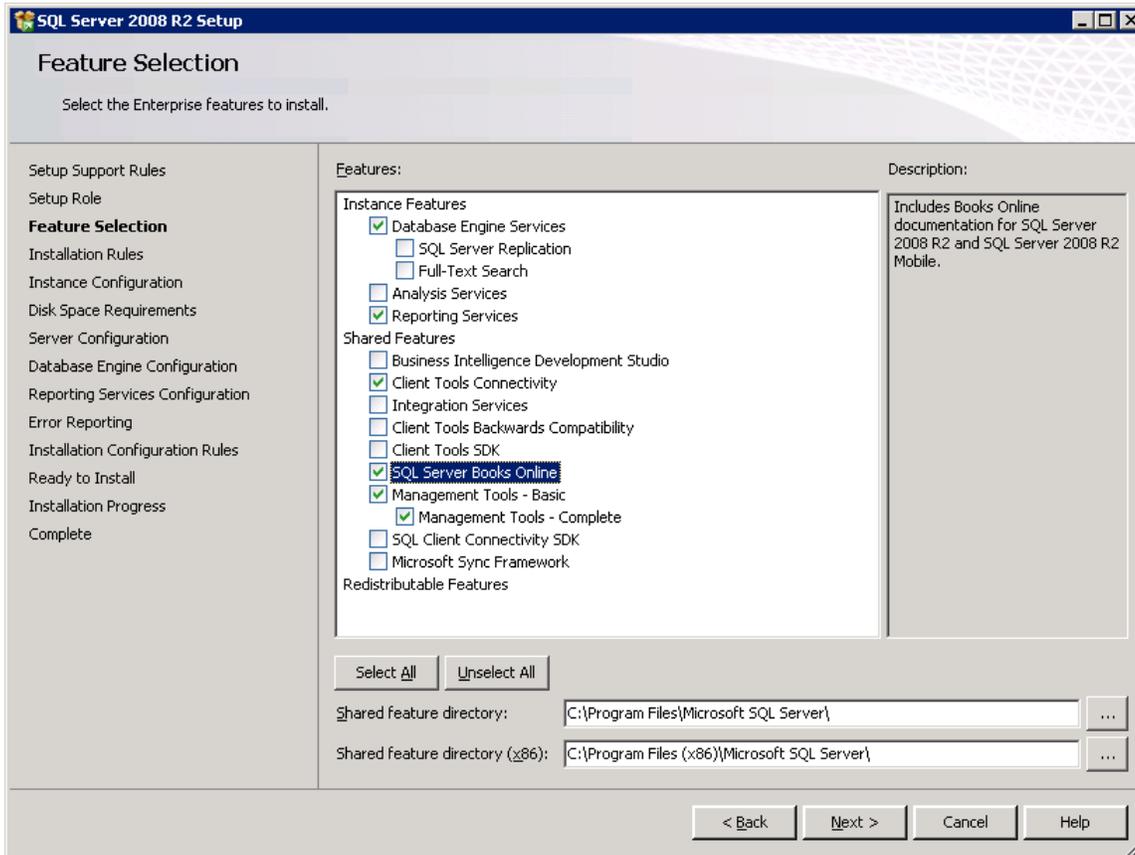
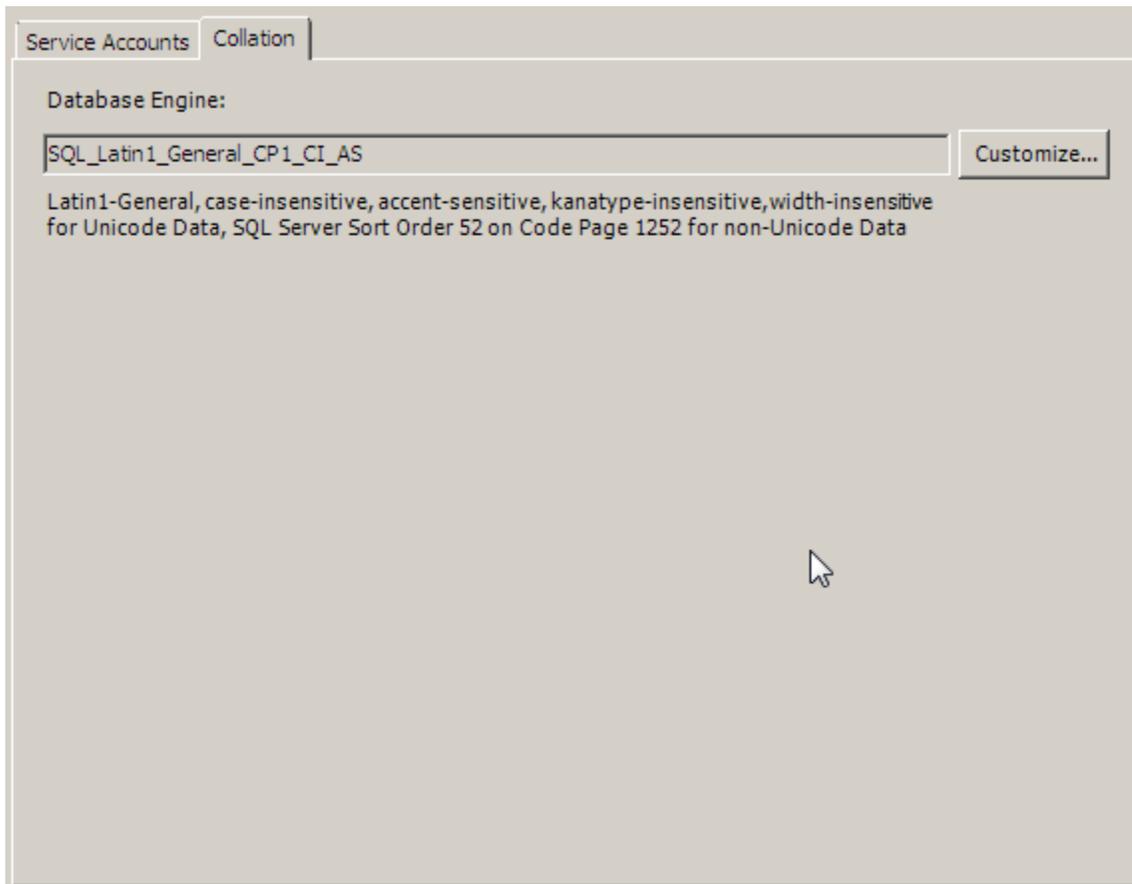
