This tutorial explains on a step by step base how to configure YDOC-Insights for usage with a SQL-server database. (How to manage SQL-server itself is not part of this tutorial)

CONTENTS

CONTENTS	1
1. INSTALL SQL-SERVER	1
2. CREATE A DATABASE	1
3. MAKE SQL-SERVER NETWORK ACCESSIBLE	2
3.1 SET AUTHENTICATION MODE	2
3.2 Enable the 'sa' login	3
3.3 ENABLE TCP/IP PROTOCOLS	4
4. LINK APPLICATION TO THE SQL-SERVER DATABASE	4

1. Install SQL-server

If you did not already install SQL-server® or don't have access to a cooperate SQL-server®, please download and install Microsoft® SQL Server® 2012 Express with Tools (Includes the database engine and SQL Server Management Studio Express). SQL Server® 2012 **requires Microsoft Windows 7, 2008** or higher.

SQL Server® 2012 Express is a powerful and reliable free data management system that delivers a rich and reliable data store.

This package contains everything needed to install and configure SQL Server as a database server. When asked for during installation <u>choose Express</u> and <u>not LocalDB</u>.

2. Create a database

If a YDOC-Insights database was not yet created before, you can create a new empty database with the 'SQL Server Management Studio'. Start the 'Studio', connect to your local database engine (<computer name>\SQLEXPRESS) using 'Windows Authentication'.



In the 'Object Explorer' (1.) right mouse click the 'Databases' map (2.) and click 'New database' (3.) in the popup-menu. A window will pop-up to create an empty database and all you have to do is to specify a name for your database (e.g. YOURDATABASE). YDOC-Insights itself will create all the necessary tables and indexes.

3. Make SQL-server network accessible

If you want to make your database accessible from other PC's or even from remote you have to make some provisions. You can skip this chapter if your database is for local use only.

3.1 Set authentication mode



The SQL-server authentication mode is at default set to 'Windows authentication', however when you want to access the server from a PC outside the domain, you can't access the database. In the 'Object Explorer' right mouse click the 'Database Engine' (1.) and click 'Properties' (2.) in the popup-menu. In the popped-up properties window select the 'Security'-page (3.) and check the 'SQL-server and Windows Authentication mode' radio button (4.)

3.2 Enable the 'sa' login

To be able to access a database with 'SQL-server authentaication' you need to have a SQL-server login and the quickest way to do it, is by enabling the already build in 'sa' account.



In the 'Object Explorer' right mouse click the 'sa' Login (1.) and click 'Properties' (2.) in the popup-menu. In the popped-up properties window select first the 'General'-page (3.) and check the 'SQL-server authentication' radio button (4.) and specify a strong password (5.) and make sure that 'Enforce password policy' is set to disabled to prevent Windows from disabling your login after security updates.

The 'sa' login is disabled at default, select the 'Status'-page (7.) and grant (8.) the login access permission and set it to enabled (9.)

3.3 Enable TCP/IP protocols

To be able to access the database thru a TCP/IP network, the TCP/IP protocols of SQL-server should be enabled and configured first.

Sql Server Configuration Manager 1.				
<u>B</u> estand <u>A</u> ctie Beel <u>d</u> <u>H</u> elp				
🗢 🔿 🙍 🗐 🧟 😹 👔				
🕵 SQL Server Configuration Manager (Local)	Protocol Name	Status		
SQL Server Services SQL Server Network Configuration Configuration SQL Server Network Configuration SQL Server Network Configuration SQL Netive Client 11.0 Configuration	Gamma Shared Memory Commed Pipes CP/IP	Enabled Disabled Enabled 3.		
	Eigenschappen van	TCP/IP		8 ×)
	Protocol IP Addr	esses		
	IP Address		fe80::100:7f:fffe%12	
	TCP Dynamic Ports		0	
	TCP Port			=
	TCP Dynamic	Ports	49660	
	TCP Port		1433 4 .	
	TCP Port TCP port	OK An	nuleren Toepassen	Help

Start the 'SQL-Server Configuration Manager (1.) and select 'Protocols for SQLEXPRESS' (2.). Please enable (3.) the TCP/IP protocol and set the TCP-port (4.) at which SQL-server should listen for all network interfaces (IP All) to 1433. Make sure that your firewalls don't block this port.

4. Link application to the SQL-server database

When you start YDOC-Insights and run it as administrator the YDOC-Insights Login box will show a 'Change Data Source'-button (1.). Please click this button to pop-up a 'Database properties'-screen.

User	administrator	ОК
Password		Change
	Change Data Source	1.

Database Proper	ties	×.
Database (AD	O/OLEDB Data Source)	
Connection St	ring: 1.	2
Database Logi	Authentication	
User ID:	sa	Password : *****
		Cancel

To link to a SQL-server database, please clear the existing 'Connection String' (1.) and click the `...'-button (2.) to popup a database 'Data link properties'- screen. In the 'Data link properties'-screen select the 'SQL Server Native Client'-driver (1.) or if not available on your client, the 'Microsoft OLE DB for SQL-server'-driver (*) and click the 'Next'-button (2.)

