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SQL Server 2008 Database

Installation & application



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1 SQL Server 2008 Installation

1.1 Installation Environment Requirements

Component	Requirement
Framework	SQL Server Setup installs the following software components required by the product: .NET Framework 3.5 SP11 SQL Server Native Client SQL Server Setup support files
Processor	Processor type: Pentium III-compatible processor or faster Processor speed: Minimum: 1.0 GHz Recommended: 2.0 GHz or faster
Memory	RAM: Minimum: 512 MB Recommended: 2.048 GB or more Maximum: Operating system maximum

1.2 Installation Steps

The following images show how to install SQL Server 2008.

1. Locate and double-click Setup.exe to begin the installation. The following message will appear on your screen.

Click OK to proceed to the installation of the prerequisites specified.

2. Read the license agreement and if you agree with it, select the "I have read and accept the terms of the License Agreement" radio button, and then click the Install button.

The below screen shows that Setup has started to download software needed to start the installation.

3. Once the Setup program completes the Framework installation, the screen above will appear on your screen. Click the "Exit" button to complete this stage.

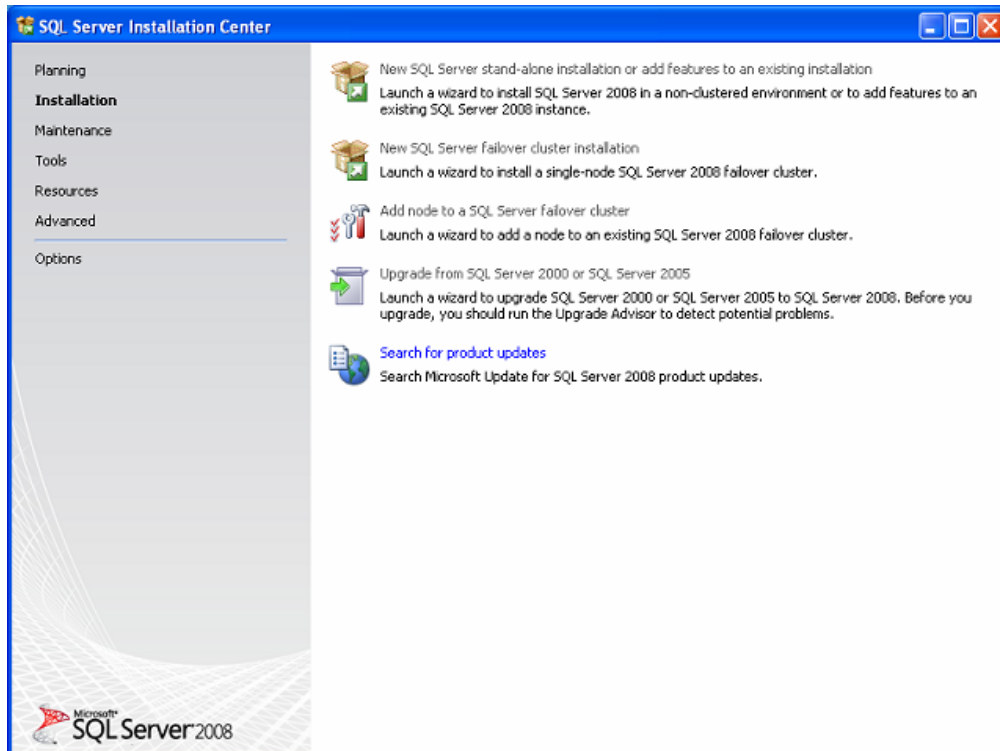
4. The below screen belongs to the wizard used to install the Windows Installer 4.5, required by Microsoft SQL Server. For more information about this update click [here](#). To continue the installation of this update on the "Next" button.

5. Select the "I agree" radio button and click on Next. Then, click on "Continue" in the below screen.

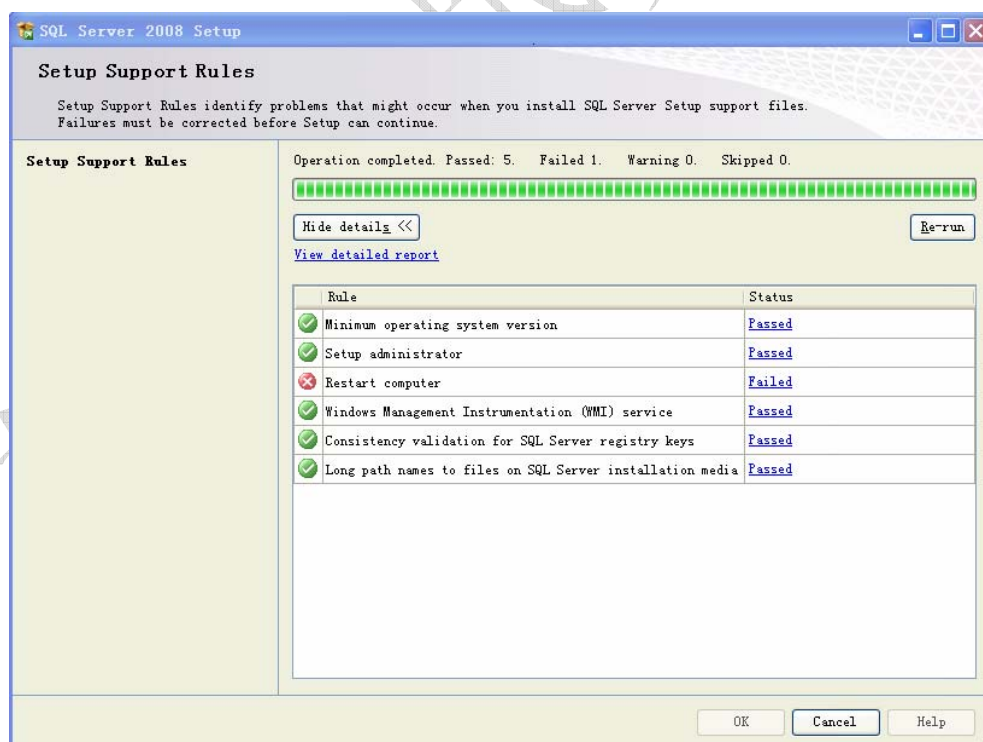
6. Click on the "Finish" button to restart your machine.
7. After restarting your computer, run Microsoft SQL Server 2008 setup again. The SQL Server Installation Center screen will show up.
8. Make a click on the "Installation" hyperlink in the left side of the screen.



