy. 2. Select a file and click Calculations link to see how the classification scores are calculated. |

3.5.3. Add Content Sources

Content sources are logical containers for external systems (SharePoint and File Servers) to be crawled and classified. All your content sources are listed in the **Sources** section.

To add a content source

1. In DDC Collector console, navigate to **Sources** → **Add** and select one of the following:
 - **Folder**—Select if you want to monitor Windows File Servers, NetApp Filer or EMC Storage.
 - **SharePoint**—Select if you want to monitor SharePoint farm.
2. Complete the following fields:

| Option | Description |
|--------|-------------|
|--------|-------------|

Folder

NOTE: Click **Settings** in the at the bottom of the dialog to expand advanced settings.

| | |
|------------------------|--|
| Folders | Enter the UNC path of the root folder where collection is to start. You can add either windows directories, or NetApp filer or EMC storage devices, to the index. NOTE: Multiple folders selection supported. Specify equal UNC paths for both: in Netwrix Auditor and DDC Collector. Any actions made over data sources configured in different way or locally (e.g., "C:\") are out of scope. Otherwise, you need to map to the same server location and then restart the DDC Provider service. |
| Username | Specify the account used to process the folder. NOTE: It is recommended to create a dedicated account for this purpose and specify it here. This will, in particular, simplify filtering file crawling activity (<i>read</i> operations) by the service account name when reporting on file and folder access. To read more about configuring exclusions for Netwrix Auditor reports, refer to Configure Data Sources in Netwrix Auditor section. |
| Password | Provide a password for the account specified above. |
| Depth Limit | Select if you want to process data in sub-folders and set depth limit. |
| Text Patterns | Netwrix recommends using default values. |
| Allow anonymous access | This option is used to disable security filtering for selected sources. If unselected, the indexing processes will collect Windows Access Control |

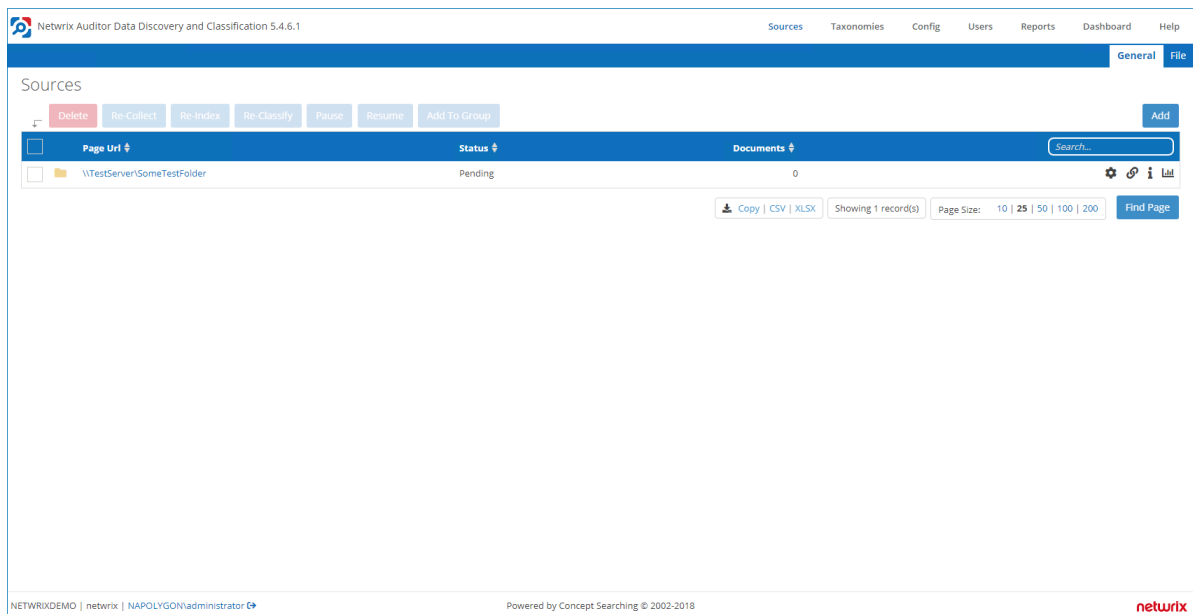
| Option | Description |
|-----------------------------|--|
| | <p>Lists (ACLs) for the files and search results will be filtered based upon the end user's Windows identity.</p> <p>Netwrix recommends unselect this option. See Secure Your Data for more information.</p> |
| Duplicate Detection Enabled | Select to exclude documents that contain the same text content from the index. |
| Write classifications | Netwrix recommends using default values. |
| Re-Index Period | Specifies how often the source should be checked for changes. Netwrix recommends using default values. |
| Priority | Netwrix recommends using default values. |
| Max Collector Retries | Netwrix recommends using default values. |
| Document Type | Specify a value that can be used to restrict queries when utilising the DDC Collector search index. |
| Source Group | Netwrix recommends using default values. |