Selecteer de gegevens waarmee u een verbinding wilt maken: OLE DB-voorziening(en) Microsoft OLE DB Provider For Data Mining Services Microsoft OLE DB Provider for DTS Packages Microsoft OLE DB Provider for ODBC Drivers Microsoft OLE DB Provider for OLAP Services 8.0 Microsoft OLE DB Provider for OLAP Services 8.0 Microsoft OLE DB Provider for OLAP Services 8.0 Microsoft OLE DB Provider for SQL Server * Microsoft OLE DB Provider for SQL Server * Microsoft OLE DB Simple Provider MSData Shape OLE DB Provider for Microsoft Directory Services SQL Server Native Clent 11.0 *	Da /oor	ta Link-eigenschappen rziening Verbinding Geavanceerd Alles	
OLE DB-voorziening(en) Microsoft OLE DB Provider For Data Mining Services Microsoft OLE DB Provider for DTS Packages Microsoft OLE DB Provider for ODBC Drivers Microsoft OLE DB Provider for ODBC Drivers Microsoft OLE DB Provider for OLAP Services 8.0 Microsoft OLE DB Provider for Search Microsoft OLE DB Provider for SQL Server * Microsoft OLE DB Provider for SQL Server Microsoft OLE DB Provider for SQL Server * Microsoft OLE DB Simple Provider MSData Shape OLE DB Provider for Microsoft Directory Services SQL Server Native Client 11.0 III	Se	lecteer de gegevens waarmee u een verbinding wilt maken:	
Microsoft OLE DB Provider For Data Mining Services Microsoft OLE DB Provider for DTS Packages Microsoft OLE DB Provider for Indexing Service Microsoft OLE DB Provider for ODBC Drivers Microsoft OLE DB Provider for OLAP Services 8.0 Microsoft OLE DB Provider for Oracle Microsoft OLE DB Provider for SQL Server * Microsoft OLE DB Simple Provider Microsoft OLE DB Forvider for Microsoft Directory Services SQL Server Native Client 11.0	[OLE DB-voorziening(en)	*
Microsoft OLE DB Provider for DTS Packages Microsoft OLE DB Provider for Indexing Service Microsoft OLE DB Provider for ODBC Drivers Microsoft OLE DB Provider for OLAP Services 8.0 Microsoft OLE DB Provider for Oracle Microsoft OLE DB Provider for SQL Server * Microsoft OLE DB Simple Provider MSDataShape OLE DB Provider for Microsoft Directory Services SQL Server Native Client 11.0 *		Microsoft OLE DB Provider For Data Mining Services	
Microsoft OLE DB Provider for Indexing Service Microsoft OLE DB Provider for ODBC Drivers Microsoft OLE DB Provider for OLAP Services 8.0 Microsoft OLE DB Provider for Oracle Microsoft OLE DB Provider for SQL Server * Microsoft OLE DB Simple Provider MSDataShape OLE DB Provider for Microsoft Directory Services SQL Server Native Client 11.0		Microsoft OLE DB Provider for DTS Packages	
Microsoft OLE DB Provider for ODBC Drivers Microsoft OLE DB Provider for OLAP Services 8.0 Microsoft OLE DB Provider for Oracle Microsoft OLE DB Provider for Search Microsoft OLE DB Provider for SQL Server * Microsoft OLE DB Simple Provider MSData Shape OLE DB Provider for Microsoft Directory Services SQL Server Native Client 11.0		Microsoft OLE DB Provider for Indexing Service	
Microsoft OLE DB Provider for OLAP Services 8.0 Microsoft OLE DB Provider for Oracle Microsoft OLE DB Provider for SQL Server * Microsoft OLE DB Simple Provider MSDataShape OLE DB Provider for Microsoft Directory Services SQL Server Native Client 11.0 *		Microsoft OLE DB Provider for ODBC Drivers	
Microsoft OLE DB Provider for Oracle Microsoft OLE DB Provider for Search Microsoft OLE DB Provider for SQL Server * Microsoft OLE DB Simple Provider MSDataShape OLE DB Provider for Microsoft Directory Services SQL Server Native Client 11.0 *		Microsoft OLE DB Provider for OLAP Services 8.0	
Microsoft OLE DB Provider for SQL Server * Microsoft OLE DB Simple Provider MSDataShape OLE DB Provider for Microsoft Directory Services SQL Server Native Client 11.0 *		Microsoft OLE DB Provider for Oracle	
Microsoft OLE DB Simple Provider MSDataShape OLE DB Provider for Microsoft Directory Services SQL Server Native Client 11.0		Microsoft OLE DB Provider for SQL Server *	=
MSDataShape OLE DB Provider for Microsoft Directory Services SQL Server Native Client 11.0		Microsoft OLE DB Simple Provider	
OLE DB Provider for Microsoft Directory Services SQL Server Native Client 11.0 <		MSData Shape	
SQL Server Native Client 11.0 Image: Client Server Native Client Server Native Client Server Native Client Native Client Server Nati		OLE DB Provider for Microsoft Directory Services	
×	1.	SQL Server Native Client 11.0	
• III • •			-
		2. Volgende :	>>
2. Volgende >>			
2. Volgende >>			
2. Volgende >>		OK Annuleren	Help

Please specify the location of the SQL-server engine (1.) which exists out of three parts: before the $\$ you have to specify the host name or IP-address of the computer running SQL-server (e.g. 127.0.0.1). After the $\$ you have to specify the 'Instance name' of the SQL-server (e.g. SQLEXPRESS) and the last part separated with a comma (,) should be the TCP-port number SQL-server is listening at (e.g. 1433).

To get access you have to specify (2.) a user name and password.

As a SQL-server engine can service multiple databases you have to select the database (3.) used for YDOC-Insights (e.g. YOURDATABASE).

53 💼 Data Link-eigenschappen Verbinding Geavanceerd Alles 1. Select or enter a server name: 127.0.0.1\SQLEXPRESS.1433 Refresh Enter information to log on to the server: O Use Windows NT Integrated security: Server SPN: Use a specific user name and password: User name: sa Password: Allow saving password Blank password YOURDATABASE 3. O Select the database: O Attach a database file as a database name Using the filename Change Password Test Connection 4. OK Annuleren Help

Click the OK-button (4.) to finalize your driver settings.