9. This screen shows the types of installation available. Select the first type available "New SQL Server stand-alone installation or add features to an existing installation".



10. The below screens belong to the first set of Setup Support Rules. Attention, it appears an error.



The solution is as follows:

Open the registry editor (regedit.exe), find “PendingFileRenameOperations” project in “HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager”, and then delete it.

Note: Don't have to restart the computer, continue with the installation.

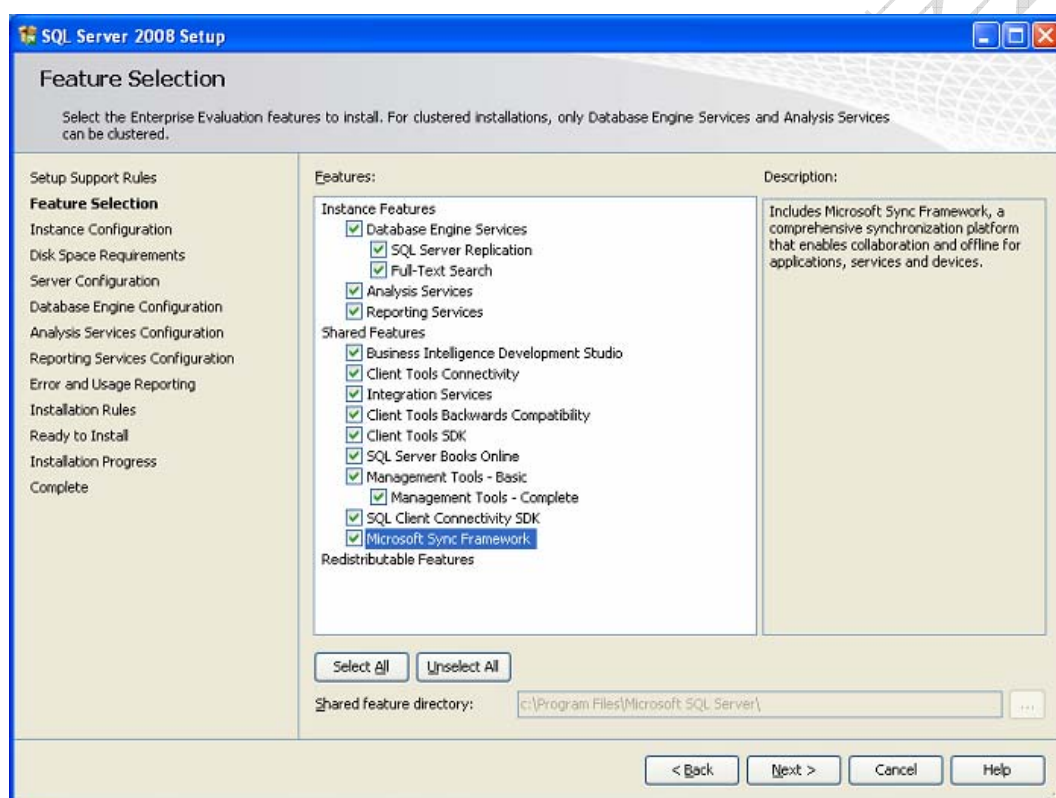
11. Enter the product key; different keys belong to different editions.