SharePoint

| | |
|-----------------------|---|
| URL | <p>Enter the SharePoint Site Collection URL.</p> <p>NOTE: Multiple farms selection supported. List your SharePoint Site Collection URLs line by line, for example, in Notepad. Copy the list and paste it to the URL field.</p> <p>Specify equal URLs for both: in Netwrix Auditor and DDC Collector.</p> |
| Username | Specify the account used to connect to a SharePoint farm. |
| Password | Provide a password for the account specified above. |
| Write classifications | Netwrix recommends using default values. |
| Source Group | Netwrix recommends using default values. |

| Option | Description | | |
|-----------------------|-------------|--|--|
| Pause source creation | on | Netwrix recommends using default values. | |

3. Select **Index Folder** to start indexing process. You will see an information popup window on successful indexing.



3.5.4. Review Dashboard

Upon data classification completion, check your files processing progress. In DDC Collector console, navigate to the **Dashboards** section.

The default screen (Dashboard) shows a high level overview of Netwrix Auditor Data Discovery and Classification service statistics. You can review all processing stages of every component:

- Collector
- Indexer
- Classifier

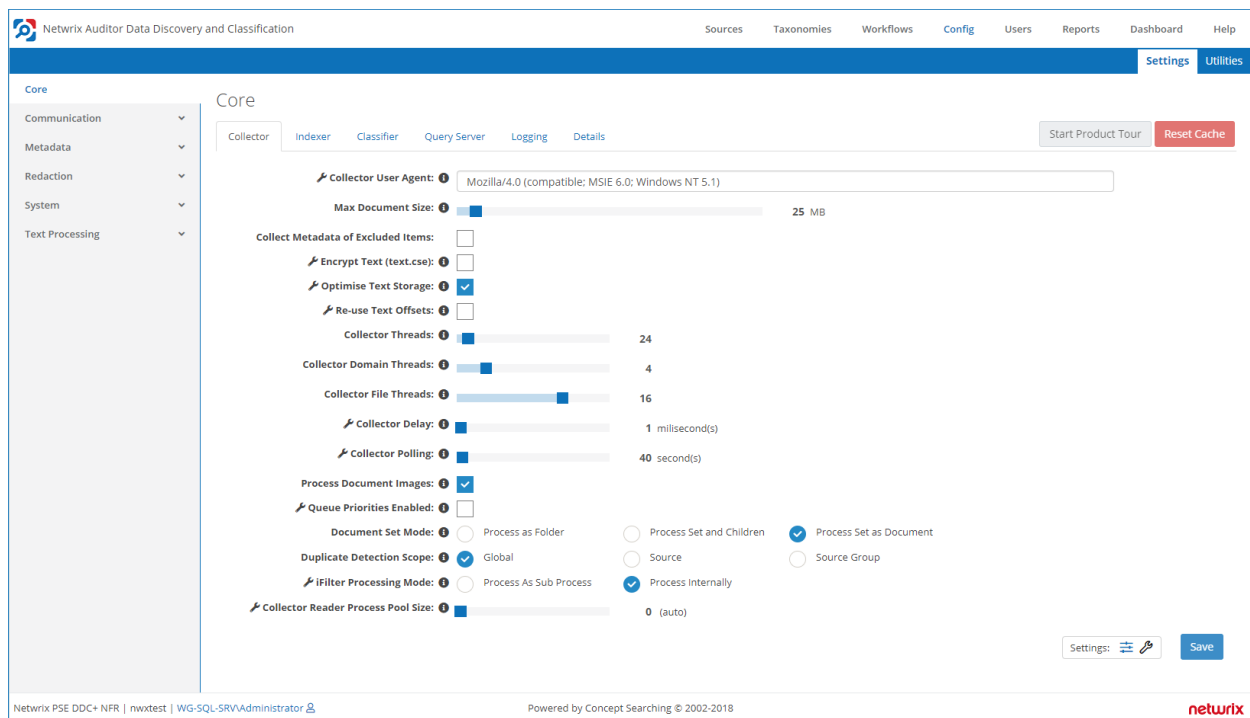
For the full list of the potential issues, refer to [System Health and Troubleshooting](#)

