# MEDI WARE ®

## MW PHARM ++

## Installation of Microsoft SQL Server 2012 Setup MwPharm++ database

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#### 1 How to install the Microsoft SQL Server 2012 Express

1.1 Download the installer

Download SQL Server 2012 Management Studio Express with the latest Service Pack from Microsoft Download Center. Be sure to select the file that designed for your system (x86 or x64). In this example, I'm going to download the **SQLEXPRADV\_x64\_ENU.exe** for my 64-bit system. Installer can be downloaded from Microsoft website <u>SQLEXPRADV\_x64\_ENU.exe</u> or from Mediware website.

- 1.2 Install the new SQL server stand-alone instalation
- 1 To begin, launch the install program and choose the top option to install a new stand-alone installation.

1	SQL Server 2012 Setup – 🗖 🔼	<
License Terms To install SQL Server 2012, you	u must accept the Microsoft Software License Terms.	XXXX
Setup Support Rules License Terms Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	MICROSOFT SOFTWARE LICENSE TERMS       Internet-based services, and         updates,       Internet-based services, and         supplements,       Internet-based services, and         support the license terms.       Internet services         send feature usage data to Microsoft. Feature usage data includes information about your hardware configuration and how you use SQL Server and its components.         See the Microsoft SQL Server 2012 Privacy Statement for more information.	t
	< <u>B</u> ack <u>N</u> ext > Cancel Help	]



Read and accept the license agreement and click next. At this point you can choose the features that you want to install. You can also change the install folder if you do not want to install to the default location.

- 102	SQL Server 2012 Setup	×
Feature Selection Select the Express features to	nstall.	
Setup Support Rules License Terms Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Leatures: Instance Features SQL Server Replication Full-Text and Semantic Extractions for Search Reporting Services - Native Shared Features SQL Server Data Tools Documentation Components Management Tools - Basic SQL Client Connectivity SDK LocalDB Redistributable Features	Feature description:         The configuration and operation of each instance feature of a SQL Server instances.         SQL Server instances can operate side-by-side on the same computer.         Prerequisites for selected features:         Already installed:         Microsoft .NET Framework 4.0         Microsoft .NET Framework 3.5         To be installed from media:         Microsoft Visual Studio 2010 Shell
	Select All       Unselect All         Shared feature directory:       C:\Program Files\Micros         Shared feature directory (x86):       C:\Program Files (x86)\M	oft SQL Server\



Now you can configure the SQL instance. If this is the first instance of SQL Server on your computer, you probably want to change this setting to Default instance. If you already have another instance of SQL Server, you will want to use Named Instance and give it a name.

1	SQL S	erver 2012 S	etup		- 🗆 ×
Instance Configuration Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path.					
Setup Support Rules License Terms Feature Selection	Default instance Named instance:	MSSQLSERVE	ER		
Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration Error Reporting Installation Configuration Rules Installation Progress	Instance <u>I</u> D: Instance <u>r</u> oot directory:	MSSQLSERVER C:\Program Files\Microsoft SQL Server\			
	SQL Server directory: Reporting Services directory: Insta <u>l</u> led instances:	C:\Program F C:\Program F	iles\Microsoft SQ	lL Server\MSSQL11.MSS lL Server\MSRS11.MSSQ	QLSERVER LSERVER
Complete	Instance Name Insta	nce ID	Features	Edition	Version
			< <u>B</u> ack	Next > Cance	el Help



The next step is server configuration. From here you can change the Windows services associated with this instance of SQL Server. You can keep the defaults here unless you want to specify different user accounts for the services. You can also change the default collation settings.