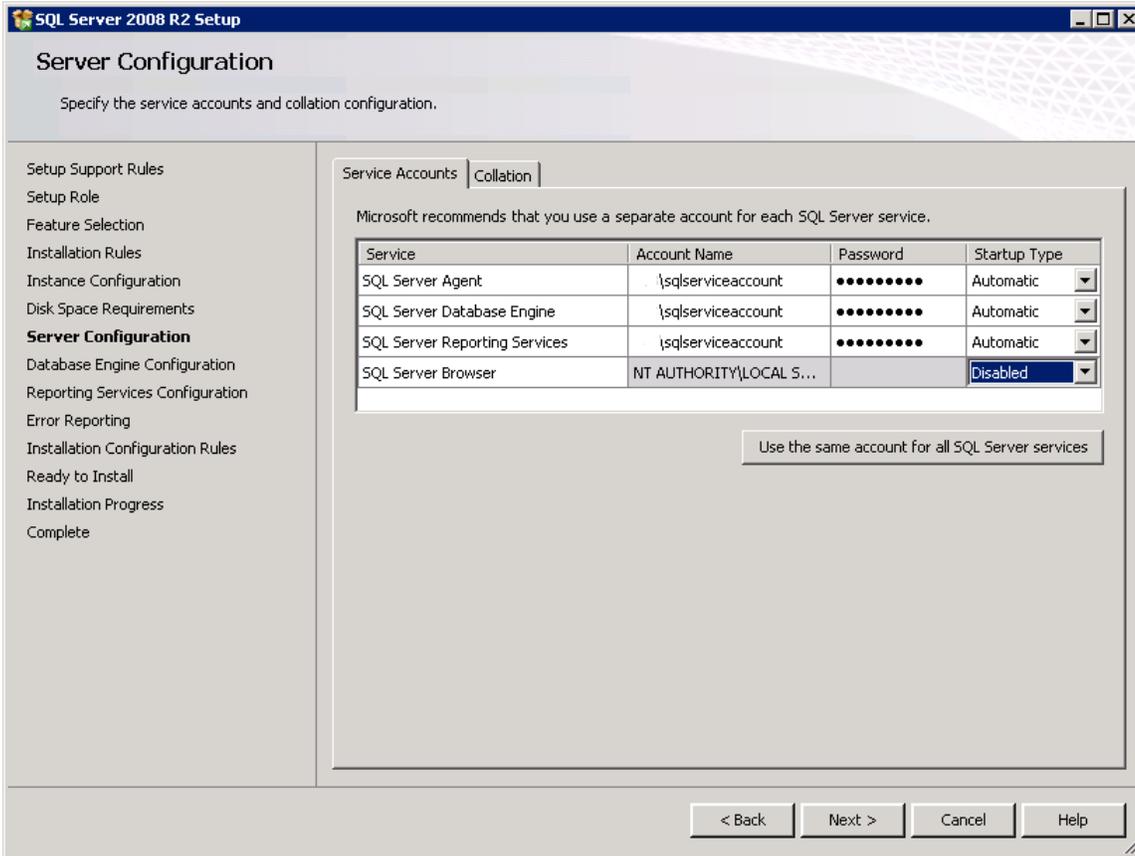
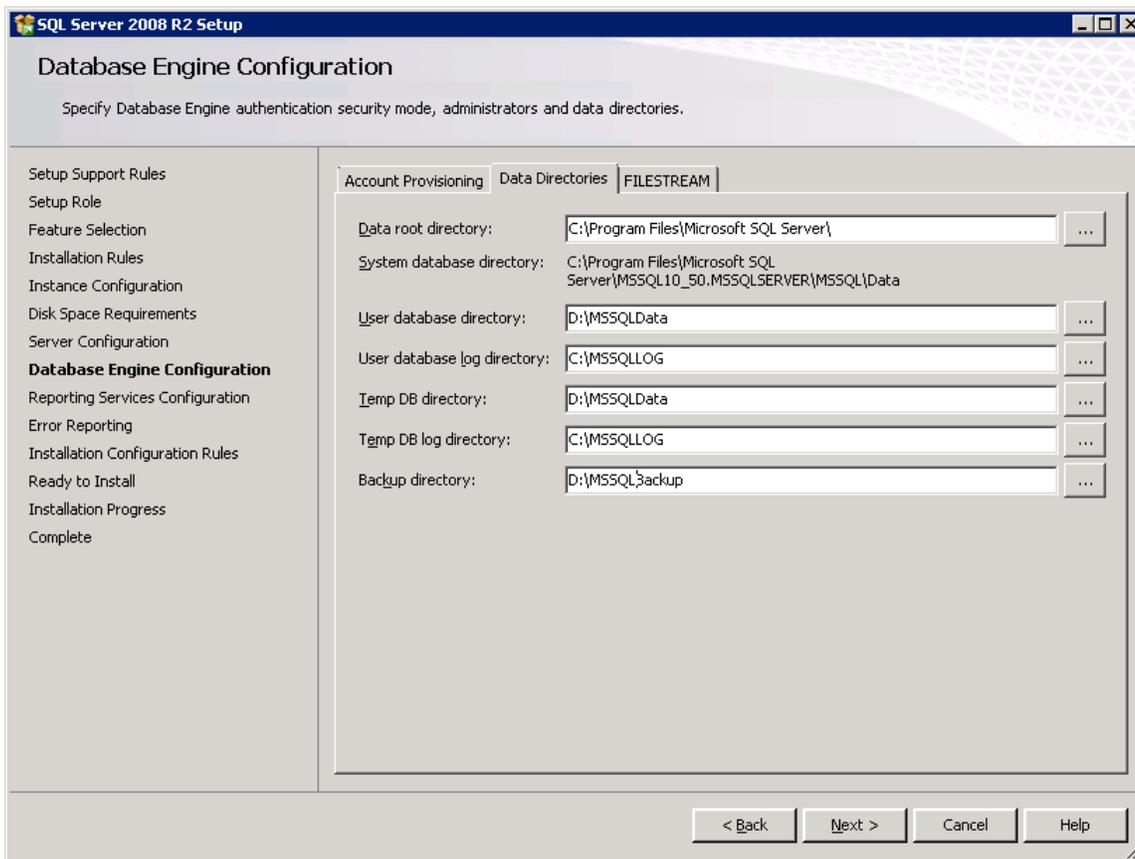


