



- *Microsoft® SQL® Express 2008 R2*
- *Installation Guide*
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ISS45 Microsoft SQL Installation Guide

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Overview

This document will guide you through the installation of:

- SQL Server 2008 Express R2 with Tools
- SQLDMO pack install.
- Enabling Named Pipes
- Disabling Data Execution Prevention (DEP)

The recommended hardware requirements for SQL 2008 Express R2 (32-bit) with Retalix are:

- CPU = P4 - 2.0 GHz or higher
- RAM = 4 GB or higher
- HD = 80 GB or higher

Software requirements for MFS1 are:

- Windows 7 Professional
- Windows Server 2008

Note: Windows Server 2000 is no longer supported by SQL Server 2008.

Prerequisites (* = Installed by installation wizard if they do not exist)

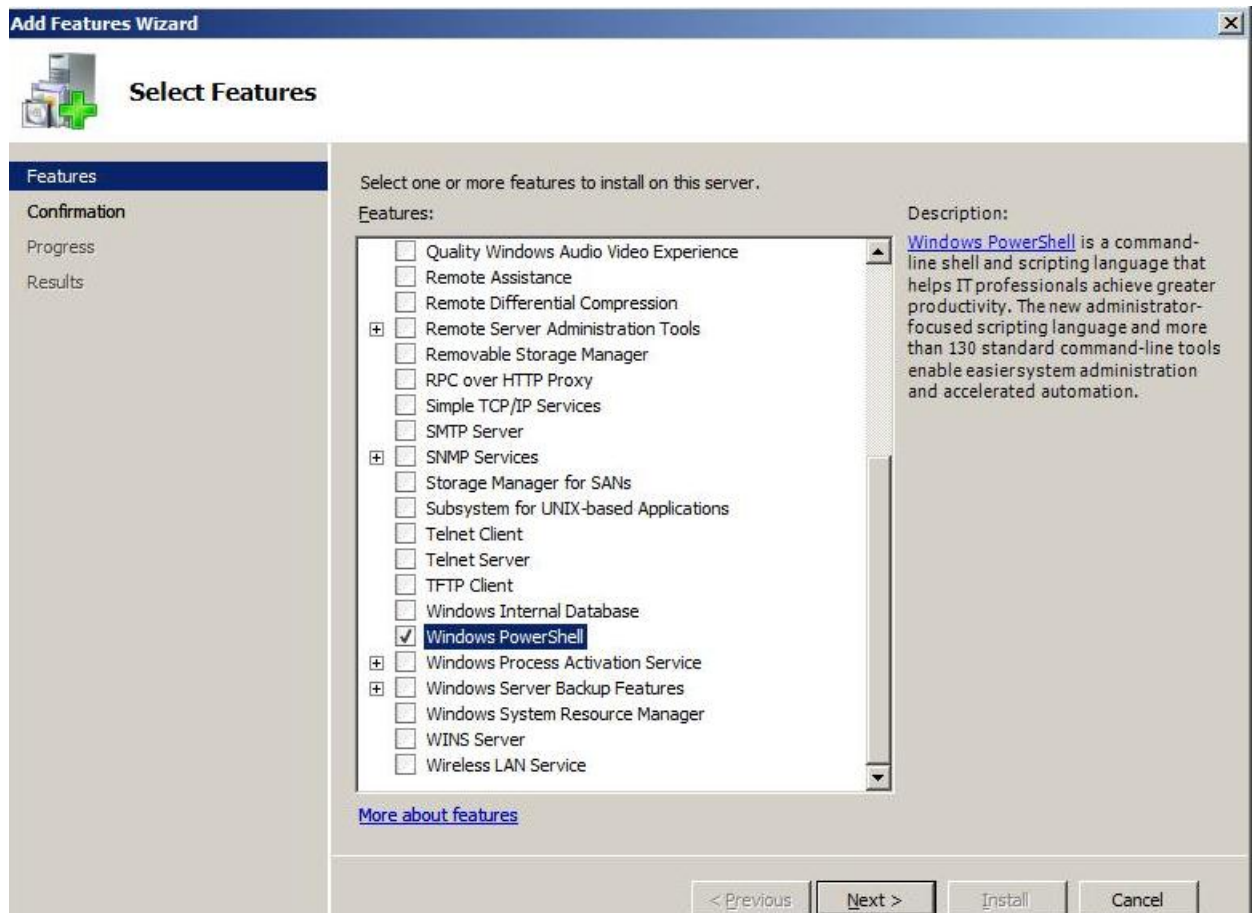
- .Net Framework 3.5sp1
- SQL Server Native Client*
- SQL Server Setup Support Files*
- Internet Explorer 7
- SQLDMO Pack (backward compatibility)

Note: You must be logged into Windows as the Administrator User when installing any Retalix related applications on MFS1, MFS2, an LFS Workstation or POS Terminal.

