

Netwrix Data Classification for Google Drive Quick-Start Guide

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1. Introduction

This guide is intended for the first-time users of Netwrix Data Classification for Google Drive. 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:

- · Prepare your IT infrastructure for scanning
- Install and configure Netwrix Data Classification
- Add a source to start crawling Google Drive
- Review classification results
- Leverage reporting capabilities and export results for custom reports

NOTE: This guide only covers the basic configuration and usage options for crawling Google Drive with Netwrix Data Classification. For advanced installation scenarios and configuration options, as well as for information on various reporting possibilities and other product features, refer to Netwrix Data Classification Online Help Center.

2. Configure G Suite for Crawling

Netwrix Data Classification for Google Drive uses the **OAuth 2.0** protocol to authenticate to your G Suite domain. You will need to create a service account and authorize it to access data in individual and shared Drives on behalf of users using the Google Drive API. Do the following:

In Google Cloud Platform web console:

- 1. Create a new project
- 2. Select Application type
- 3. Create a new service account
- 4. Create a service account key (JSON, save a copy for the data source configuration)
- 5. Enable G Suite domain-wide delegation for the service account (write down the Client ID)
- 6. Enable Google Drive API

In G Suite Admin Console:

1. Authorize service account to access the Google Drive API

To configure G Suite for crawling

IMPORTANT! Google administrative interfaces tend to change over time, so refer to the following guide for up-to-data instructions on creating OAuth 2.0 service accounts: <u>Using OAuth 2.0 for Server to Server Applications</u>.

Review the following for additional information:

То	Do
Create a new project	 Navigate to https://console.developers.google.com (Google Cloud Platform web console) while logged in as a G-Suite administrator within the domain to be crawled (if the user is not added within the correct domain then the correct data will not be identified).
	2. Create a new project.
Select Application type	 Once a new project has been created, navigate to APIs&Services → OAuth consent screen.
	2. Set User type to " <i>Internal</i> ".
	3. Provide the name for new application.
	4. Click Save.

То	Do
Create a new service account	 In Google Cloud Platform web console, navigate to Credentials and click Create Credentials.
	2. Then, click Service account .
	3. Create service account as described in Google official <u>article</u> .
	4. On the Grant this service account access to project (optional) step, do not select any roles.
	5. On the Grant users access to this service account (optional) step, do not grant any user access. Click Done .
Create a service account key	1. On the Service accounts section, click edit on the account you want to create a key for.
	2. Click icon under Actions and select Create key .
	 In the Create private key for <service account="" name=""> dialog, select JSON format, and download the file to a known location as it will be required later.</service>
	NOTE: Your new public / private keypair is generated and downloaded to your machine; it serves as the only copy of this key. You are responsible for storing it securely. If you lose this keypair, you will need to generate a new one.
Delegate domain-wide authority to the service	On the Service accounts section, select your service account and click Edit.
account	 Click the Show Domain-Wide Delegation link and tick the Enable G Suite Domain-wide Delegation checkbox.
	3. Click Save.
	4. Once completed, review the " <i>Domain wide delegation</i> " column for this account and make sure that the delegation enabled.
	5. Click the View Client ID link.
	6. Copy your Client ID, you will need it later.
Enable Google Drive API	 In Google Cloud Platform web console, navigate to the API Dashboard and select Enable APIs and Services (if APIs have not previously been enabled).
	2. Search for Google Drive API and click Enable (or Manage).
	3. Search for Admin SDK API and click Enable (or Manage).

To... Do...

- 4. Switch to **G Suite Admin Console**.
- 5. Navigate to Security → API Controls → Manage Domain-wide Delegation within the Google admin portal.
- 6. Set the client name to the **Client ID** you copied on the previous step.
- 7. Set the API scopes and select **Authorize**:
 - https://www.googleapis.com/auth/drive
 - https://www.googleapis.com/auth/admin.directory.user

3. Install Netwrix Data Classification

- 1. Run Netwrix_Data_Classification.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 Netwrix Data Classification. For example, *C:\Program Files\NDC*.
- 5. On the **Configuration** step, specify the directory where **Index files** reside. For example, *C:\Program Files\NDC\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 NDC SQL 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 NDC_database name.