# SQL2008 Server Installation and Configuration for SpeechMiner

## SQL 2008 Enterprise Edition Installation:



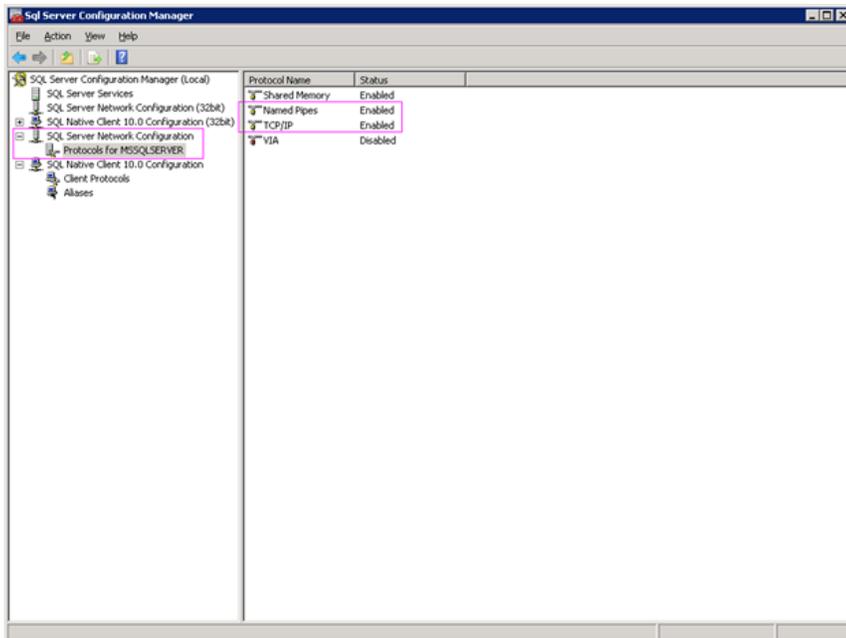




Don't forget to restart the machine after the SQL installation is completed.

## 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.



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

```
use [master]
CREATE ASYMMETRIC KEY SQLCLRTestKey FROM EXECUTABLE FILE =
'\\Machine_Name\c$\utopy\Software\Support\sqlclr.XmlSerializers.dll'
GO
use [master]
CREATE LOGIN SQLCLRTestLogin FROM ASYMMETRIC KEY SQLCLRTestKey
GO
use [master]
GRANT EXTERNAL ACCESS ASSEMBLY TO SQLCLRTestLogin
```

In case the following error occurs

The certificate, asymmetric key, or private key file does not exist or has invalid format

Try to change the path to point at the local drive e.g. 'c:\utopy\Software\Support\sqlclr.XmlSerializers.dll'

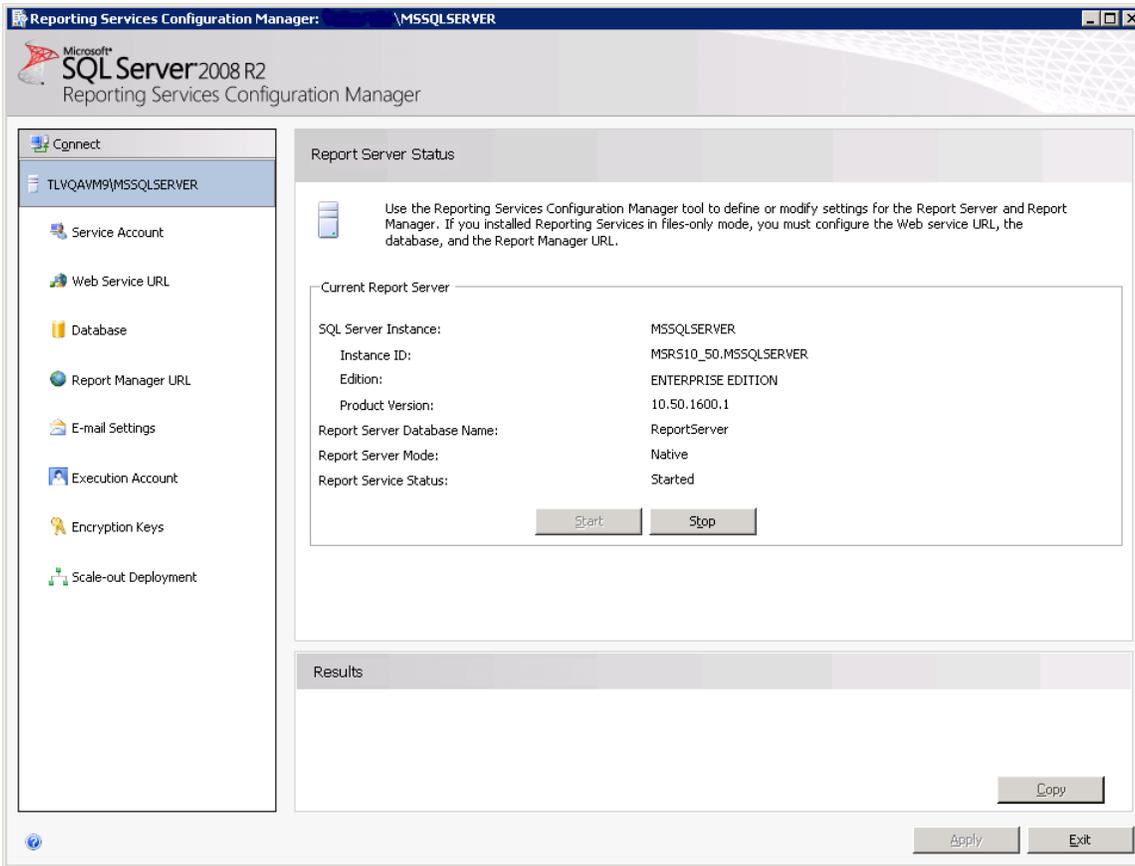
3. Enable **xp\_cmdshell** and **CLR Integration** - run the following sql commands under the Master:

```
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
```