12. Check the "I accept the license terms" check box, and then click the Next button.

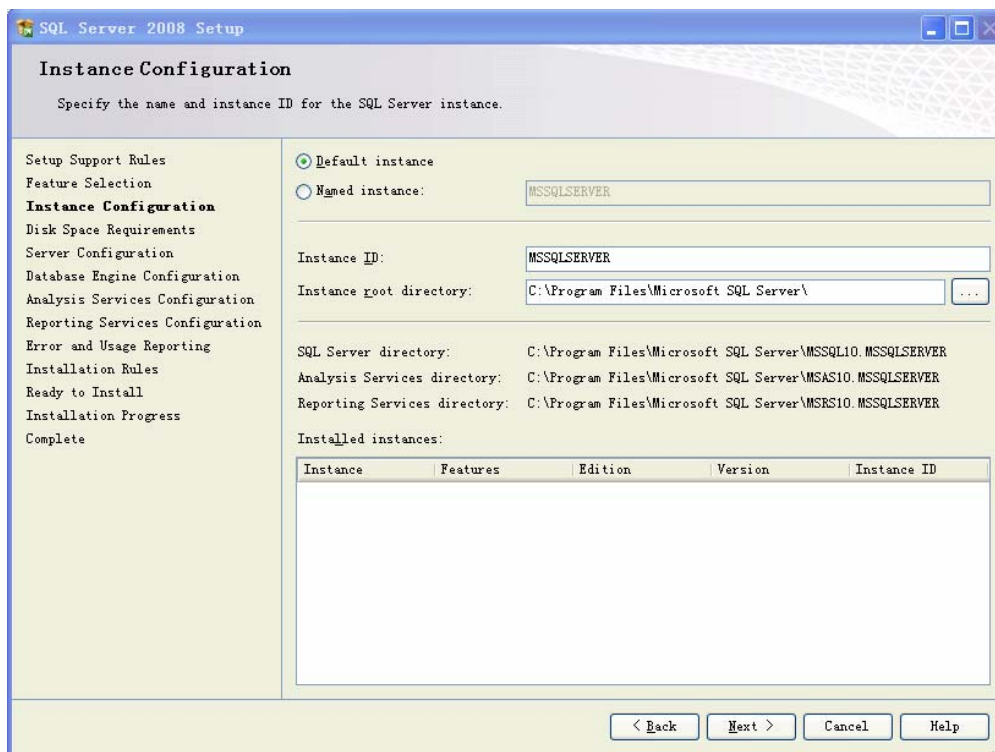
13. After performing windows installer actions, click the Install button.

14. The below screens belong to the second set of Setup Support Rules.

15. On the Feature Selection page, select the features for your installation. We chose all features usully. Then click the Next button.

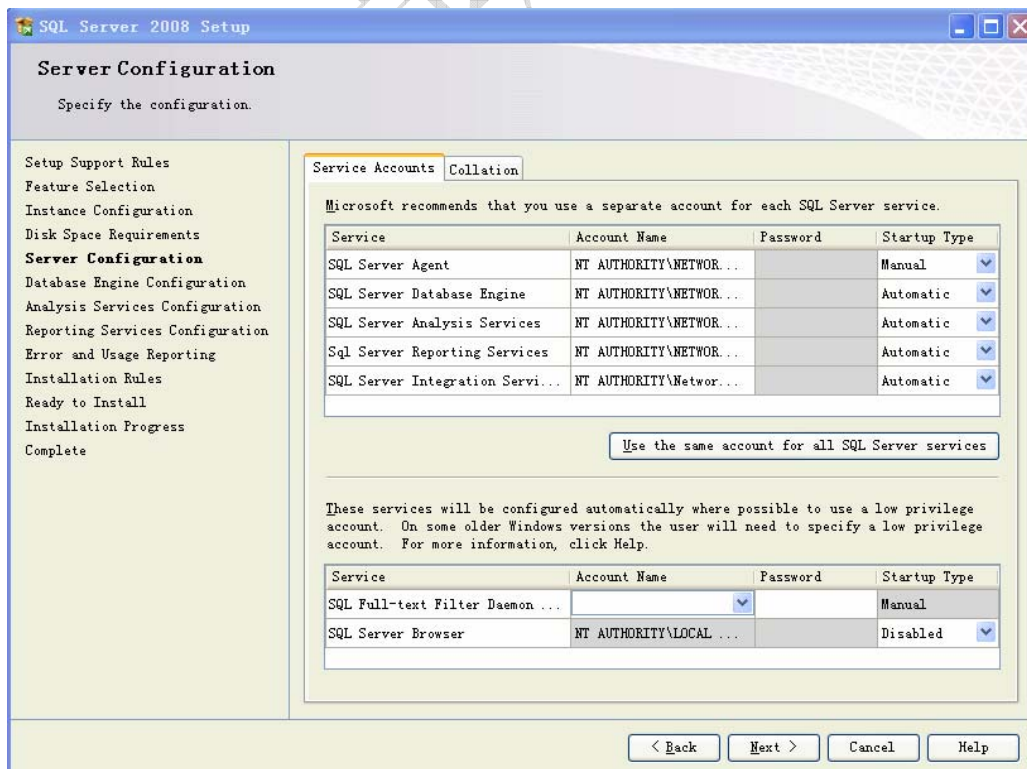


16. On the Instance Configuration page, select a default or named instance for your installation, and select directory where you want to install features you have chosen.