- 7. On the **Licensing** step, add license. You can add license as follows:
 - Click the Import button and browse for your 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 Netwrix Data Classification services:

- Select all services to be installed.
- **File System Path**—Use default path or provide a custom one to store Netwrix Data Classification's Services files. For example, *C:\Program Files\NDC 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 NDC is going to be installed.

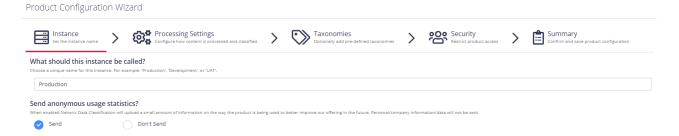
- Select additional service options, if necessary.
- 10. On the **Pre-Installation Tasks and Checks** step, review your configuration and select **Install**.
- 11. When the installation completes, open a web browser and navigate to the following URL: http://localhost/conceptQS where localhost is the name or IP address of the computer where Netwrix Data Classification is installed. For example, http://workstationndc/conceptQS.

4. Initial Product Configuration

The **Product Configuration Wizard** allows you quickly configure basic Netwrix Data Classification settings such as processing mode, taxonomies, etc.

In your web browser, navigate to the following URL: http://hostname/conceptQS where hostname is the name or IP address of the computer where Netwrix Data Classification is installed and perform initial configuration steps.

On the **Instance** step, provide the unique name for your Netwrix Data Classification instance. For example, "Production".

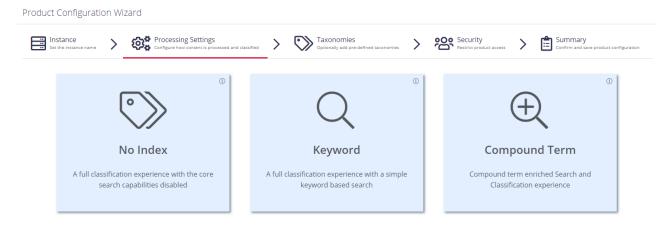


Click **Next** to proceed. See also:

- Select Processing Mode
- Processing Settings
- Add Taxonomy
- Security
- · Configure Health Alerting
- Review Your Configuration

4.1. Select Processing Mode

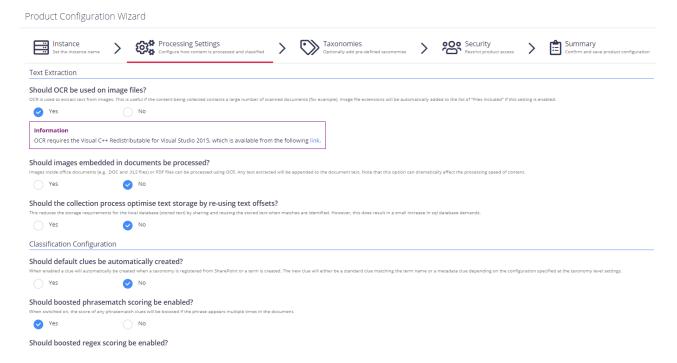
At this step of the wizard, select processing (indexing) mode for your environment.



For starter and evaluation purposes, select Keyword mode.

4.2. Processing Settings

On the **Processing Settings** step, review options for data processing and classification. For test and evaluation purposes, Netwrix recommends use default values.



Proceed with adding taxonomies.

4.3. Add Taxonomy

On this step, you are prompted to load predefined taxonomies.



Click the search bar and select one or several taxonomies you want to add. See <u>Built-in Taxonomies</u> Overview for the full list of built-in taxonomies supported by Netwrix Data Classification.

4.4. Review Your Configuration

On this step, review your configuration. Once you complete the wizard, you can:

- Add a Source
- Add a Taxonomy
- Take the Product Tour
- Get Help

5. Add Database Source

The **Database** source configuration screen allows you to enable the crawling and classification of content stored in your Microsoft SQL Server, MySQL, and Oracle databases.

Content must either be configured / crawled using the configured service accounts (IIS Application Pool User, Windows Services) or by using specific connection details.

Once connected it is possible to create an intelligent content mapping, crawling certain fields as unstructured index text, and other fields as mapped metadata. For more information please see the Database Configuration Wizard section.

If you wish to make other configuration changes before collection of the source occurs ensure you tick the checkbox "*Pause source on creation*".