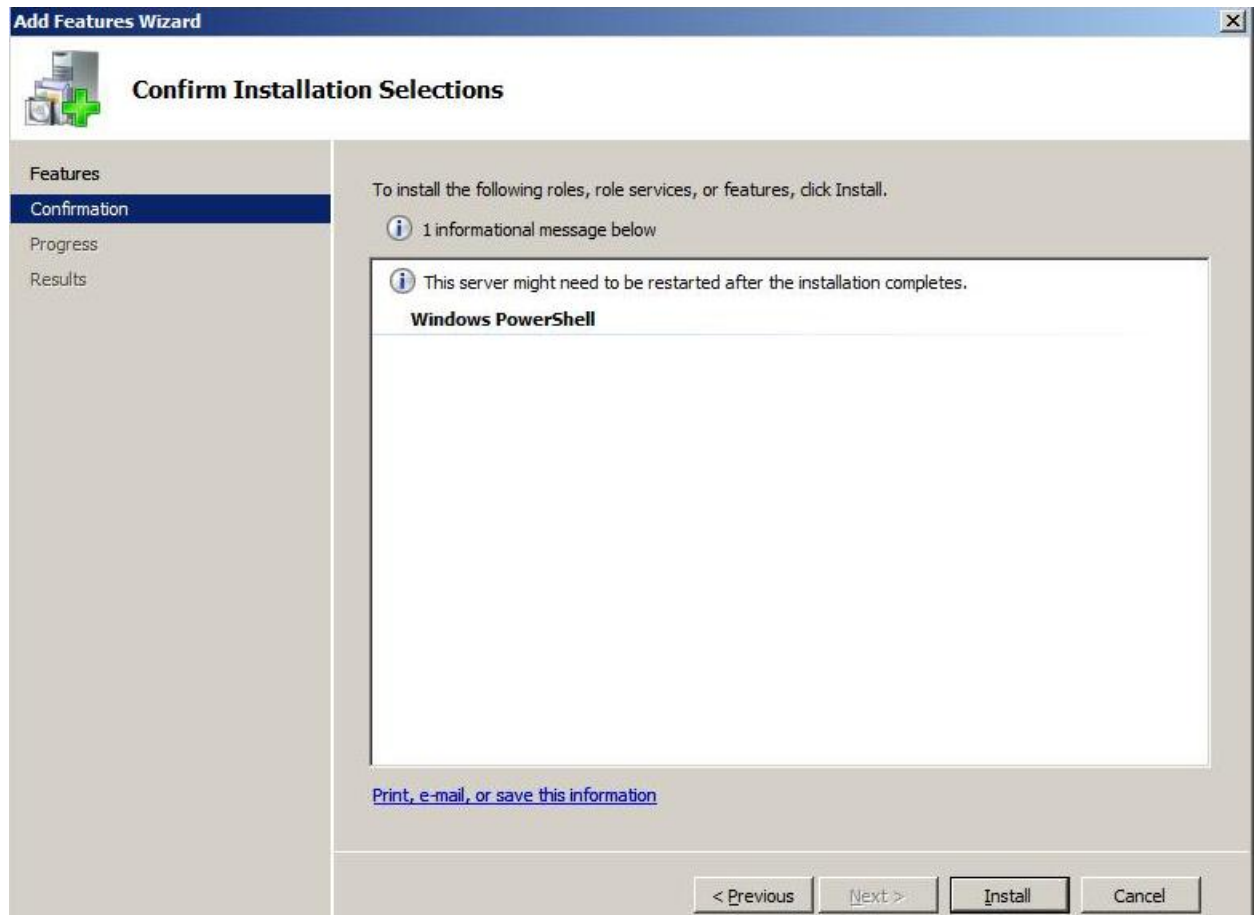
Microsoft® SQL Server® 2008 Express Installation

1. The POWERSHELL feature needs to be installed if Server 2008:
(Not necessary on Windows 7 system)

Go to Start\Server Manager\Add Features and select Windows Powershell.



When complete:

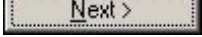


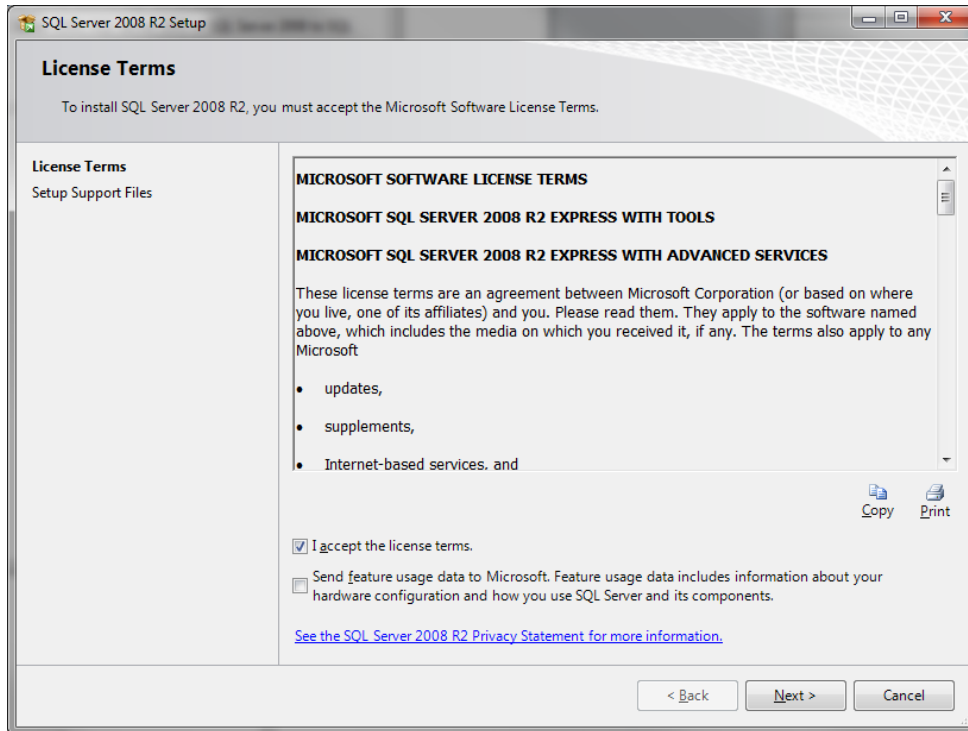
2. From the CD or from the folder containing the SQL source files, right click `en_sql_server_2008_r2_express_edition_with_tools_with_service_pack_1_x86_713477.exe` and run as administrator. SQL Server Installation Center is displayed.