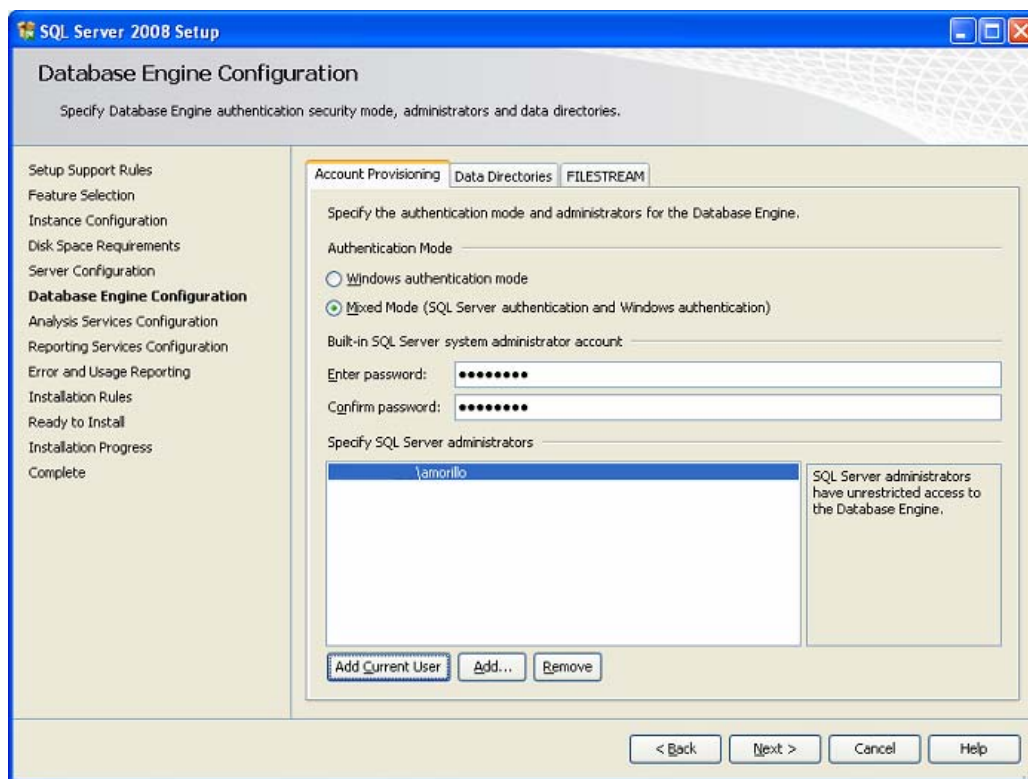


17. This page is just for the purpose of reviewing disk usage. Click on the "Next" button to continue setup.

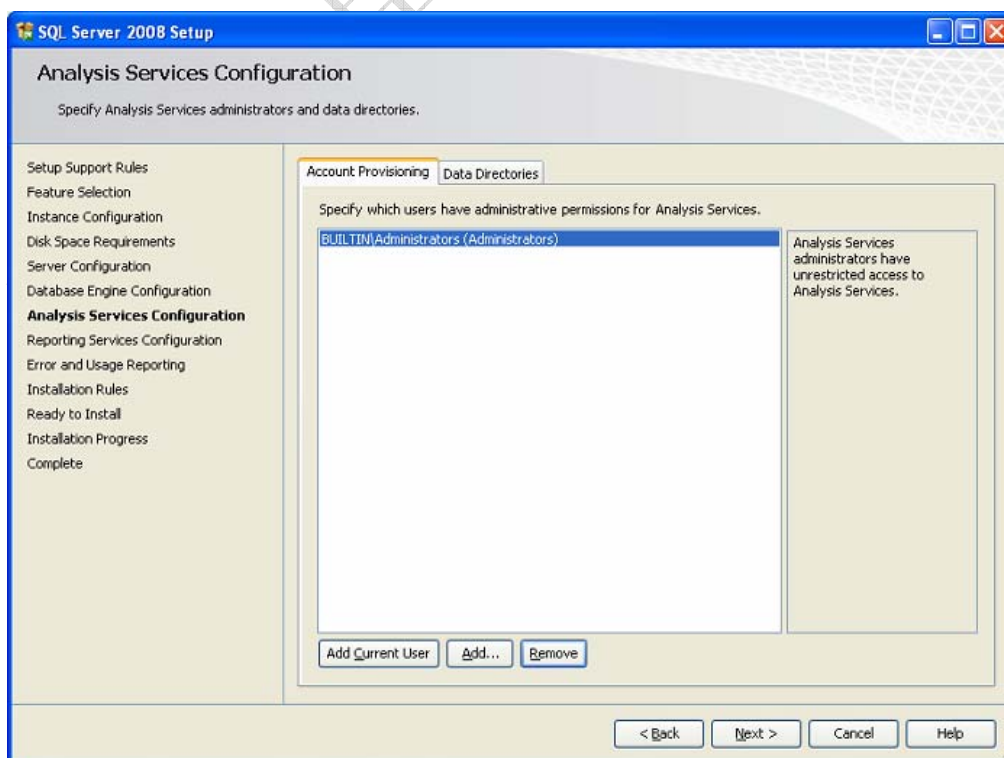
18. For the purpose of this article, we chose to use the same service account for all services, thus we click on the "Use the same account for all SQL Server services" button.



19. Choose Mixed Mode, enter and confirm the password for the account login. then click the buttons "Add Current User" to provide at least one account that will have unrestricted access to the SQL Server instance. After these operations, you can click on "Next".



20. On this page, provide user account that will be Analysis Services administrators. We usually click the buttons "Add Current User" directly.



21. Chose "Install the native mode default configuration".
22. On the Error and Usage Reporting page, optionally clear each check box to disable error reporting.
The below dialog belongs to the Setup Installation Rules.
23. On the Ready to install page, review the summary of features and components for your SQL Server installation. To proceed, click Install.
24. On the Installation Progress page, you can monitor installation progress as Setup proceeds. You will wait at least 20 minutes until it was completed.
25. Click on the "Next" button, when Setup process complete.
26. On the Completing the Microsoft SQL Server Installation Wizard page, you can view the Setup summary log by clicking the link provided on this page. To exit the SQL Server Installation Wizard, click Close.
27. Close the SQL Server Installation Center and open the SQL Server Configuration Manager.