3.5.5. Enable Optical Character Recognition

Optical Character Recognition, or OCR, is a technology that enables you to convert different types of files, such as stand-alone images, PDF files and Microsoft Office documents with integrated images into discoverable data. By default, this option is disabled to avoid loss of performance.

Out of the box, DDC Collector processes JPEG, png, TIFF, and Bitmap images. For the full list of supported content types, refer to [Supported Content Types](#) section. If you want to enable OCR, configure the product as follows:

| To... | Do... |
|--|--|
| Recognize stand-alone images | <p>Do the following to enable OCR for image files having specific extension:</p> <ol style="list-style-type: none"> 1. In DDC Collector console, navigate to Sources → File. 2. Select Files Included on the left. 3. Click Add Inclusion on the right pane to add desired extension. |
| Recognize documents with integrated images | <ol style="list-style-type: none"> 1. In DDC Collector console, navigate to Config → Settings → Core → Collector. 2. Select the Process Document Images option. |



The settings will be applied in an hour after configuration. If you want to start process images and documents earlier, navigate to the **Services** snap-in and restart the following services:

- conceptIndexer
- ConceptCollector
- conceptClassifier

NOTE: Make sure that DDC Collector does not process any files, otherwise service restart may fail data classification process.

4. Configure Data Sources in Netwrix Auditor

To see your sensitive data in Data Discovery and Classification reports, you need to create a monitoring plan in Netwrix Auditor and configure data sources. The following data sources are available:

- Windows File Servers
- EMC
- NetApp
- SharePoint

Check your monitoring plan and items:

| Option | Description |
|--------|-------------|
|--------|-------------|

File Servers

| | |
|--------------------|--|
| Item | <p>Specify file shares that you want to process with DDC Collector.</p> <p>NOTE: Specify equal UNC paths for both: item in Netwrix Auditor and DDC Collector. Any actions made over data sources configured in different way or locally (e.g., "C:\") are out of scope. Otherwise, you need to map to the same server location and then restart the DDC Provider service.</p> |
| Additional options | <ol style="list-style-type: none">1. Enable the Collect data for state-in-time reports option for each item that you want to process.2. Enable the Include details on effective permissions option to review the following reports:<ul style="list-style-type: none">• Most Accessible Sensitive Files and Folders• Overexposed Files and Folders• Sensitive Folder and File Permission Details |

Option

Description

SharePoint

Item

Specify SharePoint farm— Enter the SharePoint Central Administration website URL.

NOTE: Specify equal URL for both: item in Netwrix Auditor and DDC Collector.

Additional options

Enable the **Collect data for state-in-time reports** option for each item that you want to process.

NOTE: Refer to the [Create a New Plan](#) section in **Netwrix Auditor Online Help Center** for detailed instructions on how to create a new monitoring plan.

When DDC Collector processes ("crawls") specified files and folders, it performs *read* operation under the dedicated DDC Collector account (described in the [Add Content Sources](#) section). Netwrix Auditor that monitors your file storage system (Windows File Server, NetApp Filer or EMC Storage) or SharePoint farm, will report these *read* operations by default. To avoid this excessive reporting, it is recommended to include the dedicated DDC Collector account and its *read* operations in the *omitreportlist.txt* and *omitstorelist.txt* files for Netwrix Auditor. Review the following for additional information:

- [Exclude Data from File Servers Monitoring Scope](#)
- [Exclude Data from SharePoint Monitoring Scope](#)

5. DDC Provider

DDC Provider is the integration module used to aggregate data inventory, access permissions, activity and classification information into a single reporting database for Netwrix Data Discovery and Classification reports.

5.1. Hardware and Software Requirements

DDC Provider and Netwrix Auditor must be installed on the same computer. Refer to the [Requirements to Install Netwrix Auditor](#) section in **Netwrix Auditor Online Help Center** for detailed list of hardware and software requirements.

NOTE: If you plan to use Microsoft SQL Server 2016, make sure it has SP2 installed.