3. If Microsoft .net 3.5 SP1 and Microsoft Windows Installer 4.5 are not installed, you will get the following message:

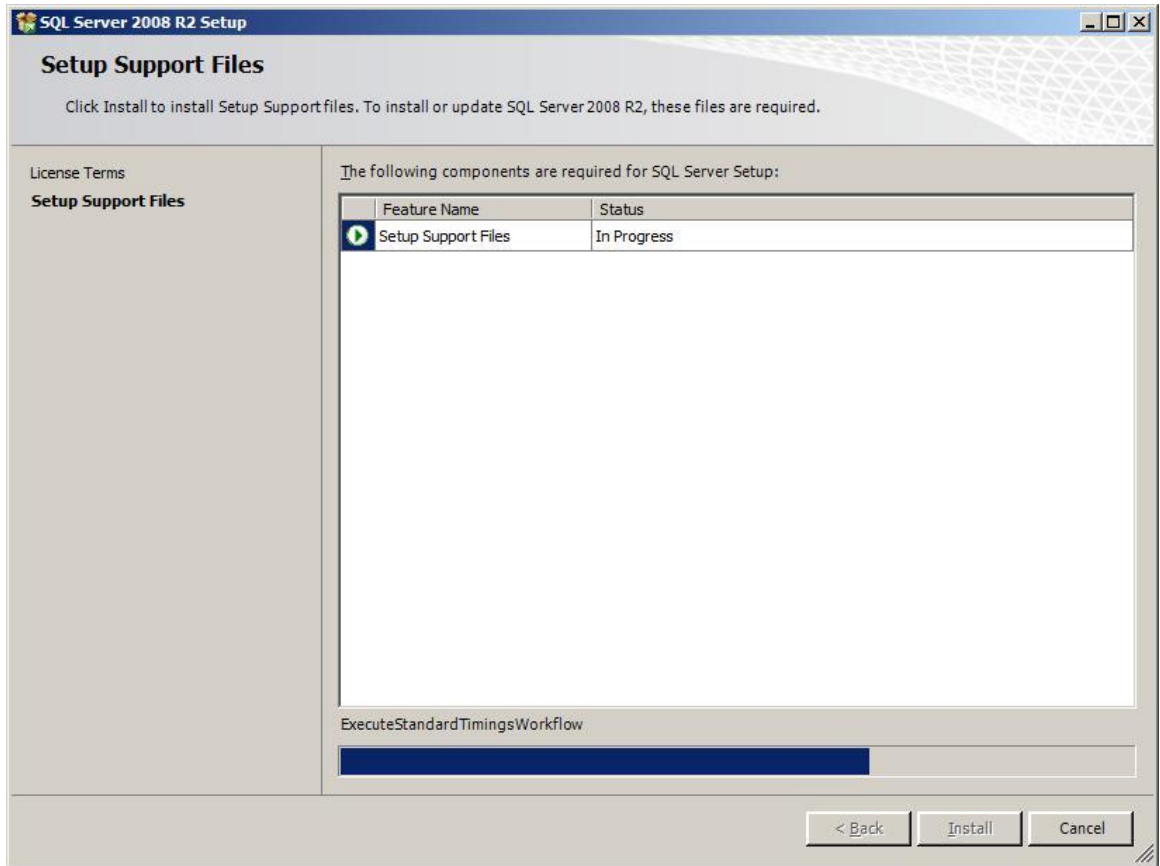


4. Click on each to install and reboot. Then restart the installation.
5. Click New Installation. The License Terms screen is displayed.
6. Approve the license agreement by checking I accept the license terms.

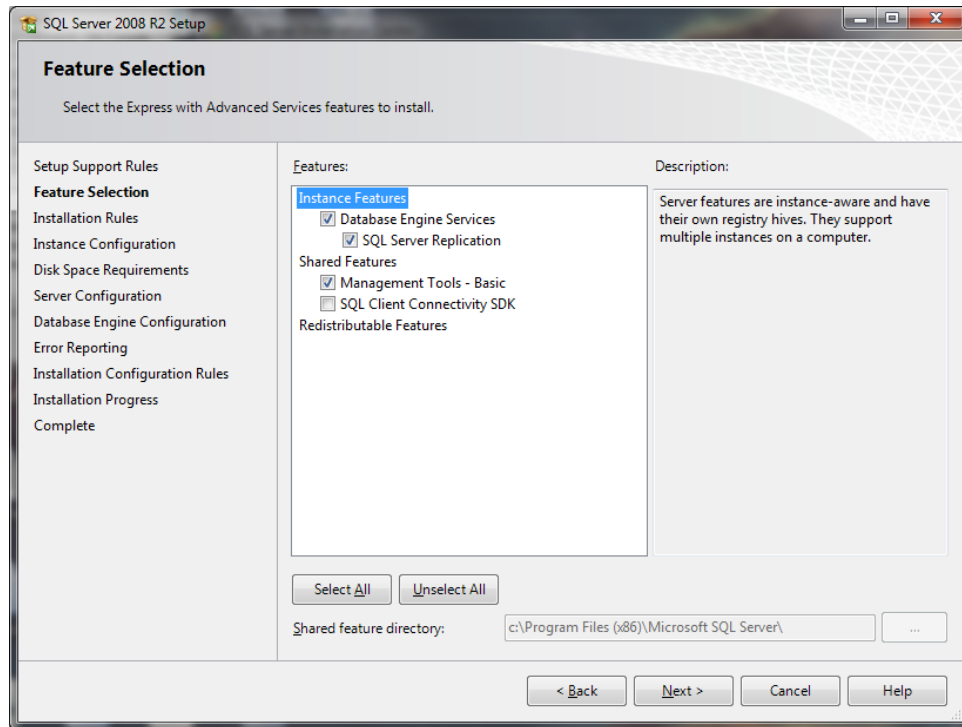
7. Click . The **SQL Server 2008 RS Setup** screen displays.



Installation will automatically begin.