2 SQL Server 2008

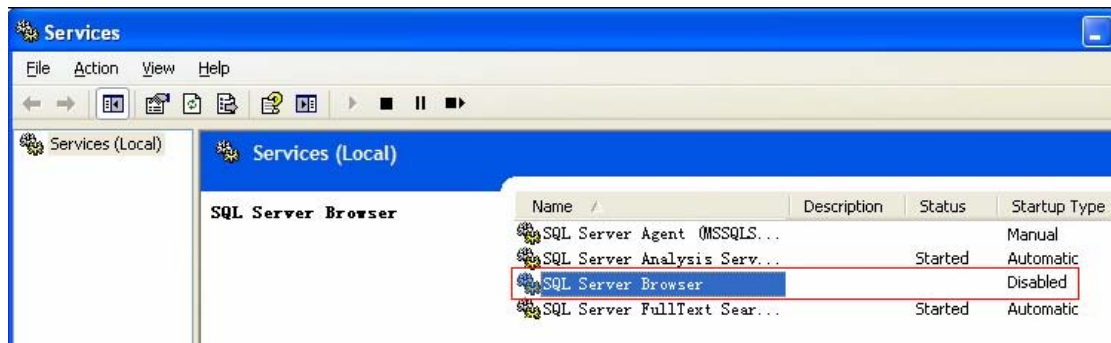
SQL Server is the database server. After the installation is finished, we need to start the server to connect and operate by client.

After SQL Server is installed, the server is started automatically by default (start with the Windows operating system). Therefore, the server is no need to starte again. Of course we can set startup type (automatic start, manual start, etc).

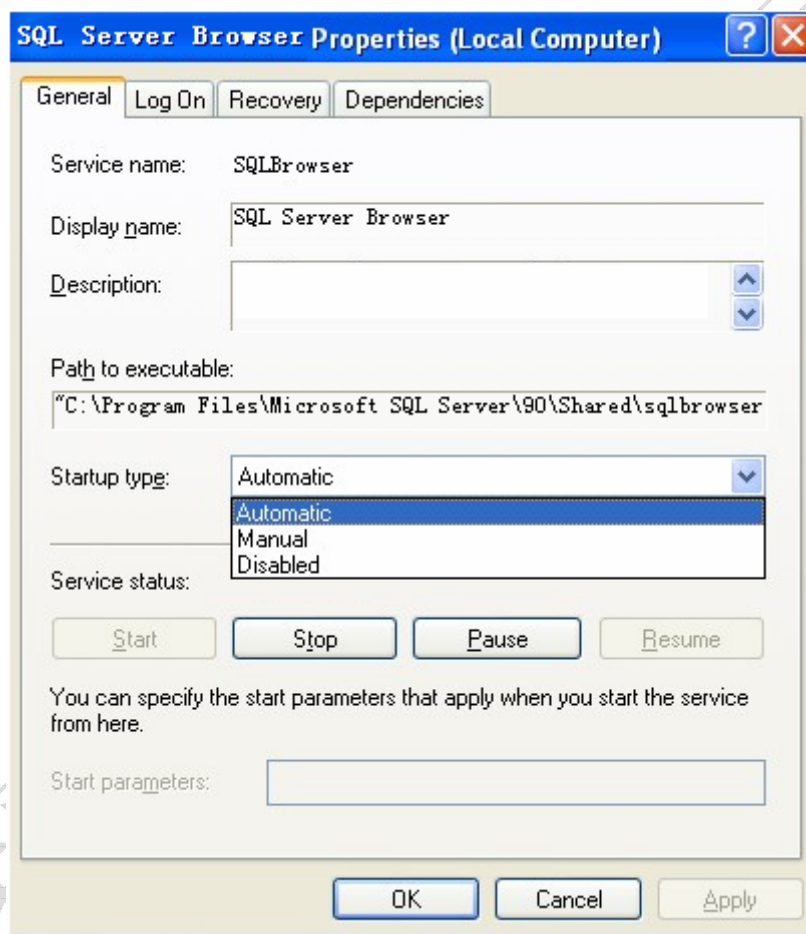
SQL Server 2008 does not allow remote connection by default, if want to connect SQL Server 2008 in remote server on the local by SQL Server Management Studio (SSMS), we need to do some configuration.

2.1 Server Configuration

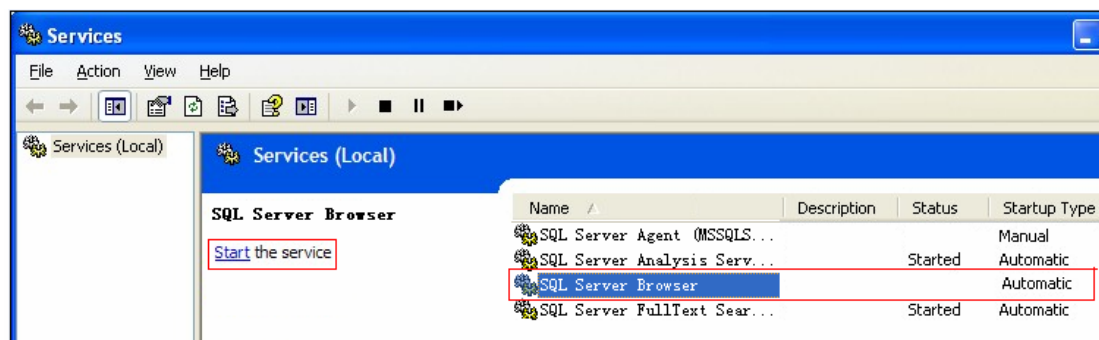
1. Open the Control panel-> Administrative tool-> Services; locate the SQL Server Browser service. As shown in the following figure:



2. Select SQL Server Browser, right click and select Properties, select automatic in the startup type column, and then click OK.