1	SQL Server 201	2 Setup			×
Server Configuration Specify the service accounts and a	collation configuration.				
Setup Support Rules License Terms Feature Selection	Service Accounts         Collation           Microsoft recommends that you use	a separate account for each	SQL Server servic	:e.	
Installation Rules	Service	Account Name	Password	Startup Type	
Instance Configuration	SQL Server Database Engine	NT Service\MSSQLSERVER		Automatic	~
Disk Space Requirements	SQL Server Reporting Services	NT Service\ReportServer		Automatic	~
Server Configuration	SQL Full-text Filter Daemon Launc	NT Service\MSSQLFDLa		Manual	
Database Engine Configuration	SQL Server Browser	NT AUTHORITY\Networ		Disabled	~
Reporting Services Configuration					
Error Reporting					
Installation Configuration Rules					
Installation Progress					
Complete					
		< <u>B</u> ack <u>N</u> ext :	> Canc	el He	р



Now we come to the Database Engine configuration. On the Server Configuration tab you can select whether SQL Server will only authenticate using Windows accounts or you can choose Mixed Mode which will allow Windows accounts and SQL accounts. You can also add or remove accounts that will be SQL administrators.

1	SQL Server 2012 Setup	- 🗆 ×
Database Engine Config Specify Database Engine auther Setup Support Rules	guration tication security mode, administrators and data directories. Server Configuration Data Directories User Instances FILESTREAM	
Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration <b>Database Engine Configuration</b> Reporting Services Configuration Error Reporting Installation Configuration Rules Installation Progress	Specify the authentication mode and administrators for the Database Engine.         Authentication Mode <ul> <li>Windows authentication mode</li> <li>Mixed Mode (SQL Server authentication and Windows authentication)</li> </ul> Specify the password for the SQL Server system administrator (sa) account.         Enter password:         Confirm password:	
Complete	George-Lenovo\George (George)       SQL Server ad have unrestriction to the Database         Add Current User       Add	ninistrators ted access e Engine.
	< <u>B</u> ack <u>N</u> ext > Cancel	Help



On the Data Directories tab you can change the locations of various files that SQL will use. Depending on your server configuration and the load that will be put on SQL, you may want to put the database and log folders on separate drives. For most people, you can leave the default values.

The next step configures Reporting Services. Set this to Install Only if you don't need reporting services or may need them in the future. You can always go back and configure it later.

1	SQL Server 2012 Setup – 🗖 🗙			
Reporting Services Con Specify the Reporting Services of	nfiguration configuration mode.			
Setup Support Rules License Terms Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration <b>Reporting Services Configura</b> Error Reporting Installation Configuration Rules Installation Progress Complete	<ul> <li>Reporting Services Native Mode         <ul> <li>Install and configure.</li> <li>Installs and configures the report server in native mode. The report server is operational after setup completes.</li> <li>Install gnly.</li> <li>Installs the report server files. After installation, use Reporting Services Configuration Manager to configure the report server for native mode.</li> </ul> </li> <li>Reporting Services SharePoint Integrated Mode         <ul> <li>Installs the report server files. After installation use SharePoint Central Administration to complete the configuration. Verify the SQL Server Reporting Services service is started and create at least one SQL Server Reporting Services service application. For more information, click Help.</li> </ul> </li> </ul>			
< <u>B</u> ack <u>N</u> ext > Cancel Help				



On the Error Reporting step, you can choose whether or not you would like to send error reports to Microsoft to help them improve future releases of SQL server.

1	SQL Server 2012 Setup – 🗖 🗙
Error Reporting Help Microsoft improve SQL Se	erver features and services.
Setup Support Rules License Terms Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration <b>Error Reporting</b> Installation Configuration Rules Installation Progress Complete	Specify the information that you would like to automatically send to Microsoft to improve future releases of SQL Server. These settings are optional. Microsoft treats this information as confidential. Microsoft may provide updates through Microsoft Update to modify feature usage data. These updates might be downloaded and installed on your machine automatically, depending on your Automatic Update settings. See the Microsoft SQL Server 2012 Privacy Statement for more information. Read more about Microsoft Update and Automatic Update. Send <u>Wi</u> ndows and SQL Server Error Reports to Microsoft or your corporate report server. This setting only applies to services that run without user interaction.
	< <u>B</u> ack <u>N</u> ext > Cancel Help



At this point, SQL server will install on your computer. This could take a while to complete depending on the computer you are using.