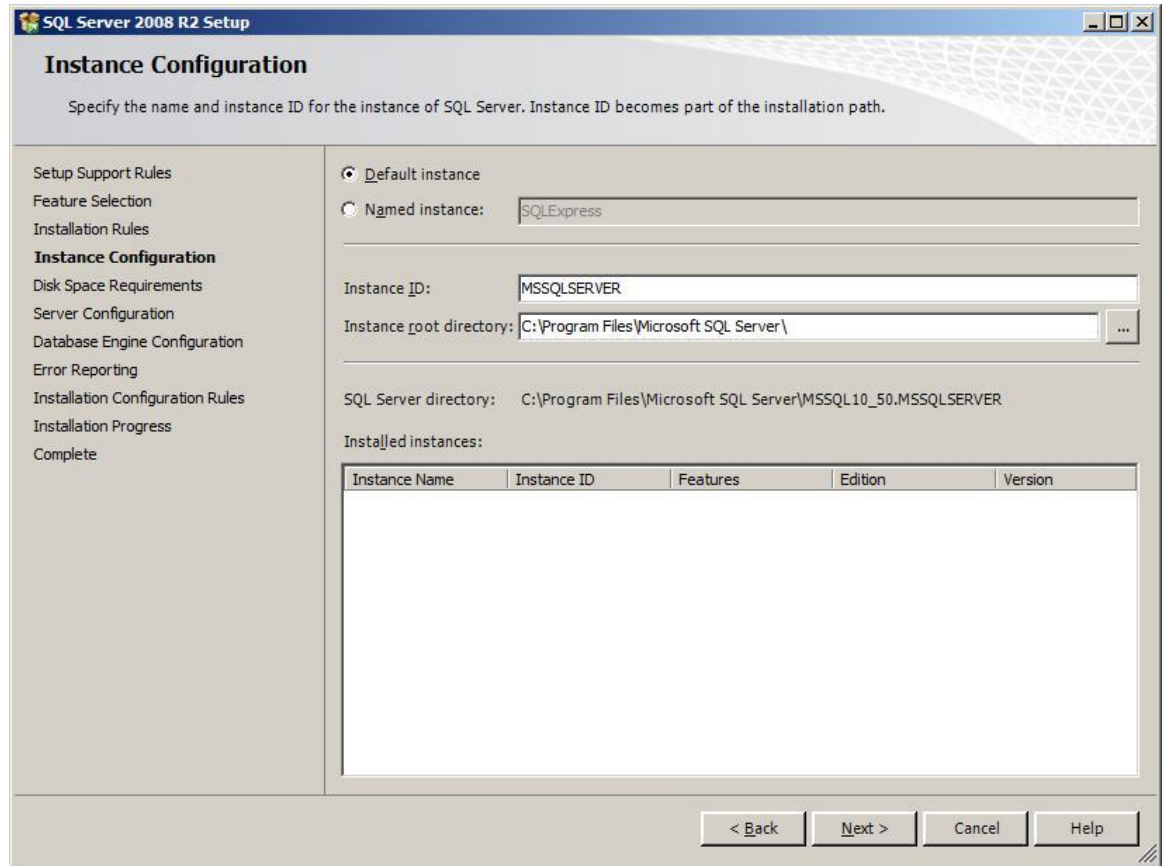


8. Select Database Engine Services, SQL Server Replication and Management Tools – Basic. Uncheck SQL Client Connectivity SDK



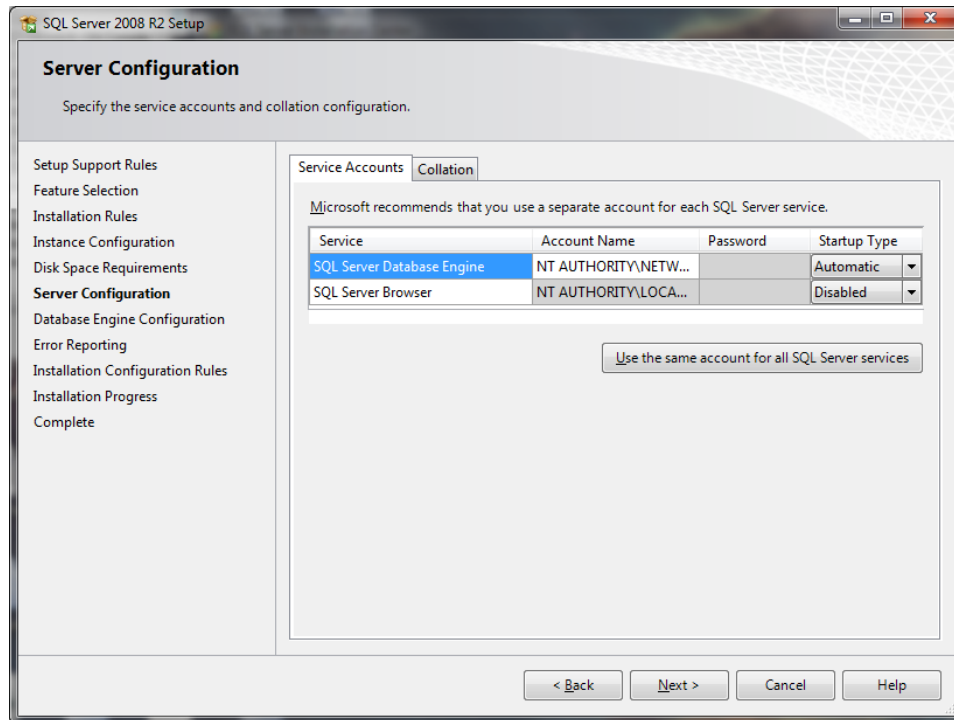
9. Click .