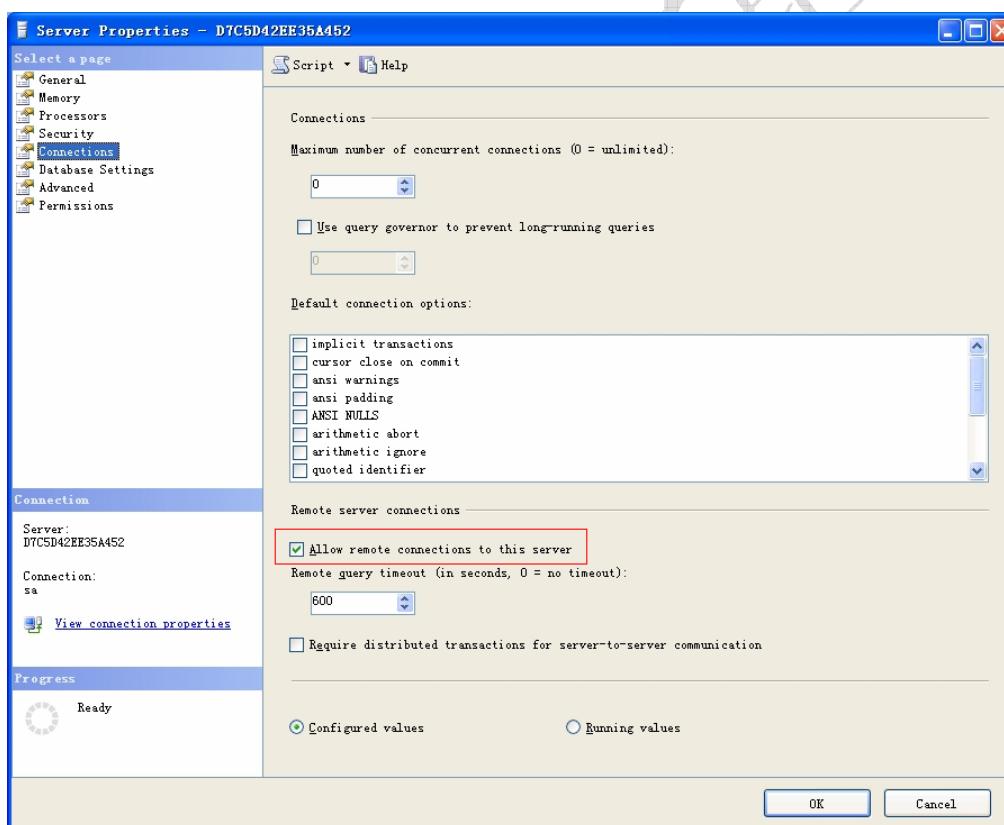


3. Click to start this service, start the SQL Server Browser service.

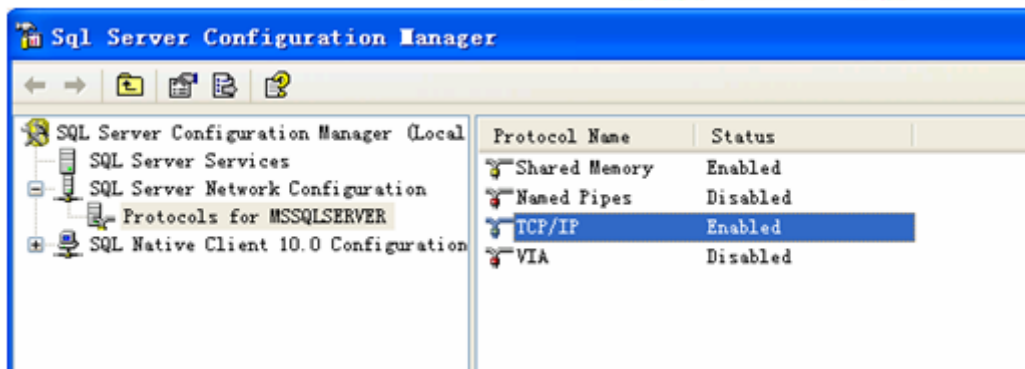


2.2 Remote Access Configuration

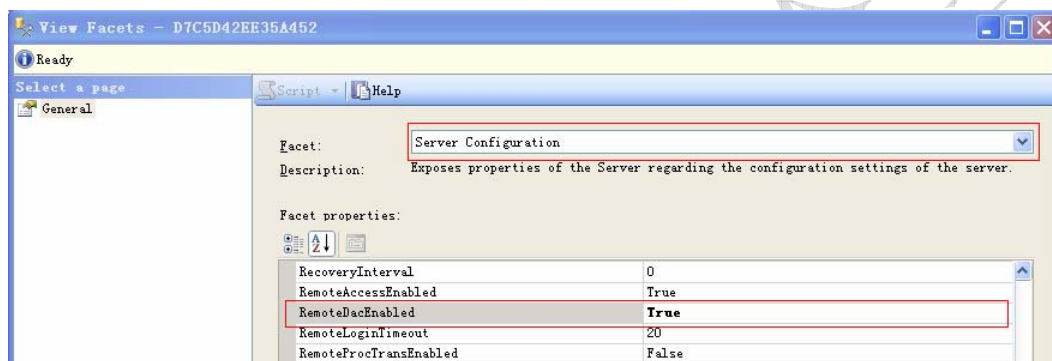
1. Click “Start -> Program -> Microsoft SQL Server 2008 -> SQL Server Management Studio” to open main interface of SSMS. Select the first item (main database engine) in “Object Explorer”, then right click and select “Properties”. In the left of pop-up box, select “Connections”, and then select “Allow remote connections to this server”.



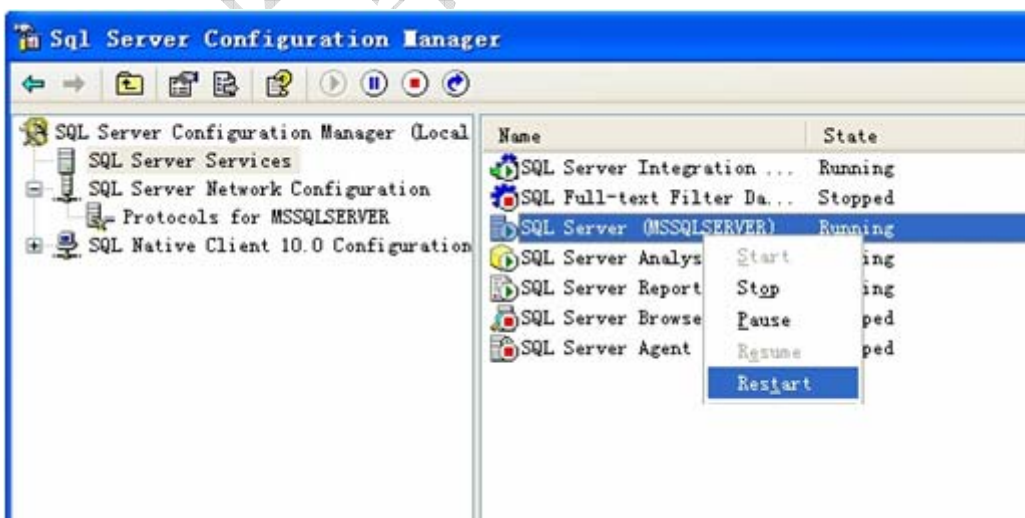
2. Click “Start -> Program -> Microsoft SQL Server 2008->Configuration Tools->SQL Server Configuration Manager”, then the “SQL Server Configuration Manager” dialog will be pop-up. In the left list, select “SQL Server Network Configuration ->Protocols MSSQLSERVER (According to the specific instance name to select)”. Select “TCP/IP” in the right list, and then right click it to select “Enabled”.



3. Open “SQL Server Management Studio”, select the first item (main database engine) in “Object Explorer”, and right click it to select “Facets”. The “View Facets” will be pop-up, select “Server Configuration” in the drop-down list, and set the property of “RemoteDacEnabled” to True.



4. Click “Start -> Program -> Microsoft SQL Server 2008 -> Configuration Tools -> SQL Server Configuration Manager -> SQL Server Services”, select “SQL Server (MSSQLSERVER)” (Note: According to the specific instance name to select), right click it to select “Restart”.



3 SQL Server 2008 Database Application

The SQL Server 2008 database can be accessed after it has been installed. You can access it through SQL Server 2008 integrated environment or programming.