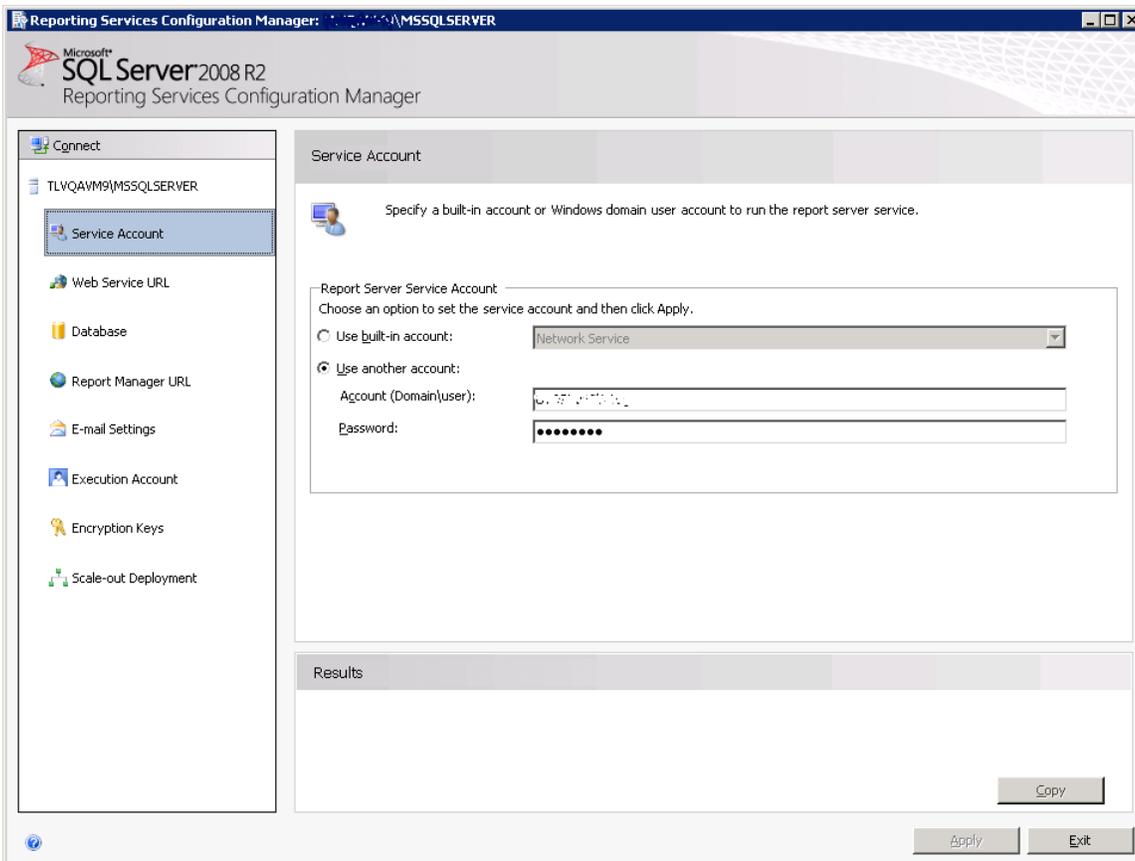
## Configuration: Reporting Services

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

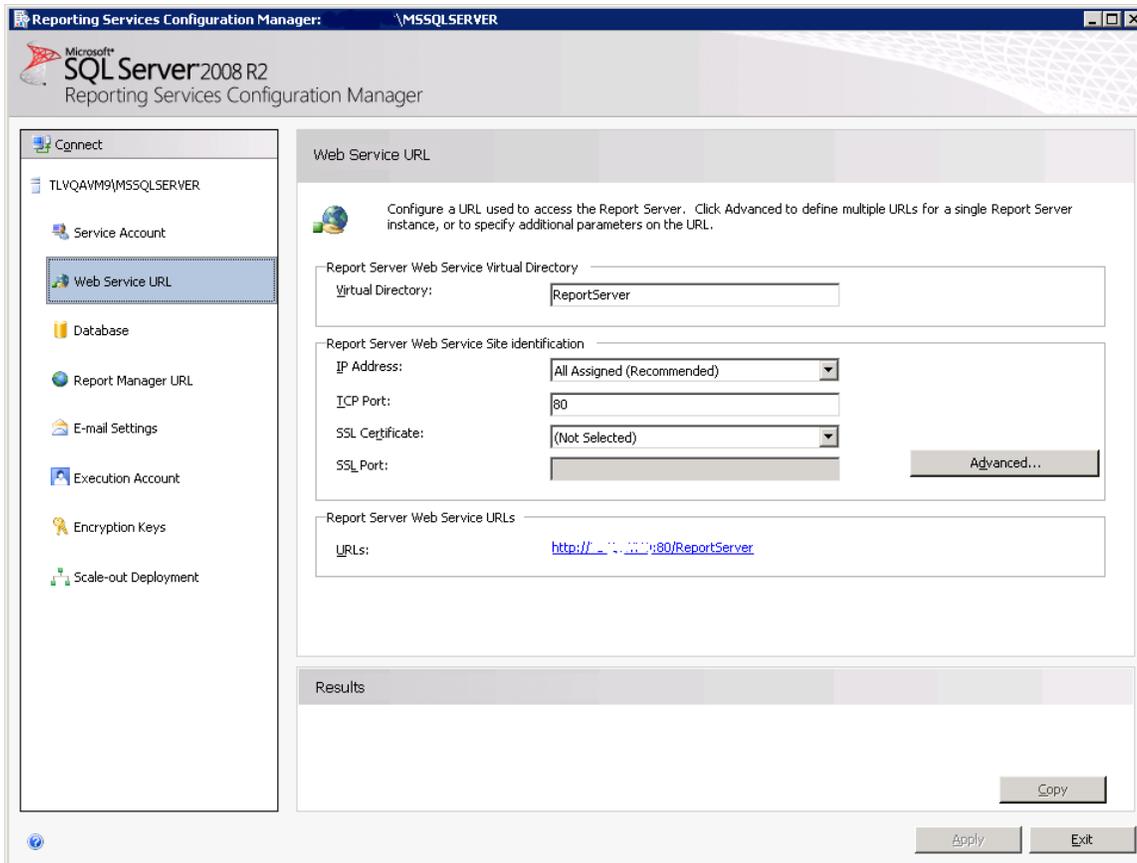
Make sure the report server is started:



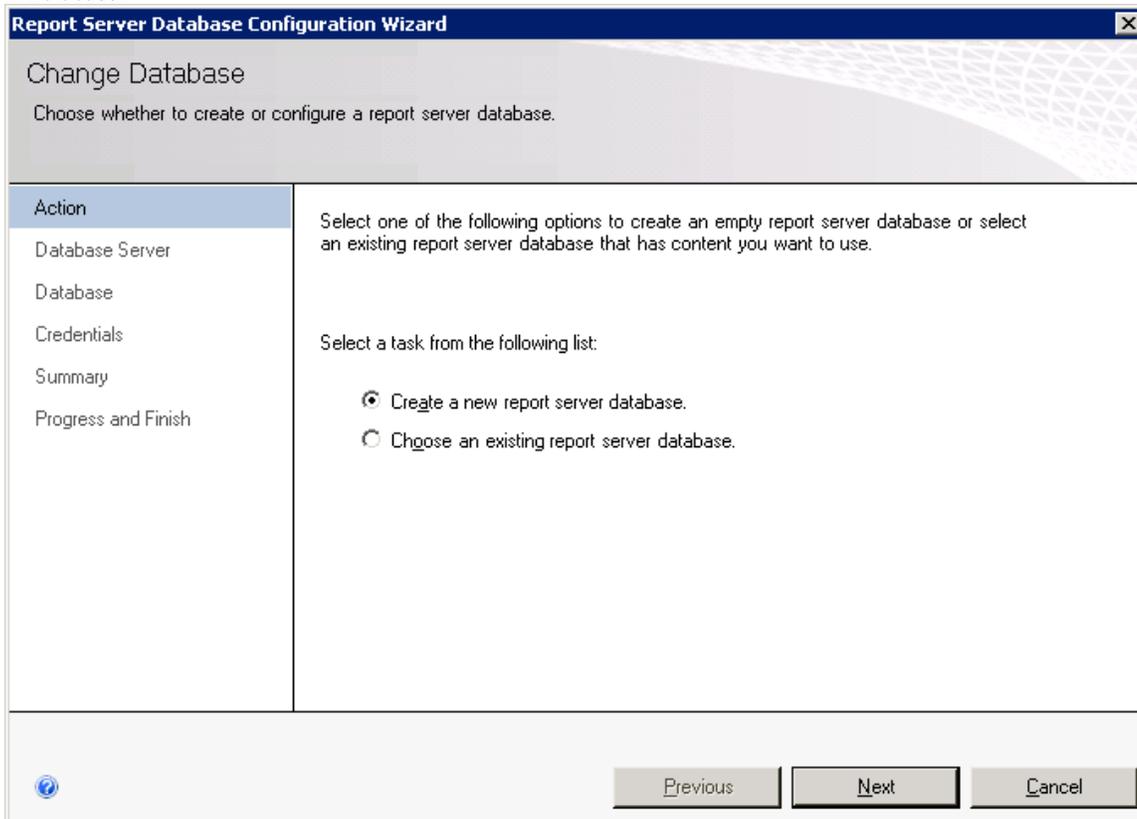
Under Services Accounts use a local administrator user or a user that can log on as a service and run services on the local machine:



In Web Service URL fill as the below:



In Database:



**Report Server Database Configuration Wizard** [X]

### Change Database

Choose whether to create or configure a report server database.

|                        |  |
|------------------------|--|
| Action                 | Choose a local or remote instance of a SQL Server Database Engine and specify credentials that have permission to connect to that server.<br><br>Connect to the Database Server:<br><br>Server Name: <input type="text"/><br>Authentication Type: <input type="text" value="SQL Server Account"/><br>Username: <input type="text" value="sa"/><br>Password: <input type="password" value="....."/><br><input type="button" value="Test Connection"/> |
| <b>Database Server</b> |  |
| Database               |  |
| Credentials            |  |
| Summary                |  |
| Progress and Finish    |  |

[?]

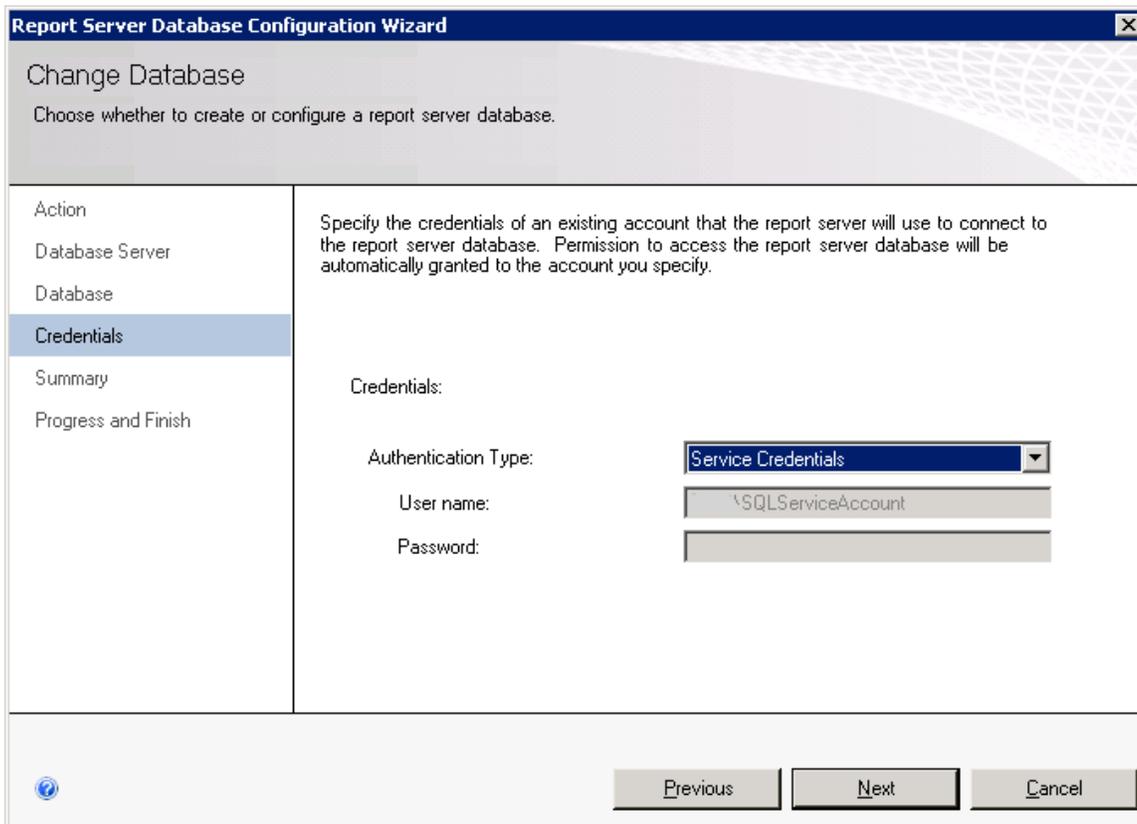
**Report Server Database Configuration Wizard** [X]