10. Choose **Default Instance**.

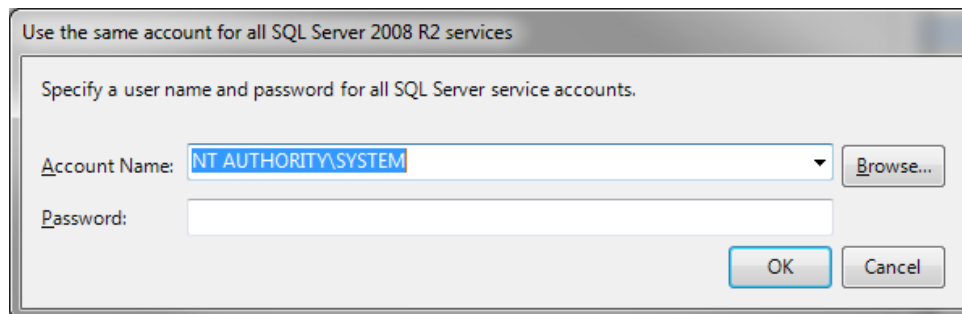


11. Click .

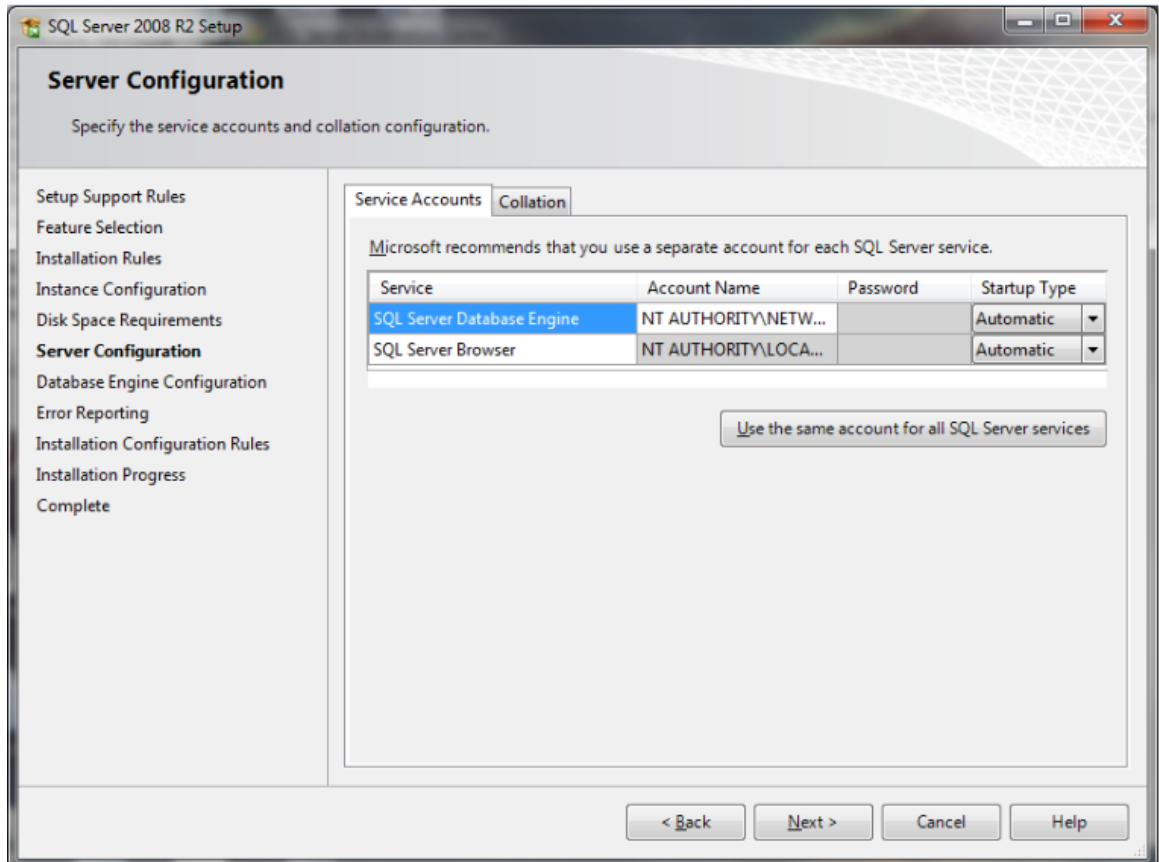
12. Click Use the same account for all SQL Server services.



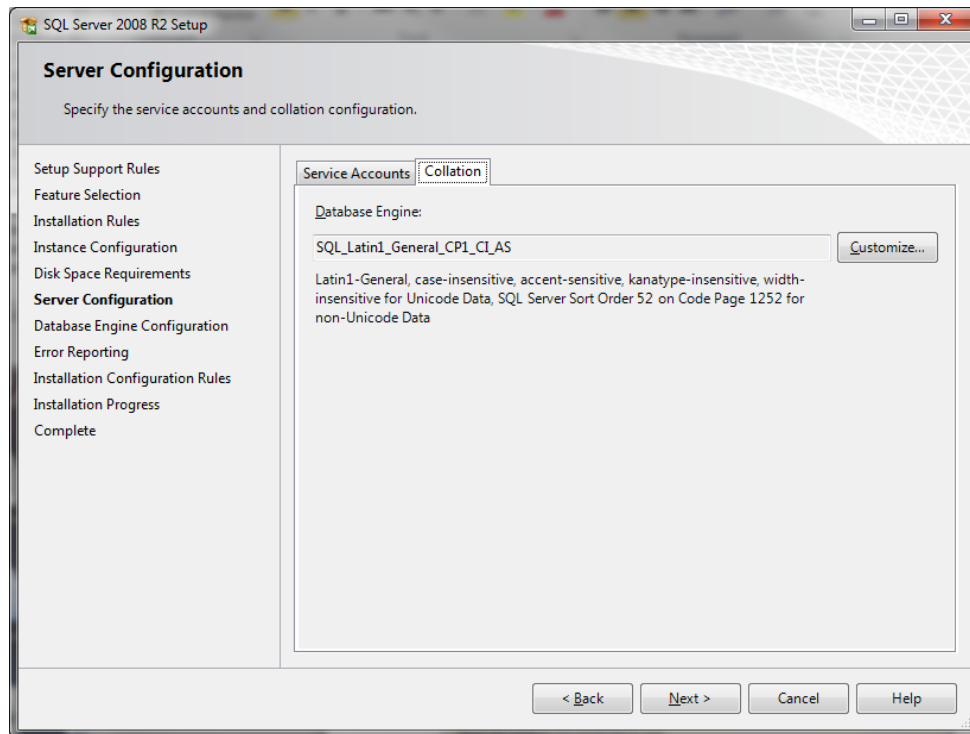
13. Click the Account Name field drop-down button and select NT AUTHORITY\SYSTEM. Leave the password blank. Press OK.



14. For the SQL Server Browser Service, choose Automatic from the Startup Type field drop-down button. **DO NOT SELECT NEXT!!!!**