3.1 Access by SQL Server Management Studio

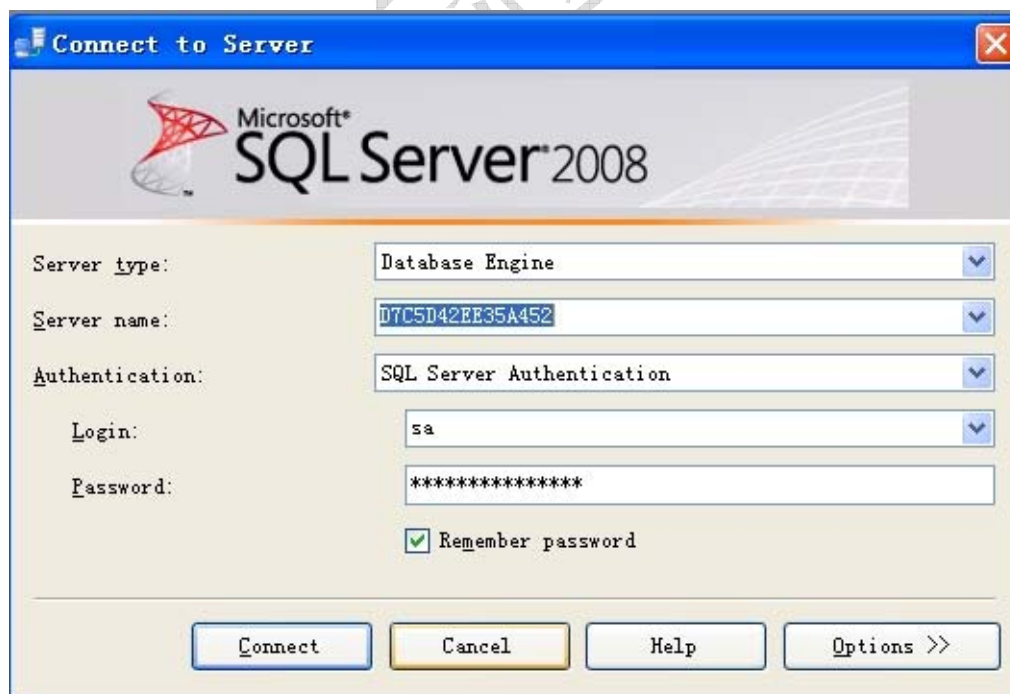
1. Login SQL Server 2008

Click Start, and then select “Program -> Microsoft SQL Server 2008 -> SQL Server Management Studio” to open SSMS main interface. The “Connect to Server” window will be pop-up. Input server IP or server hostname in “Server name”. Both “Windows authentication” and “SQL Server authentication” can be authentication. Input username and password, and then click “Connect” to login database.

There are two Safe modes in SQL Server 2008 system: Windows authentication mode and mixed mode.

(1) In Windows authentication mode, the user who accesses database server is authenticated by Windows operating system.

(2) In mixed mode, both Windows security and SQL Server security can be used to authenticate. The sa is a default username for SQL Server, it has all permissions for SQL Server system. It can't be deleted. The password of sa should be set, if you use mixed mode to install SQL Server system.

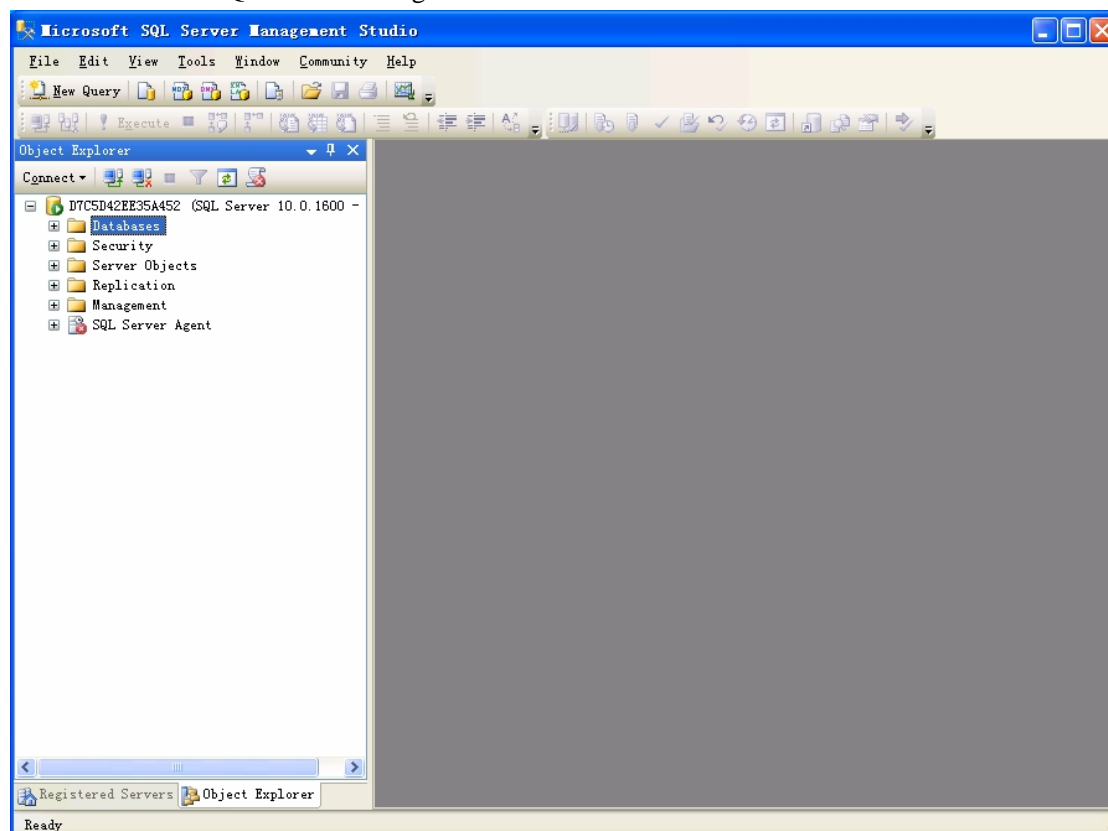


2. SQL Server Management Studio

“SQL Server Management Studio” is an integrated environment, which is provided by “Microsoft SQL Server 2008”. It combines a variety of graphical tools with multi-function script

editor, and can access, configure, control, manage and develop all the work of SQL Server. So it is greatly convenient for technical personnel and database administrator to access SQL Server system.

The interface of “SQL Server Management Studio” is as follows:



3.2 Access by Programming

It has already been introduced to use SSMS to access and operate database, how to implement it by programming? In the process of software development, both ADO and ODBC can be used to access and operate database. And here use ADO programming as an example to implement it.

The requirements are as follows:

Access SQL Server 2008, which run in 192.168.0.1. The database name is TestLibrary; Account is sa; and password is 123456.

Use ADO to connect database, and the connection string: Provider=SQLOLEDB.1; Data Source=192.168.0.1; Database=TestLibrary; User ID=sa; Password=123456