SQL2008 Server Installation and Configuration for SpeechMiner

SQL 2008 Enterprise Edition Installation:

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Don't forget to restart the machine after the SQL installation is completed.

Configuration: SQL Server

- 1. Go to Start menu, go to Microsoft SQL Server 2008 -> Configuration Tools -> SQL Server Configuration Manager
- a. if you haven't done it during installation make sure SQL Agent is running and set to Automatic

b. Make sure both TCP/IP and Named Pipes are enabled.

Sql Server Configuration Manager				
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SQL Server Configuration Manager (Local) SQL Server Services SQL Server Network Configuration (32bk) SQL Server Network Configuration (32bk) SQL Server Network Configuration SQL Server Services Alases	Protocol Name TS-band Pipes T-Sand Pipes T-Spip T-Spi	Status Enabled Enabled Deabled Deabled		

2. Deploy CLR assembly. On new db servers you need to run the following sql commands under the Master in oder to set the dll's permissions (make sure the user running SQL services has change permissions on sqlclr.XmlSerializers.dll):

CREATE ASYMMETRIC KEY SQLCLRTestKey FROM EXECUTABLE FILE = '\\DB_SERVER\sqlclrDeploy\sqlclr.XmlSerializers.dll' CREATE LOGIN SQLCLRTestLogin FROM ASYMMETRIC KEY SQLCLRTestKey GRANT EXTERNAL ACCESS ASSEMBLY TO SQLCLRTestLogin

3. Enable xp_cmdshell and CLR Integration - run the following sql commands under the Master:

```
EXEC sp_configure 'show advanced options', 1
GO
RECONFIGURE
GO
EXEC sp_configure 'xp_cmdshell', 1
GO
EXEC sp_configure 'clr_enabled', 1
GO
RECONFIGURE
GO
```

Configuration: Reporting Services

Go to Start, All Programs, SQL Server 2008, Configuration Tools, Reporting Services Configuration Manager.

Make sure the report server is started:

Reporting Services Configuration Mana	ger: \MSSQLSERVER		
SQL Server 2008 R2 Reporting Services Configu	ration Manager		
Connect	Report Server Status		
Service Account	Use the Reporting Services Co Manager. If you installed Rep database, and the Report Man	nfiguration Manager tool to define or modify settings for the Repor orting Services in files-only mode, you must configure the Web serv ager URL.	t Server and Report rice URL, the
🧀 Web Service URL	Current Report Server		
🔰 Database	SQL Server Instance: Instance ID:	MSSQLSERVER MSRS10_50.MSSQLSERVER	
Report Manager URL	Edition: Product Version:	ENTERPRISE EDITION 10.50.1600.1	
🚖 E-mail Settings	Report Server Database Name: Report Server Mode:	ReportServer Native	
Execution Account	Report Service Status:	Started	
Encryption Keys		Start Stop	
الله Scale-out Deployment			
	Results		
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Under Services Accounts use a domain administrator user to run the service:

Reporting Services Configuration Man	ager: 1017,01049\MSSQLSERVER		_ 🗆 ×
Microsoft*			
Reporting Services Configu	uration Manager		
Reporting Services Cornigi	uration Manager		
🛃 Connect	Service Account		
TLVQAVM9\MSSQLSERVER			
Service Account	Specify a built-in acco	unt or Windows domain user account to run the report server service.	
	Ŭ		
🔊 Web Service URL	Report Server Service Account		
Database	Choose an option to set the servi		
	Use <u>puit-in account:</u> Use another account:	Network Service	Y
Report Manager URL	Account (Domain\user):		
🚖 E-mail Settings	Password:	••••••	
		1	
Execution Account			
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📩 Scale-out Deployment			
	Results		
			⊆ору
0			Apply <u>E</u> xit

In Web Service URL fill as the below:

Reporting Services Configuration	1anager: \MSSQLSER¥ER		_ [
Reporting Services Con	r figuration Manager		
Connect Conne	Web Service URL Image: Configure a URL used to access instance, or to specify additional prector service Virtual Director Virtual Directory: Report Server Web Service Virtual Directory: Report Server Web Service Site identificat IP Address: Image: Port image: Provide Service Site identification	y	
Execution Account Encryption Keys	Report Server Web Service URLs	p://%_%_%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	
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)		Apply	<u>E</u> xit

In Database:

teport Server Database (Configuration Wizard
Change Database	
Choose whether to create of	or configure a report server database.
Action	Select one of the following options to create an empty report server database or select
Database Server	an existing report server database that has content you want to use.
Database	
Credentials	Select a task from the following list:
Summary	
Progress and Finish	Create a new report server database.
	C Choose an existing report server database.
0	Previous <u>N</u> ext <u>Cancel</u>