5.2. Account Requirements

This section lists the requirements for the accounts used by DDC Provider. The accounts must be granted the following rights and permissions:

- A member of the **local Administrators** group on the computer where Netwrix Auditor Server and DDC Provider are installed.
- The **Database datareader** server role must be assigned to the account on the SQL Server instance where the **DDC Collector database** resides.

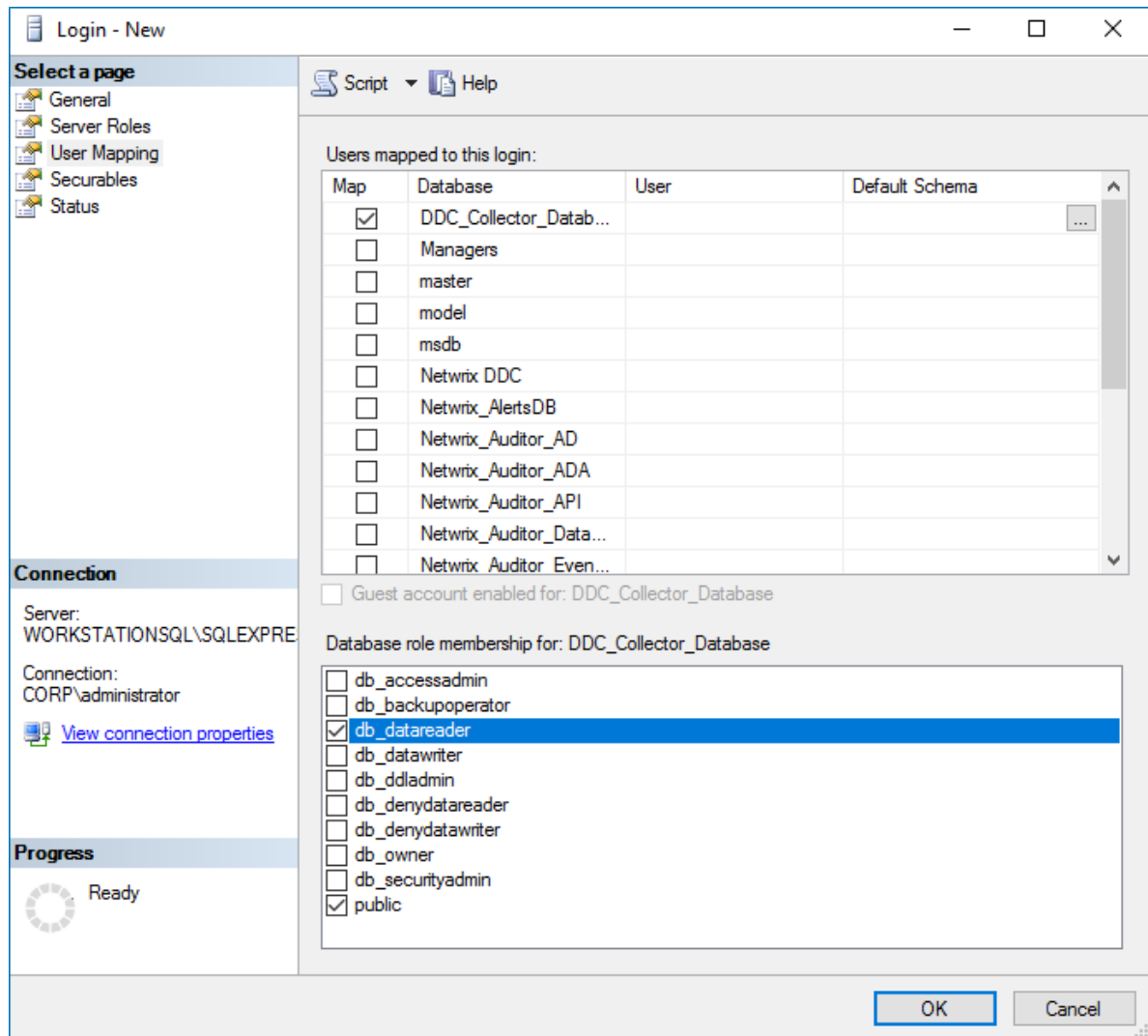
NOTE: Netwrix recommends using different accounts to connect to the SQL Server instances where **DDC Collector database** and **Categories database** reside.