1	SQL Server 2012 Setup			-		×
Installation Progress						
Setup Support Rules License Terms Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Scheduling feature configuration.					
		<u>N</u> ext >	Cancel		Help	

If everything completed successfully, you can close the window.



#### 2 Creating a SQL Server Database

2.1 Open Microsoft SQL Server Management Studio

Use start menu and open SQL Server Management Studio







#### Log into your SQL Server

ef	Connect to Server	×
SQL Se	erver <sup></sup> 2012	
Server type:	Database Engine	~
Server name:	GEORGE-LENOVO\SQLEXPRESS	¥
<u>Authentication:</u>	Windows Authentication	~
<u>U</u> ser name:	George-Lenovo\George	~
Password:		
	Remember password	
Conr	Cancel Help Option	ns >>

After launching the software expand the Databases folder. Right-click on the Databases folder and select "New Database" from the contextual menu.

5			
<u>File Edit View E</u>	ebug <u>T</u> ools <u>W</u> indow <u>H</u> elp		
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Object Explorer			<b>→</b> 中 ×
Connect 🕶 🛃 🛃	= 🝸 🛃 🍒		
😑 🐻 GEORGE-LEN	VOVO\SQLEXPRESS (SQL Server 9.0.3042	- George-Lenovo\George)	
Data	New Database		
± 3	Attach		
🛛 🗉 🗍 T	Restore Database		
🕀 🧰 Secu	Restore Files and Filegroups		
⊕ Repl	Deploy Data-tier Application		
🕀 🚞 Man	Import Data-tier Application		
	Start PowerShell		
	Reports •		
	Refresh		
		1	



In the dialog that opens change the database name to "MwPharm". Click OK to create the database.

8		New Database – 🗖						X
Select a page	🔄 Script 🔻 📭	Help						
Filegroups	Database <u>n</u> ame:			MwPham				
	<u>O</u> wner:			<default></default>				
	Use full-text in	dexing						
	Database <u>f</u> iles:							
	Logical Name	File Type	File	group	Initial Size (MB)	Autogrowth / M	axsize	
	MwPham	Rows	PR	IMARY	3	By 1 MB, Unlim	ited	
	MwPham_log	Log	Not	Applicable	1	By 10 percent,	Unlimited	l
Connection								
Server: GEORGE-LENOVO\SQLEXPRES								
Connection: George-Lenovo\George								
View connection properties								
Progress								
Ready	<				Add		<u>R</u> emove	>
						ОК	Car	ncel



The new database will now appear in the list of databases.



Execute the SQL scripts that will create the tables in the database "MwPharm"

😵 1-Drop	11/11/2015 22:40	Soubor SQL	1 kB
😵 2-Create	12/11/2015 09:02	Soubor SQL	4 kB
😵 3-Constraint	11/11/2015 22:57	Soubor SQL	2 kB
😵 4-Index	11/11/2015 23:16	Soubor SQL	1 kB
🐼 5A-Syntax	12/11/2015 01:37	Soubor SQL	1 kB
😵 5B-Patient	12/11/2015 10:01	Soubor SQL	15 kB
😵 5C-Drug	12/11/2015 10:01	Soubor SQL	29 kB
😵 5D-Diagram	12/11/2015 10:02	Soubor SQL	10 kB
😵 5E-MwpUser	12/11/2015 10:02	Soubor SQL	1 kB
😵 5F-Model	12/11/2015 10:02	Soubor SQL	1,484 kB
😵 5G-Casus	12/11/2015 10:03	Soubor SQL	209 kB
MwPharm++.bak	12/11/2015 12:28	Soubor BAK	5,784 kB
🖺 Readme	12/11/2015 12:26	Textový dokument	1 kB



The new tables will now appear in the list of tables in the MwPharm database.