Complete the following fields:

Option	Description
Connection Type	Select your connection type: MS SQL, MySQL, or Oracle.
Server	Specify the server name of the database system to be crawled ("." can be used to indicate the local server).
Database Name	Specify the database that will be crawled. It is possible to configure multiple databases from the same server.
Authentication Method	 Select authentication method: Integrated or SQL. With Integration option selected, database will be accessed under the account currently logged on. With SQL option selected, specify user name and password to be used when accessing the database.
OCR Processing Mode	Select processing mode for images in the documents:

Option	Description
	• Disabled – documents' images will not be processed.
	 Default – defaults to the source settings if configuring a path or the global setting if configured on a source.
	• Normal – images are processed with normal quality settings.
	 Enhanced – upscale images further to allow more accurate results. This will provide better accuracy but can lead to longer processing time if the images do not contain text.
Source Group	If you want to add database to a source group, select existing, or create a new one.
Pause source on creation	Select to make other configuration changes before the initial data collection starts.

After the source configuration is completed, you will be prompted to lauch SQL crawling configuration wizard. See Database Configuration Wizard for more information.

5.1. Database Configuration Wizard

For the database sources, you can enable security-based crawling, that is, finding sensitive data (which logically will either be stored in text or binary-based columns). It is possible to create an intelligent content mapping, crawling certain fields as unstructured index text, and other fields — as mapped metadata.

This section explains how to use the **Database Configuration Wizard** for configuring the crawling process. You can run this wizard when adding the data source, or you can later open the **Source** tab, select your database source and click **Launch Wizard**.

IMPORTANT! If you want to crawl a target database in your MS SQL replication model, you must backup your database before running the configuration wizard.

See next:

- Introduction
- Tables
- Exceptions
- Summary

5.1.1. Introduction

On this step, provide matching rules to search in the database for data that match exactly or are similar to a specific pattern. You can indicate both: exact or partial matches over the database strings.

5.1.2. Tables

On this step, review the grid of the tables in the database that are not currently enabled for crawling (if already enabled then don't show in this grid) and have at least one text/binary column. Configure your crawling scope considering the following:

Column	Description
Table	Contains the list of all tables in the database, followed by alphabetically.
Text Columns	Contains the number of text/binary columns for each table. Click the <u>number</u> link to review the full list.
Metadata Columns	Contains the number of non-text/binary columns for each table. Click the number link to review the full list.
Primary Key	Contains the primary key for each table. Review the following Microsoft article for more information on SQL Server primary keys: Primary Keys Constraints.
Modified Filter	To improve performance the product performs automatic re-indexing against a field in each table that indicates the last modified date of the row. Where possible, the product will automatically map this based upon the exact match or inclusion of one of the below values within the field name. Additional values can be added below in order to support other naming conventions for modified fields (different language or internal convention).
Include?	Select if you want to disable crawling for this table.
	NOTE: You can disable crawling for all listed tables using the Include none option in the upper right corner of the wizard or enable crawling accordingly with the Include all .
View Sample	Shows a table of the top 15 rows allowing to view if the table is one to exclude.

5.1.3. Exceptions

On this step, review tables with missing primary keys and/or missing modified filters.

- Missing primary keys only shows if users have tables that are missing primary keys where the
 user can select the primary key from a dropdown of all the columns. This step does not show if
 there are no missing primary keys.
- Missing modified filters only shows if there are tables missing modified filters. Here tables are shown that are missing a modified and that have a datetime (or equivalent) typed column to select. If there are none this stage is skipped.

5.1.4. Summary

At this step, review your database configuration.

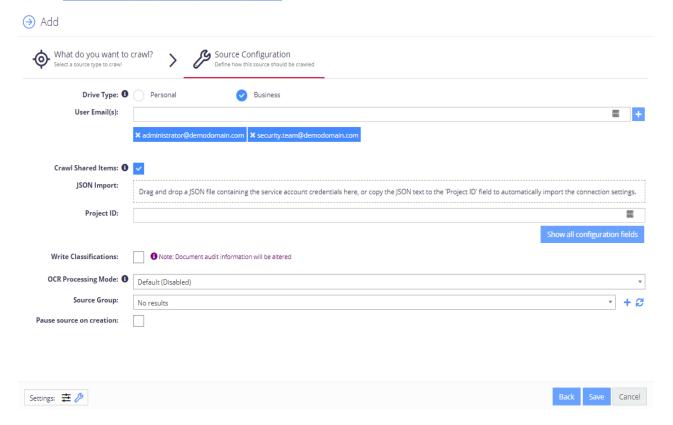
- Overview review a high-level overview of the number of configured tables and excluded tables with their details.
- Configured Tables double-check the configuration of tables to be crawled.
- Excluded Tables review the full list of the tables to be excluded from classification scope with exclusion reason.