Review the following for additional information:

- [To assign the Database datareader server role](#)

To assign the Database datareader server role


1. On the computer where SQL Server instance with **DDC_Collector_Database** resides, navigate to **Start → All Programs → Microsoft SQL Server → SQL Server Management Studio**.
2. Connect to the server.
3. In the left pane, expand the **Security** node. Right-click the **Logins** node and select **New Login** from the pop-up menu.



4. Select **User mapping** on the left and select the **DDC_Collector_database** for which you want to assign the role.
5. In the **Database role membership for: DDC_Collector_database** list, select the **db_datareader** role.

5.3. Enable and Configure DDC Provider

1. On the computer where Netrix Auditor is installed, navigate to *Netrix Auditor installation folder\AuditIntelligence* (by default, Netrix Auditor is installed to *C:\Program Files (x86)\Netrix Auditor*) and run the **DDCConfiguration** tool.
2. Complete the fields as shown below:



Netrix Auditor DDC Configuration

Data Discovery and Classification Provider submits the results of data collection and classification to Netrix Auditor for reporting. Turn it on and specify settings it will use to access DDC Collector database.

Enable DDC Provider

SQL Server instance:

WORKSTATIONSQ\SQLSERVER

Database:

DDC_Collector_database

Authentication:

Windows authentication

User name:

corp\administrator


Password:

.....

Save

Close

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| Option | | Description |
|---------------------|--------|---|
| Enable DDC Provider | DDC | Starts the Netrix Auditor DDC Provider service and changes it's Startup Type to <i>"Automatic"</i> . |
| SQL instance | Server | Provide the name of the SQL Server where DDC Collector database resides (e.g., <i>WORKSTATIONSQ\SQLEXPRESS</i> for <i>SQLEXPRESS</i> instance). See DDC Collector Database for more information. |
| Database | | Provide the name of the database you created for DDC Collector. |
| Authentication | | Select Windows or SQL Server authentication method to connect to DDC Collector database . |
| User name | | Specify the account to be used to connect to the SQL Server instance. |
| Password | | Provide password for the account. |

3. Click **Save** to save your configuration.

NOTE: Mind that DDC Provider is a part of Netrix Auditor Data Discovery and Classification. For the solution to function properly, install and configure DDC Collector as described in the [DDC Collector](#) section.

If you have any issues while using DDC Provider, See [System Health and Troubleshooting](#) for more information.

5.4. Upgrade to the Latest Version

Netwrix recommends that you upgrade from the older versions of Netwrix Auditor to the latest version available in order to take advantage of the new features.

This section lists steps required to upgrade DDC Provider to the latest version. Review the following for additional information:

- [To take preparatory steps](#)
- [To perform upgrade](#)

To take preparatory steps

1. Check that the account under which you plan to run the setup has **local Administrator** rights.
2. Back up **Categories** database. For that:
 - a. Start Microsoft SQL Server Management Studio and connect to SQL Server instance hosting the database.
 - b. In **Object Explorer**, right-click **Categories** database and select **Tasks** → **Back Up**.
 - c. Wait for the process to complete.
3. Stop the following product services:
 - **conceptCollector**
 - **conceptIndexer**
 - **conceptClassifier**
4. Finally, close Netwrix Auditor console.

To perform upgrade

You can upgrade DDC Provider by running the Netwrix Auditor installation package.

6. Review Data Discovery and Classification Reports

Looking for real-life use cases and walk through examples? Check out Netwrix training materials. Go the [Data Discovery and Classification Reports](#) page on Netwrix website.

NOTE: Re-open Netwrix Auditor after DDC Provider installation.

In Netwrix Auditor, navigate to **Reports** → and select a report you are interested in and click **View**.

Data Discovery and Classification reports grouped by data sources.