No. and a second se
<u>File Edit View Debug Tools Window H</u> elp
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Object Evalurer
GEORGE-LENOVO\SQLEXPRESS (SQL Server 9.0.3042 - George-Lenovo\George)
Databases
System Databases
Database Diagrams
E System Tables
dbo.Casus
🕀 🔲 dbo.Diagram
🕀 💷 dbo.Drug
🕀 💷 dbo.Lab
🕣 🔟 dbo.Med
🕀 🔝 dbo.Model
dbo.Patient
dbo.Syntax
🛨 🛄 Views
🖃 🦲 Synonyms
Service Broker
E Storage
🕀 📔 Test
🕀 间 M 🛛 👘
🗄 🧰 Security
🕀 🚞 Server Objects
🕀 🧰 Management



#### Check if the tables contain the default data and are not empty

5		SQLQ	uery1	l.sql - G	EORGE-	LENOVO\S	QLEXPRESS.	master (G	eorg
<u>File Edit View Project De</u>	bug <u>T</u> ools <u>W</u> indow <u>H</u> elp								
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Object Explorer		<b>-</b> ₽ ×	SOL	Duerv1.so	II - GE…end	ovo\George (	52)) ×		
Connect 🔹 🛃 💷 🍸 📦	1 🔏			/****	** Scri	pt for S	electTopNRd	ws comm	and
GEORGE-LENOVO\SOLE	EXPRESS (SOL Server 9.0.3042 - 0	George-Lenovo\George)		SELEC	T TOP 1	.000 [Pat	ID]		
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🖃 📔 MwPharm					,[Path	amej			
🕀 🛅 Database Dia	grams				(Sevi	.nbatej			
🖃 🧰 Tables					, [Race	1			
🕀 🛅 System T	ables				,[Bw]				
🕀 🥅 dbo.Casu	IS				,[Bh]				
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😥 📰 dbo.Lab					,[Dt]				
E dbo.Med					, [CLCI	141			
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🕀 🚞 Service B	Edit Top 200 Rows			PatID	PatNUM	DefCaseID	PatName	BirthDate	Sex
🕀 🧰 Storage	Script Table as		1	1	IC001	1	ICASUS 001	19501111	1
E Security	View Dependencies		2	2	!C002	2	ICASUS 002	19451111	0
MwPharm	Full-Text index		3	3	!C003	3	ICASUS 003	19360821	0
The security			4	4	!C004a	4	ICASUS 004a	19461111	0
Gerver Objects	Policies •		5	5	!C004b	5	ICASUS 004b	19930511	1
E      Replication	Facets		6	6	!C005	6	ICASUS 005	19221111	0
🕀 🚞 Management	Start PowerShell		7	7	!C006	7	ICASUS 006	19921111	0
			8	8	!C007	8	ICASUS 007	19151111	0
	Reports •		9	9	IC008	9	ICASUS 008	19900913	0
	Rename		10	10	IC009	10	ICASUS 009	19241111	1
	Delete		11	11	!C010	11	ICASUS 010	19771111	1
			12	12	IN001	12	INPEM 001	19260426	0
	Refresh		13	13	!N002	13	INPEM 002	19291227	U
	Properties		<						
		-	0	Query exe	cuted succ	essfully.			
Output									



### 3 Adding a SQL Server User

Expand the Security -> Logins folder to show a list of users.

File Edit View Debug Tools Window Help	
🗄 🕶 = 📂 🐷 🛃 🎒 🔔 New Query 📑 📸 📸 🍒 🐇 🛍 🖄 – 🔍 – 🕮 – 🖳	1
Object Explorer 🗸	q×
Connect - 🛃 🛃 🔲 🍸 🛃 🍒	
😑 🐻 GEORGE-LENOVO\SQLEXPRESS (SQL Server 9.0.3042 - George-Lenovo\George)	
🖃 🚞 Databases	
🗉 🧰 System Databases	
🗉 间 MwPharm	
🕢 🕀 🧻 Test	
🖃 🚞 Security	
🔊 Bl New Login	
Bi Filter	
Start PowerShell	
Reports	
🕀 🧰 Credentials	
🕀 🧰 Server Objects	
🕢 🔁 Teplication	
🕢 🕀 🛅 Management	