Change Database		
-		
Choose whether to create a	or configure a report server database.	
Action		
Database Server	Choose a local or remote instance credentials that have permission to	of a SQL Server Database Engine and specify connect to that server.
Database		
Credentials	Connect to the Database Server:	
	Connect to the Database Server:	
Summary	<u>S</u> erver Name:	
Progress and Finish	<u>A</u> uthentication Type:	SQL Server Account
	<u>U</u> sername:	sa
	Pass <u>w</u> ord:	•••••
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Change Database		
-	or configure a report server database.	
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-		language to use for running SQL scripts, and specify
Choose whether to create of		language to use for running SQL scripts, and specify native or SharePoint mode.
Choose whether to create of Action	Enter a database name, select the	language to use for running SQL scripts, and specify native or SharePoint mode.
Choose whether to create of Action Database Server	Enter a database name, select the	language to use for running SQL scripts, and specify native or SharePoint mode.
Choose whether to create of Action Database Server Database	Enter a database name, select the whether to create the database in r	native or SharePoint mode.
Choose whether to create of Action Database Server Database Credentials	Enter a database name, select the whether to create the database in r Database Name:	hative or SharePoint mode.
Choose whether to create of Action Database Server Database Credentials Summary	Enter a database name, select the whether to create the database in r Database Name: Temp Database Name:	hative or SharePoint mode. ReportServer ReportServerTemp
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Report Server Database Conf	iguration Wizard		×
Change Database			Š.
Choose whether to create or co	nfigure a report server database.		
			100
Action	Specify the credentials of an existir	ng account that the report server will use to connect to	
Database Server		ssion to access the report server database will be	
Database			
Credentials			
Summary	Credentials:		
Progress and Finish			
	Authentication Type:	Service Credentials	
	User name:	SQLServiceAccount	
	Password:		
			-
0		Previous <u>N</u> ext <u>C</u> ancel	

In Report Manager URL:

Reporting Services Configuration Man	ager: \MSSQLSER¥ER	_ 🗆 🗙
Reporting Services Configu	uration Manager	
Connect Connec	Report Manager URL Image: Configure a URL to access Report Manager. Click Advanced to define multiple URLs, or to specify additional parameters on the URL. Report Manager Site Identification Virtual Directory: Reports URLs: http://Sav.tb.80/Reports	
	Results	зý
0	Apply	<u>E</u> xit

Point the browser to //<dbserver>/reports

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Note: If there is a problem to access this for	lder and you keep having to enter your user and	domain credentials	and eventually get
lank screen, do the following: In rsreportse	erver.config remove the value RSWindowsNegotia	ate and ensure RSV	NindowsNTLM is
pecified. (There is more information about	this problem and some other solutions at		
ttp://bloge.medn.com/b/lukaezn/archive/20	08/03/26/solving-the-reporting-services-login-issu	e-in-the-february-c	tp-of-sql-server-200
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To enable remote access through SQL Management studio when Windows Firewall is on follow instructions at http://msdn.microsoft.com/en-us/library/ms175043.aspx

SQL Server Configuration Best Practices

Memory Usage - if not limited SQL server will consume all available memory, therefore it is recommended to limit the memory usage of the SQL Server,

It can be done by limiting the max server memory

It is important to note that the **max server memory** is not all the memory used by SQL Server process and therefore it is recommended to set that to 2-4GB less than the desired size

The following example sets the max server memory option to 4 GB:

```
sp_configure 'show advanced options', 1;
GO
RECONFIGURE;
GO
sp_configure 'max server memory', 4096;
GO
RECONFIGURE;
GO
```

see more details at http://msdn.microsoft.com/en-us/library/ms178067.aspx

The users can alos change the max server memory setting using GUI by right click on the server name -> properties -> memory

Recovery Model

It is recommended to set the recovery model to simple in order to save disk space

🧾 Database Properties - spee	chminer_ver7_2			_ 🗆 ×
Select a page	🔄 Script 👻 📑 Help			
🚰 General				
🚰 Files	Collation:	SQL_Latin1_Ger	neral CP1 CLAS	_
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Poptions Contract Con	Recovery model:	Simple		_
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T Extended Properties				
Minoring Transaction Log Shipping	Other options:			
a mansaction Log shipping	2 ↓			
	🗆 Automatic			_
	Auto Close		False	
	Auto Create Statistics		True	
	Auto Shrink		False	
	Auto Update Statistics		True	
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	Cursor			
	Close Cursor on Commit Enabled False			
	Default Cursor GLOBAL			
	Miscellaneous ANSI NULL Default		False	_
	ANSI NULL Derault ANSI NULLS Enabled		False	
Connection	ANSI NULLS Enabled		False	
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server.	Arithmetic Abort Enabled		False	
-	Concatenate Null Yields N	ıll	False	
Connection: sa	Cross-database Ownership			
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View connection properties	Numeric Round-Abort		False	
	Parameterization		Simple	
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			OK.	Cancel

AutoGrowth

the default Autogrowth in SQL2008R2 is to enable Autogrowth of 1 Megabytes

E Change Autogrowth for data	_ver7_2
✓ Enable Autogrowth	
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🔘 In Percent	10 🜲
 In Megabytes 	1 🗘
Maximum File Size	
 Restricted File Growth (MB) 	100 🜲
 Unrestricted File Growth 	
	OK Cancel

we recommend changing that to 5 or 10 Percent.

Change Autogrowth for data	_ver7_2	
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File Growth		
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Maximum File Size		
O Restricted File Growth (MB)		100 🜲
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