### Change Database

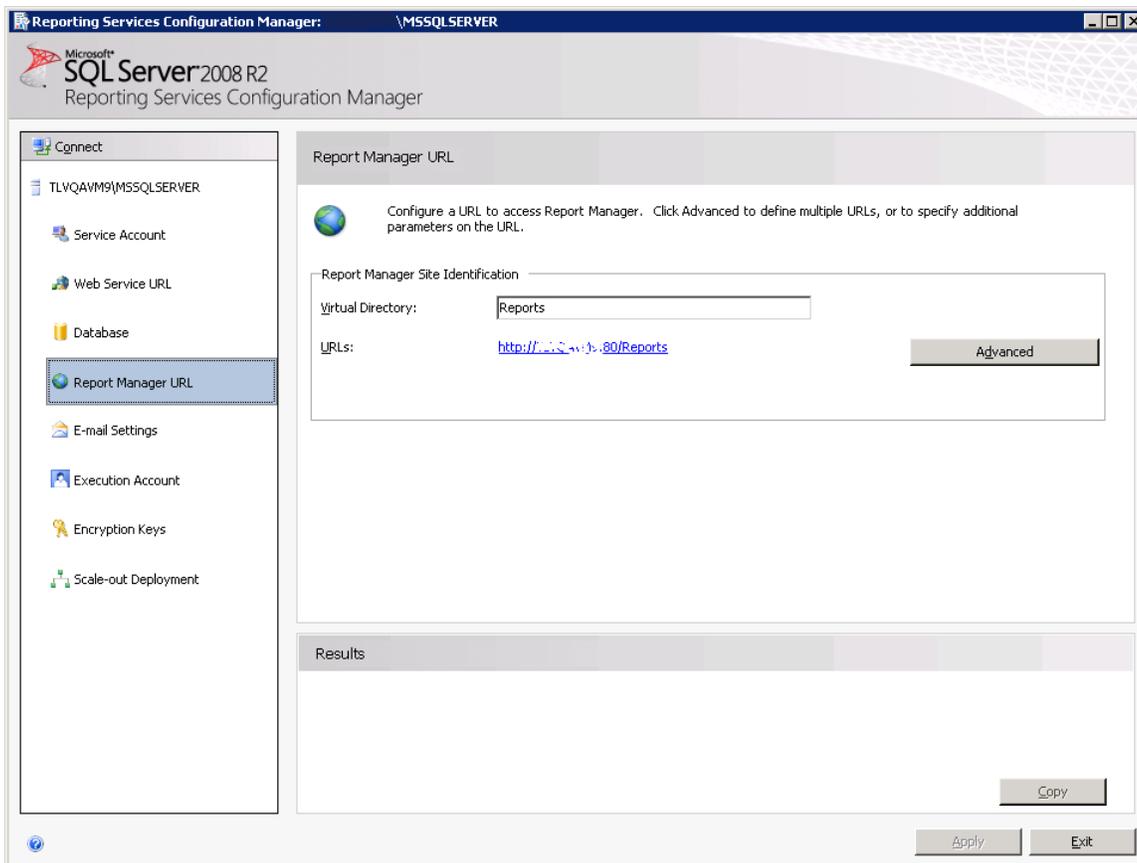
Choose whether to create or configure a report server database.

|                     |   |
|---------------------|---|
| Action              | Enter a database name, select the language to use for running SQL scripts, and specify whether to create the database in native or SharePoint mode.<br><br>Database Name: <input type="text" value="ReportServer"/><br>Temp Database Name: <input type="text" value="ReportServerTemp"/><br>Language: <input type="text" value="English (United States)"/><br>Report Server Mode:<br><input checked="" type="radio"/> Native Mode<br><input type="radio"/> SharePoint Integrated Mode |
| Database Server     |   |
| <b>Database</b>     |   |
| Credentials         |   |
| Summary             |   |
| Progress and Finish |   |