In the dialog that appears do the following:

1) Set the login name. This example uses **George** but you could also choose something like **mwpharm\_user** 

#### 2) Set the default database to MwPharm

8	Login Properties - Geo	rge-Lenovo\George		- 🗆 🗙
Select a page	🔄 Script 🔻 🛐 Help			
General Server Roles User Mapping Securables Status	Login name: Windows authentication SQL Server authentication Password: Confirm password: Specify old password Qld password: Enforce password policy Enforce password expiral User must change passw Mapped to certificate	George-Lenovo\George		S <u>e</u> arch
Connection	Map to Credential		 V	Add
Server: GEORGE-LENOVO\SQLEXPRES Connection: George-Lenovo\George	Mapped Credentials	Credential F	Provider	_
Progress				Remove
Ready	Default <u>d</u> atabase: Default lan <u>g</u> uage:	MwPham English	~	
			ОК	Cancel:

Now switch to Server Roles and make sure that public and sysadmin are checked.



Now switch to User Mapping and make sure that User has access to Database
---

8	Login Properties - Ge	orge-Lenovo\Ge	orge 🗕 🗖	X
Select a page	🛒 Script 🔻 📑 Help			
General Server Roles User Mapping Securables Status	Users mapped to this login: Map Database master model MwPham MwPham	User dbo dbo	Default Schema dbo dbo	
	▼ Test	dbo	dbo	
Connection	Guest account enabled for: m Database role membership for: m	naster aster		
Server: GEORGE-LENOVO\SQLEXPRES	db_backupoperator db_datareader			
Connection: George-Lenovo\George	db_datawriter db_ddladmin			
View connection properties	db_denydatareader db_denydatawriter db_owner			
Progress	☐ db_securityadmin ✓ public			
Ready				
			OK Car	icel



#### 4 Creating ODBC Connections on Windows

Within the Start Menu you will find a shortcut to **Data Sources (ODBC)**. Launch this application.





After the application finishes launching click on the **System DSN** tab. You can install a DSN that is available to any user that logs into the computer from here.

Click on the **Add** button.

5	Správce	zdrojů dat C	DBC (64	bitový)		>
Trasování Uživatelské DSN	Systém	odružování připoj ové DSN	jení Sout	orové DSN	) rozhran í ODBC Ovladače	
Systémové zdroje dat:						
Název	Platforma	Ovladač			<u>P</u> iñdat	
SQLite Datasource SQLite Datasource	32 bitů 64 bitů	SQLite ODBC [ SQLite ODBC [	Driver Driver		O <u>d</u> ebrat	
SQLite UTF-8 Datasource SQLite UTF-8 Datasource SQLite3 Datasource	32 bitů 64 bitů 32 bitů	SQLite ODBC ( SQLite ODBC ( SQLite3 ODBC	UTF-8) Drive (UTF-8) Drive Driver	er er	Konfigurovat	
SQLite3 Datasource Xtreme Sample Database 2008	64 bitů 32 bitů	SQLite3 ODBC Microsoft Acce	Driver ss Driver (* m	udb)		
Systémový zdroj dat O dat. Systémový zdroj o	DBC obsah lat mohou v	nuje informace o : ridět všichni uživa	způsobu přip atelé tohoto p	ojení k uvedené počítače, včetně	mu zprostředkovateli s služeb systému NT.	
L		OK		Storno	Použí <u>t</u> Nápov	věda



If you are using SQL Server 2012 or later than select the **SQL Server Native Client 11.0** driver

Click Finish.

If SQL Server Native Client 11.0 does not appear in your list then you need to download and install it from the Microsoft website. **Alternatively can be used** the **SQL Server ODBC** driver

Download and run the **Microsoft SQL Server 2012 Native Client** installer to install the SQL Server Native Client 11.0 ODBC driver. After running the installer start over with this lesson.