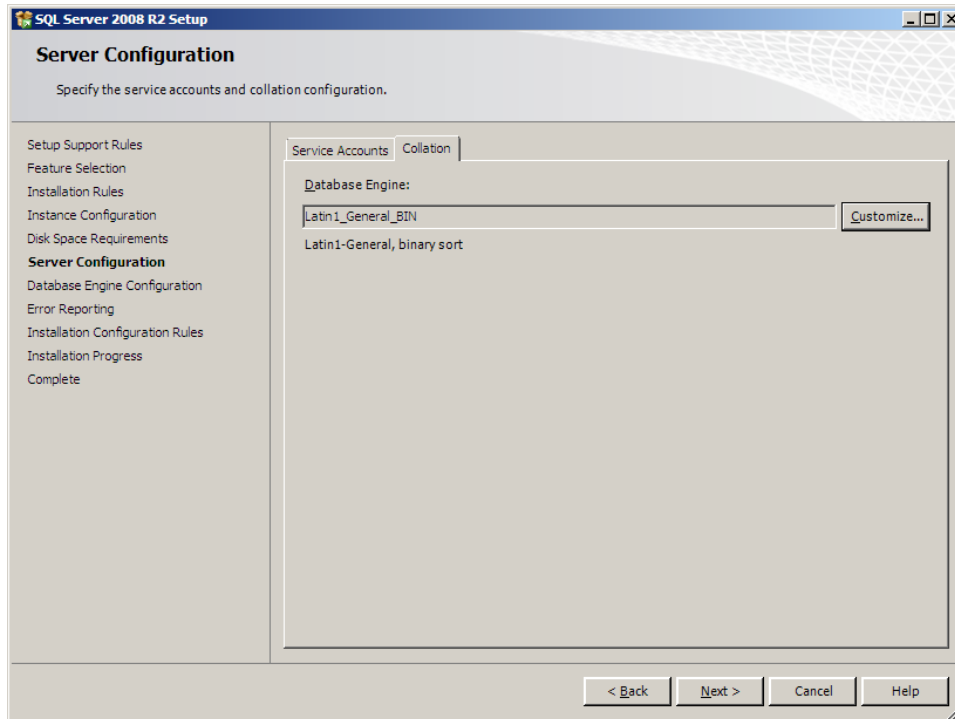


15. Click the Collation tab.
16. Click Customize.



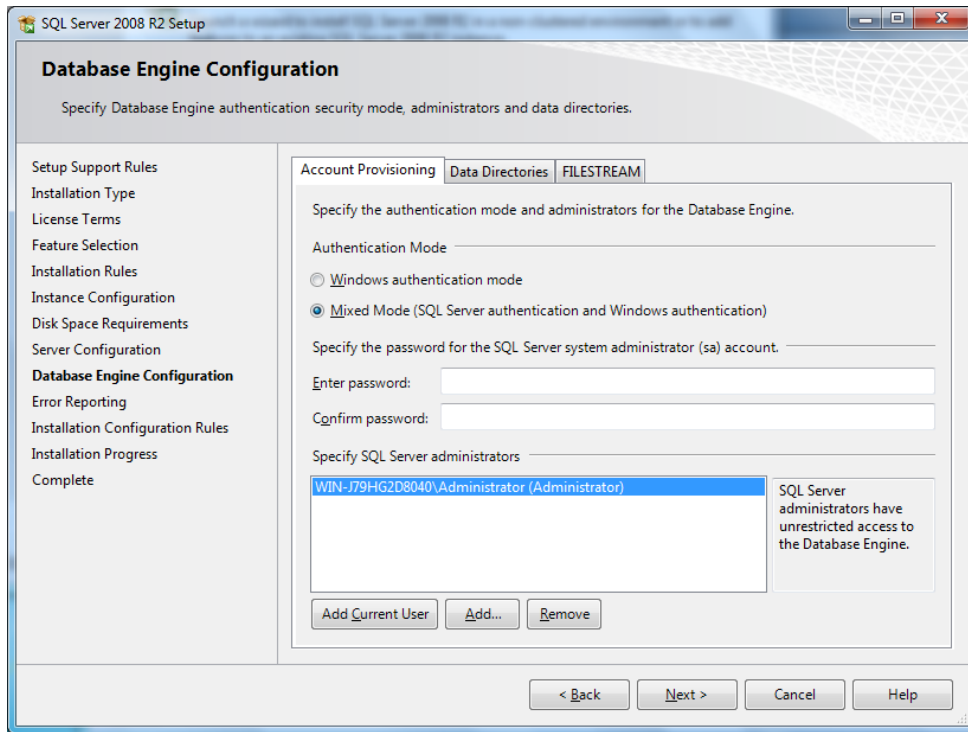
17. Select Windows collation designator and sort order.
18. Choose Latin1_General from the Collation designator field using the drop-down selection button.
19. Check Binary.

20. Click **OK**. (The selections should display as shown below).

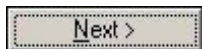



21. Click .

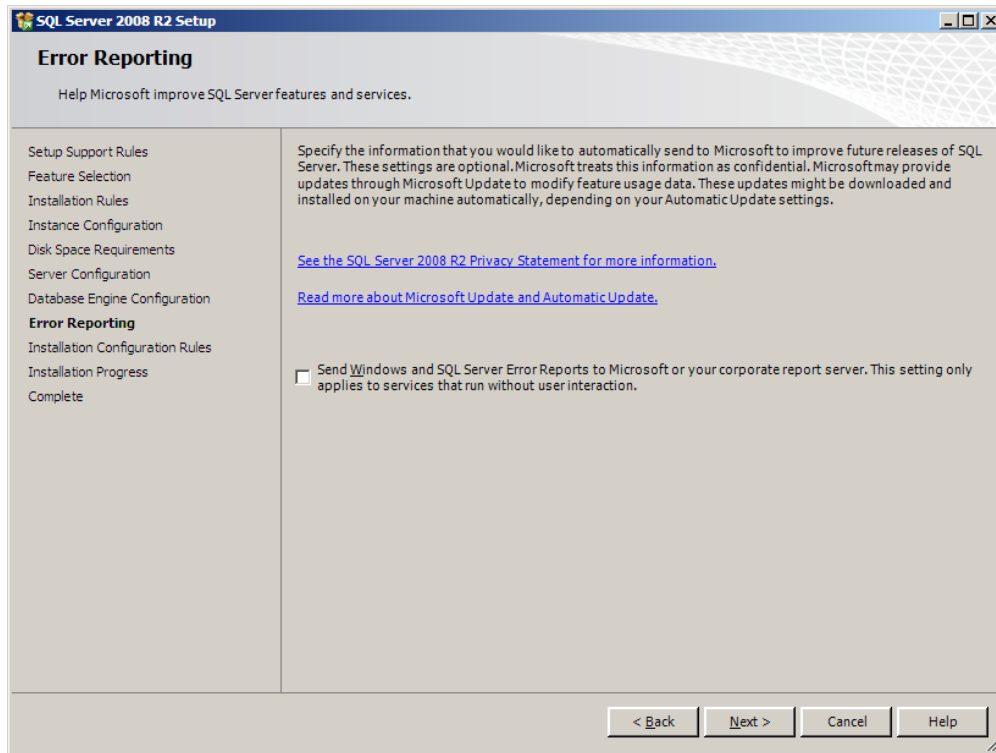
22. Select **Mixed Mode** radio button, enter (and confirm) a password.