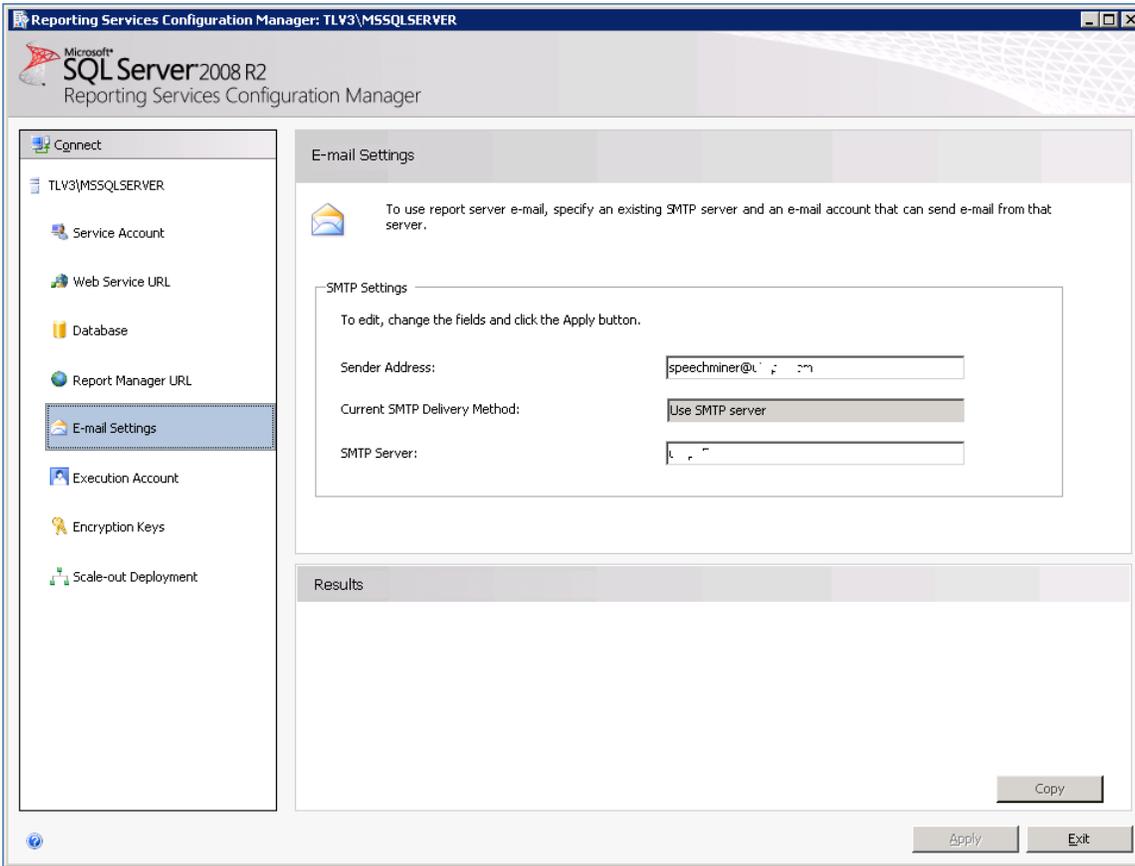
[?]



In Report Manager URL:

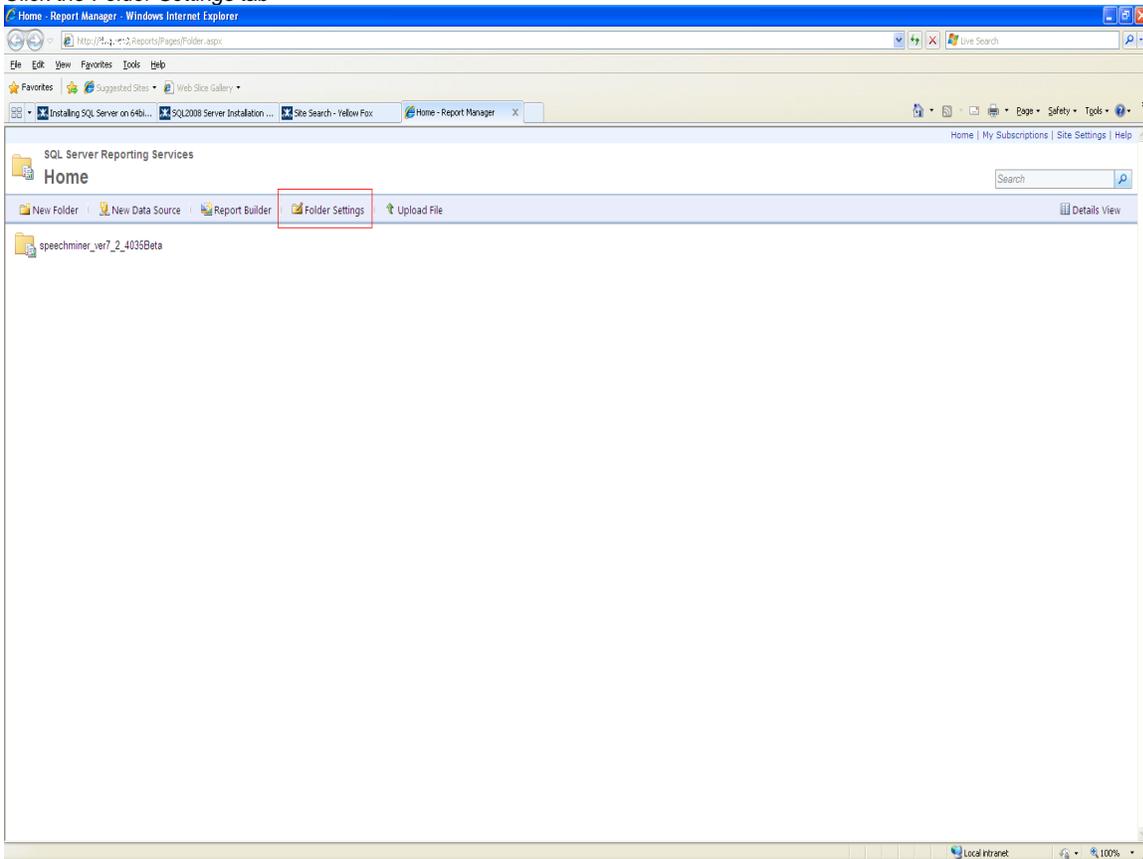


In E-mail Settings:



Point the browser to `\\<dbserver>/reports`

1. Click the *Folder Settings* tab



- 2.

Note: If there is a problem to access this folder and you keep having to enter your user and domain credentials and eventually get a blank screen, do the following: In rsreportserver.config remove the value RSWindowsNegotiate and ensure RSWindowsNTLM is specified. (There is more information about this problem and some other solutions at <http://blogs.msdn.com/b/lukaszp/archive/2008/03/26/solving-the-reporting-services-login-issue-in-the-february-ctp-of-sql-server-2008.aspx>)

3. If the domain user used by SpeechMiner is not on the list, click on *New Role Assignment*, otherwise *Edit* the existing account
4. Give the account *Content Manager* role. Go to <http://SQLServer/reports>, click on speechminer database, click on sme, click on Security tab, click on New Role Assignment, type in user name, select Content Manager check box and click OK.

Home

SQL Server Reporting Services

## New Role Assignment

Use this page to define role-based security for Home.