Vytvoření nového zdroje dat						
	Vyberte ovladač, pro který chcete vy Název MySQL ODBC 5.3 ANSI Driver MySQL ODBC 5.3 Unicode Driver SQL Server SQL Server SQL Server Native Client 11.0 SQL 20 DBC (UTE 2) Driver	vtvořit zdroj dat. Verze 5.03.04.00 5.03.04.00 6.03.9600.17415 2011.110.2100.60	s C C N			
	SQLite ODBC (011-8) Driver SQLite ODBC Driver SQLite3 ODBC Driver	0.996.00.00	c c			
	<	:	>			
	< <u>Z</u> pět Doko	ončit Stomo				

In the next dialog that appears enter the data source name - for example mwpharm\_db for



the name and specify the location of the database server.

	Microsoft SQL Server DSN Configuration	<
SQL Server 2012	This wizard will help you create an ODBC data source that you can use to connect to SQL Server. What name do you want to use to refer to the data source? Name: mwpharm_db	]
	How do you want to describe the data source? Description: MwPharm Server DB Which SQL Server do you want to connect to? Server: GEORGE-LENOVO\SQLEXPRESS ✓	]
	Dokončit <u>D</u> alší > Stomo Nápověda	-



On the next select the SQL Server authenticity. You can also use the username and password for the user you created in the <u>previous lesson</u> if you want ot use authenticity with username and password. Be sure that this user has access to the MwPharm DB.

	Create a New Data Source to SQL Server						
SQL Server 2012	How should SQL Server verify the authenticity of the login ID? <ul> <li>With Integrated Windows authentication</li> <li>SPN (Optional):</li> </ul>						
	With SQL Server authentication using a login ID and password entered by the user.         Login ID:         George         Password:						
	< Zpět Další > Stomo Nápověda						



Change the default database to the MwPharm database.

	Microsoft SQL Server DSN Configuration
SQL Server 2012	✓ Change the <u>d</u> efault database to:           MwPham         ✓           Mirror server:         ✓
	S <u>P</u> N for mirror server (Optional):
	<ul> <li>✓ Use ANSI quoted identifiers.</li> <li>✓ Use ANSI nulls, paddings and warnings.</li> <li>Application intent:</li> </ul>
Percenta de la construcción de	READWRITE V Multi-subnet <u>f</u> ailover.
	< <u>Z</u> pět <u>D</u> alší > Stomo Nápověda



	Microsoft SQL Server DSN Configuration		×	
SQL Server 2012	Change the language of SQL Server system messages to English		~	
	Use strong encryption for data			
A	Use regional settings when outputting ourreport purplers	dates and times		
	Cover lease subside subside to the less file:	, dates and times.		
	C:\Users\George\AppData\Local\Temp\QUERY.LC	Browse		
	Long query time (milliseconds): 3	0000		
	Log ODBC driver statistics to the log file:			
	C:\Users\George\AppData\Local\Temp\STATS.LO	Bro <u>w</u> se		
< <u>Z</u> pět Dokončit Stomo Nápověda				

Confirm that your dialog has the same settings as shown here then click **Finish**.



In the final dialog click the **Test Data Source** button to confirm that you can connect to SQL Server.

If the test is successful you can click **OK** to continue. If the test is not successful then go back and make the necessary changes based on the error message and try the test again.

SQL Server ODBC Data Source Test	×	
Test Results		
Microsoft SQL Server Native Client Version 11.00.2100		
Running connectivity tests		
Attempting connection Connection established Verifying option settings Disconnecting from server		
TESTS COMPLETED SUCCESSFULLY!		
	,	
OK		

You should now have a new System DSN in the Systém DSN list.



Set new Connection string in settings of MwPharm++.

dsn=mwpharm\_db

DATABASE SETTINGS

Connection

Mediware a. s. | Evropská 655/116 | 160 00 Praha 6 | email: support@mediware.cz| http://www.mediware.cz