The table below lists the reports available for Data Discovery and Classification:

| Report | Description |
|---|---|
| <h3>File Servers</h3> | |
| Activity reports | |
| Activity Related to Sensitive Files and Folders | This report lists all access attempts to files and folders that contain certain categories of sensitive data at the moment. |
| State-in-time reports | |
| Most Accessible Sensitive Files and Folders | This report shows the number of users that effectively have access to sensitive files or folders, sorted in descending order. Use this report to identify data at high risk and plan for corrective actions accordingly. |
| Overexposed Files and Folders | This report shows sensitive files and folders accessible by the specified users or groups, based on the combination of folder and share permissions. Use this report to identify data at high risk and plan for corrective actions accordingly. |
| Sensitive Files and Folders by Owner | This report shows ownership of files and folders that are stored in the specified file share and contain selected categories of sensitive data. Use this report to determine the owners of particular sensitive data. |
| Files and Folders Categories by | This report shows files and folders that contain specific categories of sensitive data. Use this report to see whether a specific file or folder contains sensitive data. |

| Report | Description |
|---|---|
| Object | |
| Sensitive Files Count by Source | This report shows the number of files that contain specific categories of sensitive data. Use this report to estimate amount of your sensitive data in each category, plan for data protection measures and control their implementation. |
| Sensitive File and Folder Permissions Details | This report shows permissions granted on files and folders that contain certain categories of sensitive data. Use this report to see who has access to a particular file or folder, via either group membership or direct assignment. Reveal sensitive content that has permissions different from the parent folder. |

SharePoint

Activity reports

| | |
|--|---|
| Activity Related to Sensitive Data Objects | This report shows changes and read operations on SharePoint sites and documents that contain sensitive information. Use this report to detect suspicious activity around your sensitive data. |
|--|---|

State-in-time reports

| | |
|---|---|
| Sensitive Data Objects by Site Collection | For each SharePoint site collection listed, this report shows the categories of sensitive data stored there and the number of documents in each category. Use this report to reveal the number of sensitive files stored in your SharePoint site collections. |
| Sensitive Data Objects | For each site collection listed, this report shows the SharePoint objects (sites, lists and documents) that have been classified as containing sensitive information. Use this report to plan and control data protection measures for sensitive information stored on your SharePoint. |
| Sensitive Data Object Permissions | For each SharePoint object (site, list or document) listed, this report shows the user accounts that have access to this object, their effective permissions and how those permissions were granted (for example, permissions can be granted directly, via group membership or using SharePoint policy). Use this report to control access to SharePoint objects that contain sensitive data. |
| Overexposed Sensitive Data Objects | For each user account listed, this report shows the SharePoint objects (sites, lists and documents) containing sensitive data that the user can access based on their effective permissions. Use this report to identify overexposed data and plan |

| Report | Description |
|-------------------------------------|---|
| | measures to mitigate your risk. |
| Most Exposed Sensitive Data Objects | Lists the SharePoint objects (sites, lists and documents) containing sensitive data that can be accessed by the most users (or even Everyone), based on effective permissions. Use this report to identify data at high risk and plan corrective actions. |

6.1. Leverage Filtering Capabilities

Report filters allow you to display changes matching certain criteria. For example, you can filter changes by source or object type. Filtering does not delete changes, but modifies the report view allowing you to see changes you are interested in. Filters can be found in the upper part of the **Preview Report** page.

To apply filters

1. Navigate to **Reports** and generate a report.
2. Apply filters to the report and click **View Report**. For example, you can update report timeframe, select specific values for *Who* and *Where*, apply sorting, etc.

Wildcards are supported. For example, type *%admin%* in the **Who (domain\user)** field if you want to view changes made by users with the name containing "administrator" (e.g., *enterprise\administrator*, *corp\administrator*, *sqladmin*).

Do not use % in the exclusive filters (e.g., *Who (Exclude domain\user)*). Otherwise, you will receive an empty report.

6.2. Subscribe to Report

Subscriptions enable you to schedule email delivery of a variety of reports. Subscriptions are helpful if you are a rare guest of Netwrix Auditor and you only need to get statistics based on individual criteria.

To create report subscription

1. On the main Netwrix Auditor page, navigate to **Reports**. Specify the report that you want to subscribe to and click **Subscribe**.
2. On the **Add Subscription to a Report** page, complete the following fields:

| Option | Description |
|--------|-------------|
| | General |

| Option | Description |
|--|--|
| Subscription name | Enter the name for the subscription. |
| Report name | You cannot edit report name. |
| Send empty subscriptions when no activity occurred | Slide the switch to Yes if you want to receive a report even if no changes occurred. |
| Specify delivery options | <ul style="list-style-type: none"> • File format—Configure reports to be delivered as the doc or xls files. • File delivery—Select one of the following: <ul style="list-style-type: none"> • Attach report to email—Select this option to receive reports as email attachments. The maximum size of the attachment file is 50 MB. • Upload to a file share—Select this option to save reports on the selected file share. Click Browse to select a folder on the computer that hosts Netwrix Auditor Server or specify a UNC path to a shared network resource. <p>NOTE: Make sure that the recipients have sufficient rights to access it and the Long-Term Archive service account has sufficient rights to upload reports. Refer to the Configure Long-Term Account section in Netwrix Auditor Online Help Center for the full list of required account rights and permissions.</p> <ul style="list-style-type: none"> • File delivery—Select report delivery method: <ul style="list-style-type: none"> • Attach report to email—Select this option to receive reports as email attachments. The maximum size of the attachment file is 50 MB. If the limit exceeded, the product creates a shared folder "<i>netwrix_report_subscriptions</i>" to upload the attachment. The attachment files will be available for 7 days. Check the subscription email to get the files. • Upload to a file share—Select this option to save reports on the selected file share. Click Browse to select a folder on the computer that hosts Netwrix Auditor Server or specify a UNC path to a shared |

| Option | Description |
|------------|---|
| | network resource. |
| Other tabs | |
| Recipients | <p>Shows the number of recipients selected and allows specifying emails where reports are to be sent.</p> <p>Expand the Recipients list and click Add Recipient to add more recipients.</p> |
| Schedule | <p>Allows specifying report delivery schedule (daily, certain days of week, a certain day of a certain month).</p> <p>NOTE: By default, the product emails reports daily at 8.00 am.</p> |
| Filters | <p>Specify the report filters, which vary depending on the selected report.</p> |

7. System Health and Troubleshooting

This section provides instructions on how to troubleshoot issues that you may encounter while using DDC Collector. Review the following for additional information:

- [System Health and Services](#)
- [Troubleshooting Issues](#)
- [DDC Provider Issues](#)

7.1. System Health and Services

Navigate to the **Dashboards** section to check Netwrix Auditor Data Discovery and Classification health state. Review the following for additional information:

| Dashboard | Description |
|----------------|--|
| System Health | Review health statuses of every service. If an issue occurs, you can expand it and review details and suggested resolution. |
| Service Viewer | Shows real-time activity of all services. Once all work is complete "Idle ..." will be displayed. It is possible to use this to check which sources are currently being processed, as well as to ensure that the services are currently running. |

7.2. Troubleshooting Issues

| Issue | Resolution |
|---|--|
| DDC Collector installation completes with warnings. | On the computer where DDC Collector is installed, navigate to the Services snap-in and restart the following services manually: |
| The Service Viewer dashboard cannot load the Indexer service status. | <ul style="list-style-type: none">• conceptIndexer• ConceptCollector• conceptClassifier |
| The Classifier service highlighted as inactive on the Service Viewer dashboard. | |

7.3. DDC Provider Issues

| Issue | Resolution |
|---|---|
| Upgrade completes with warnings and errors. | On the computer where DDC Provider is installed, navigate to DDC Provider logs. By default, they are stored to " <i>C:\ProgramData\Netwrix Auditor\Logs\Data Discovery and Classification\Tracing</i> " and review the corresponding log. |
| DDC Provider configuration completes with warnings. | |
| reports do not show data. | |

8. Glossary

The table below contains basic glossary terms:

| Term | Description | Map to Reports |
|--------------------|--|---------------------------|
| Source | External system being processed. | Object path / UNC path |
| Taxonomy / Termset | Taxonomy is set of parameters to subsume concept of information for purpose of capture, management and presentation. | Category |
| Clues | Clues are used to describe the language found in documents that make them about a particular topic. | Not reflected in reports. |
| Class / Term | Synonymous, used to describe a node in a taxonomy / termset. | Not reflected in reports. |

9. Related Documents

The table below lists all documents available to support Netwrix Auditor Data Discovery and Classification:

| Document | Description |
|--|---|
| Netwrix Auditor Online Help Center | Gathers information about Netwrix Auditor from multiple sources and stores it in one place, so you can easily search and access any data you need for your business. Read on for details about the product configuration and administration, its security intelligence features, such as interactive search and alerts, and Integration API capabilities. |
| 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 Administration Guide | Provides step-by-step instructions on how to configure and use the product. |
| Netwrix Auditor Intelligence Guide | Provides detailed instructions on how to enable complete visibility with Netwrix Auditor interactive search, report, and alert functionality. |
| 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 9.6, and suggests workarounds for these issues. |