Group or user name:

Select one or more roles to assign to the group or user.

| Role  | Description   |
|---|---|
| <input type="checkbox"/> Browser                    | May view folders, reports and subscribe to reports.   |
| <input checked="" type="checkbox"/> Content Manager | May manage content in the Report Server. This includes folders, reports and resources.                      |
| <input type="checkbox"/> My Reports                 | May publish reports and linked reports; manage folders, reports and resources in a users My Reports folder. |
| <input type="checkbox"/> Publisher                  | May publish reports and linked reports to the Report Server.  |
| <input type="checkbox"/> Report Builder             | May view report definitions.  |

OK Cancel

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>

Otherwise, you may not be able to connect with SQL Management studio from your computer to the SQL server remotely.

## 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:

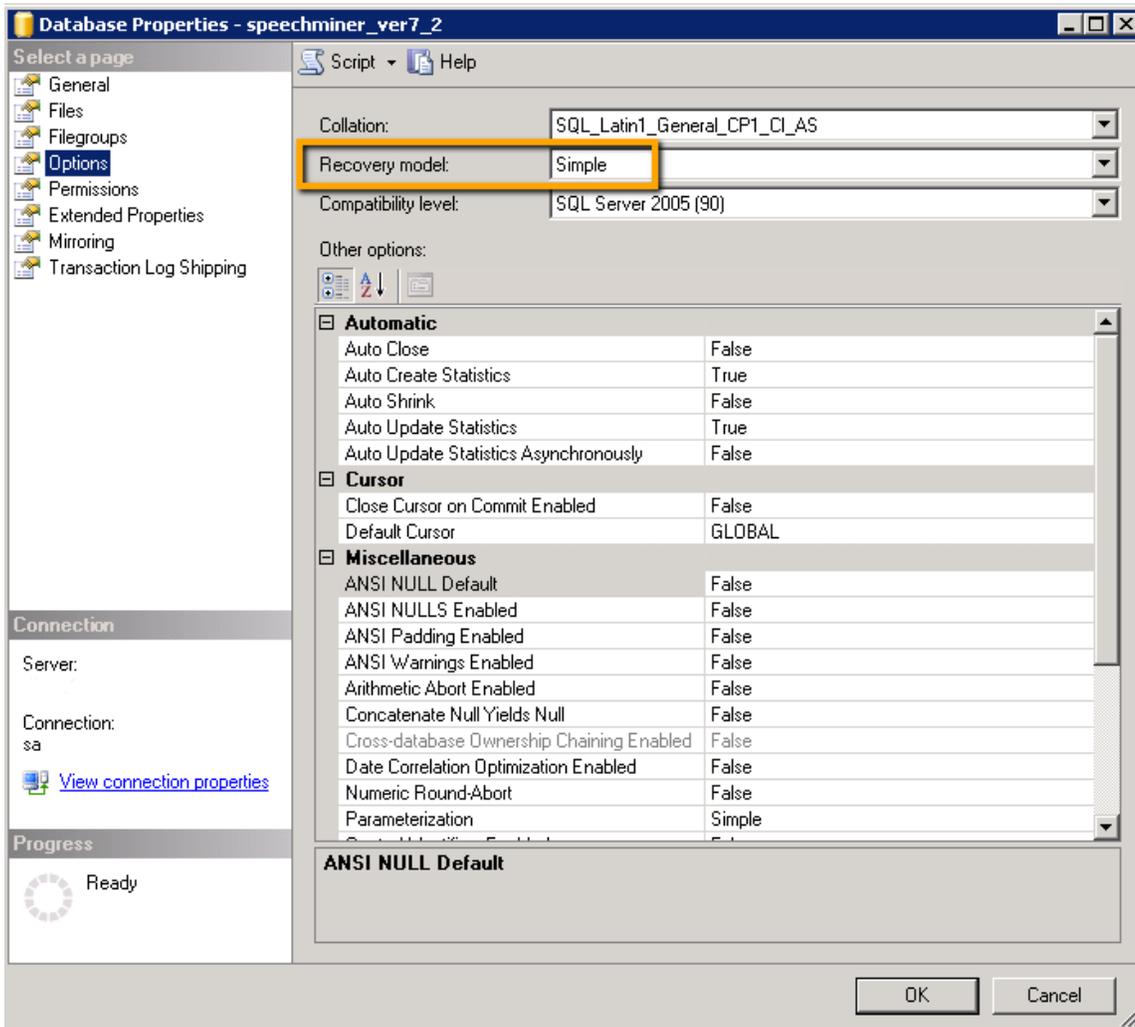
```
sp_configure 'show advanced options', 1;
GO
RECONFIGURE;
GO
sp_configure 'max server memory', 4096;
GO
RECONFIGURE;
GO
```

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

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

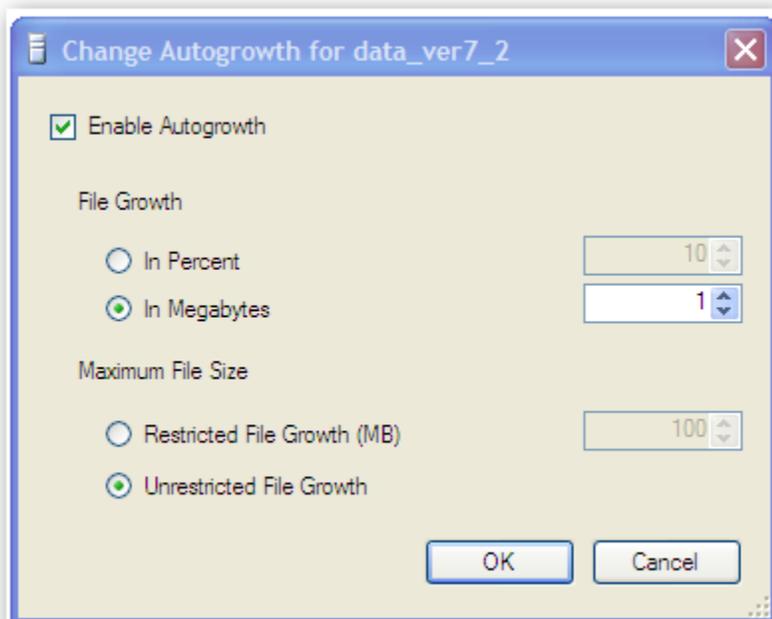
### Recovery Model

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



## AutoGrowth

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



we recommend changing that to 5 or 10 Percent.