When the database configuration has been completed you will be redirected to the **Advanced Source Configuration**, this allows you to define how the database will be crawled. It is possible to crawl either specific tables, or crawl custom queries (defined select statements, which may use JOIN statements across multiple tables). See Database for more information.

6. Add Google Drive Source

The **Google Drive** source configuration screen allows you to enable the crawling and classification of content stored in both G-Suite repositories and Google Drive personal accounts.

IMPORTANT! Make sure you created App for GDrive crawling prior to start adding the source. See the Installation and Configuration Guide for more information.



Complete the following fields:

Option	Description	
Basic settings		
Drive Type	Select <i>Business</i> .	
User Email(s)	When adding a G-Suite source, enter the email address of the user's drive that you wish to crawl (via impersonation).	
Crawl Shared Items	Select to crawl all files shared with the specified user in addition to any team drives shared with the user.	

Option	Description
Crawl Shared Items	Select to enable crawling of any types of documents shared with the specified user.
JSON Import	Drag the JSON connection file you downloaded while creating Google service account in the form.
Project ID	Open the JSON connection file and copy file contents to Project ID field.
Write Classifications	Leave this checkbox empty.
OCR Processing Mode	(missing or bad snippet)
Source Group	Netwrix recommends creating a dedicated source group for Google Drive.
Pause source on creation	Select if you want to make other configuration changes before collection of the source occurs.

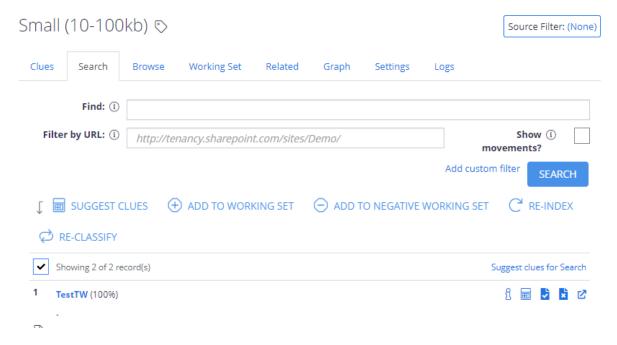
7. Review Reports and Browse Classified Documents

Once your documents are classified, you can identify sensitive information and reduce its exposure. Netwrix recommends starting with the **Document Tagging** report to see automatic and manual classifications of the documents within the reporting set. Further, you can browse your documents to see a list of documents achieving the minimum score set for classification in the term. Review the following for additional information:

- To browse classification results
- To review the Document Tagging report

To browse classification results

- 1. In administrative web console, navigate to **Taxonomies** → **Term Management**.
- 2. Select **Taxonomy** in the dropdown on the left and then expand specific term you are interested in.
- 3. Switch to **Browse** tab:



4. Click **Filter** to start browsing your documents.

To review the Document Tagging report

- 1. In administrative web console, navigate to **Reports** and expand the **Document Reports** set.
- 2. Select the **Document Tagging** report and click **Show filters** to narrow report scope.

Filter	Description
Taxonomy	By default, the report shows results for all taxonomies. Select the taxonomy you are interested in to restrict report scope.
Score Range	Select the score. Review <u>Scoring</u> for more information.
Classification	By default, the report shows results for all terms within a taxonomy. Limit your results by selected term.
Page URL	Filter your results by selected page URL.
Source	Select source group you created for Google Drive.

- 3. Click **Generate** and review results.
- 4. You can also export displayed page to .csv and .xlsx table or download the whole results.

TIP: Upon export, you will be prompted to include any associated document metadata to the report. It can be useful if you want to generate custom security reports. Specify metadata fields and click **Export** to download report.