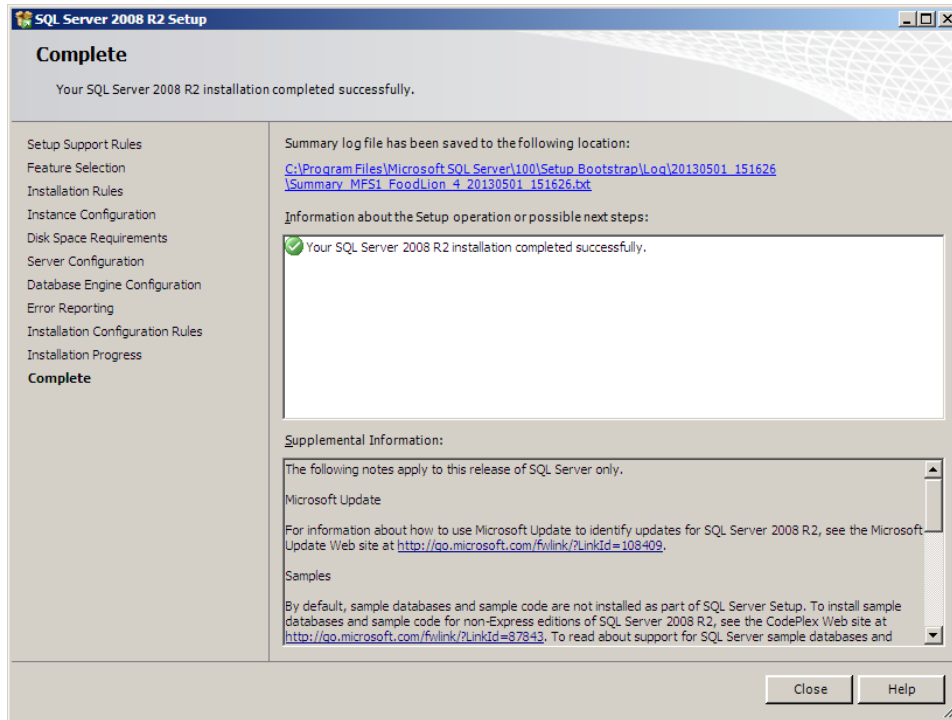
23. Click



24. Click . The installation will begin. (Depending on the system, this may take a few minutes.) When finished, the Complete screen displays:

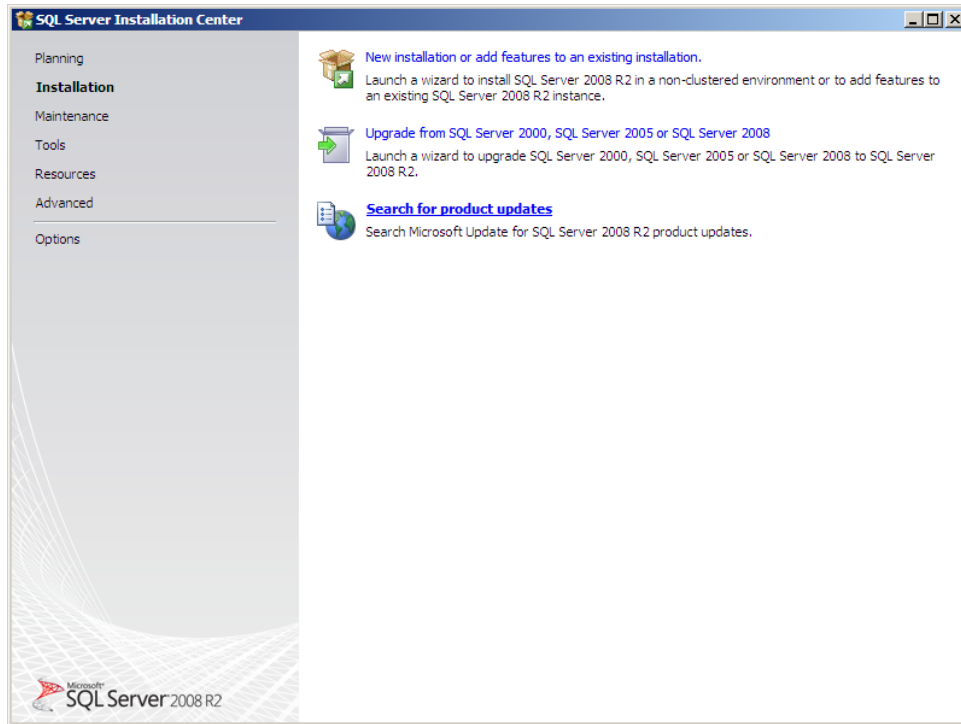


25. Click the link to view the installation log to verify the installation.

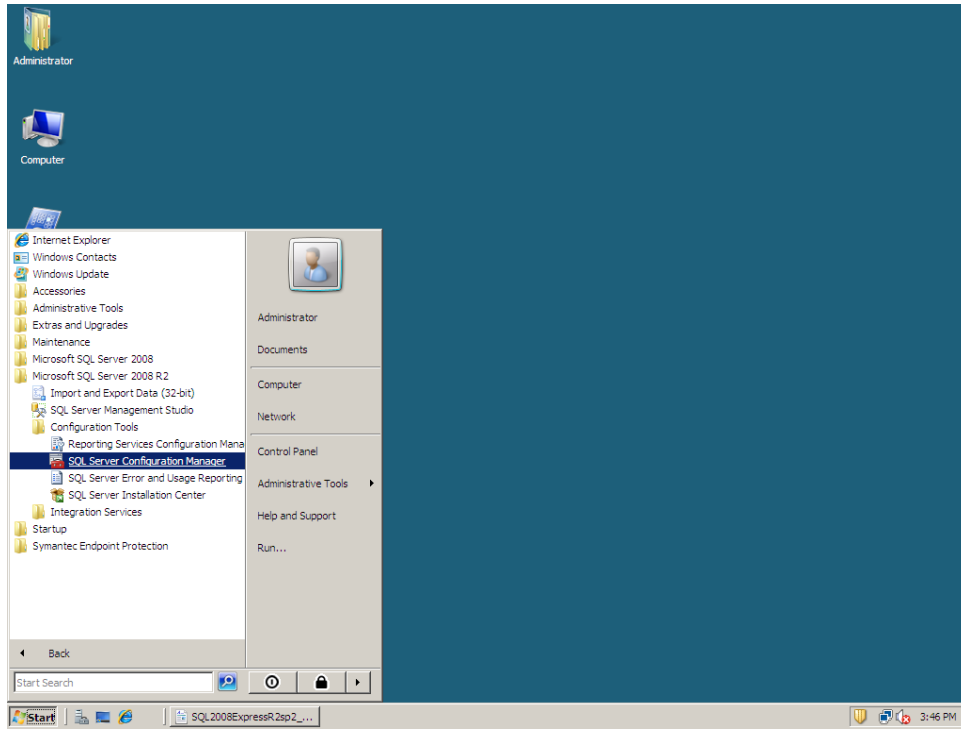


26. Click Close.

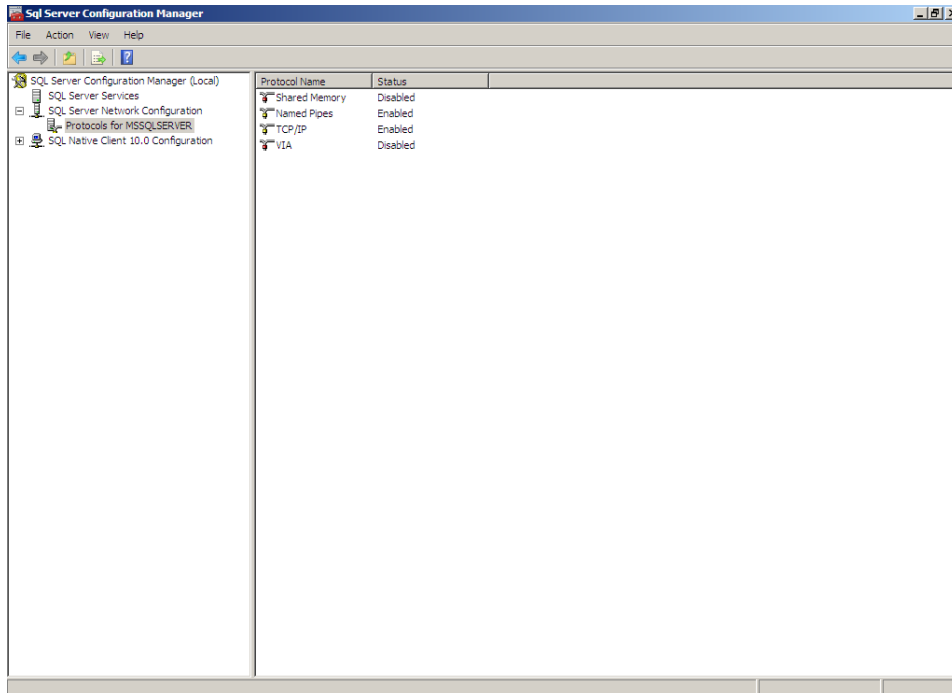
27. If able Search for product updates. (If not, close).



28. Open the SQL Server Configuration Manager.



29. Click "+" to expand SQL Server Network Configuration.

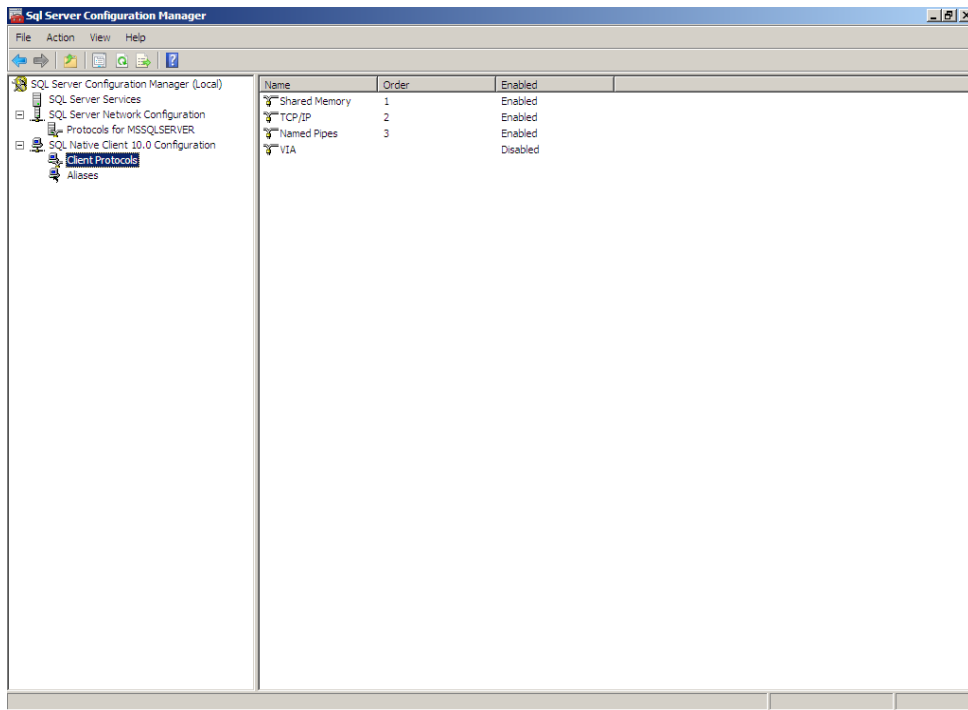


30. Select Protocols for MSSQLSERVER.

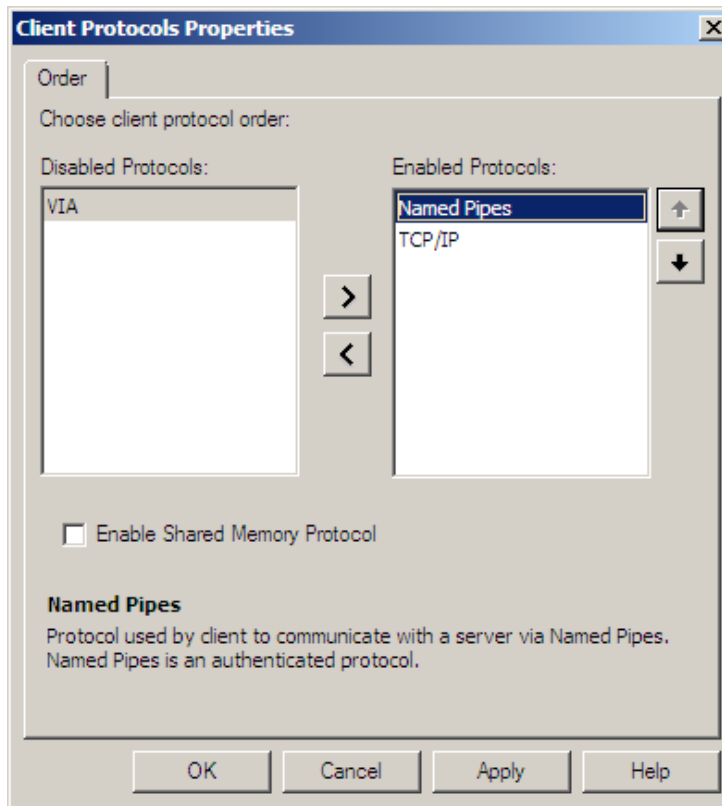
31. Named Pipes and TCP/IP should be enabled by right-clicking each one and choosing "Enable".

32. Right-click Shared Memory and choose "Disable".

33. Click the "+" to expand SQL Native Client 10.0 Configuration.
34. Select Client Protocols.

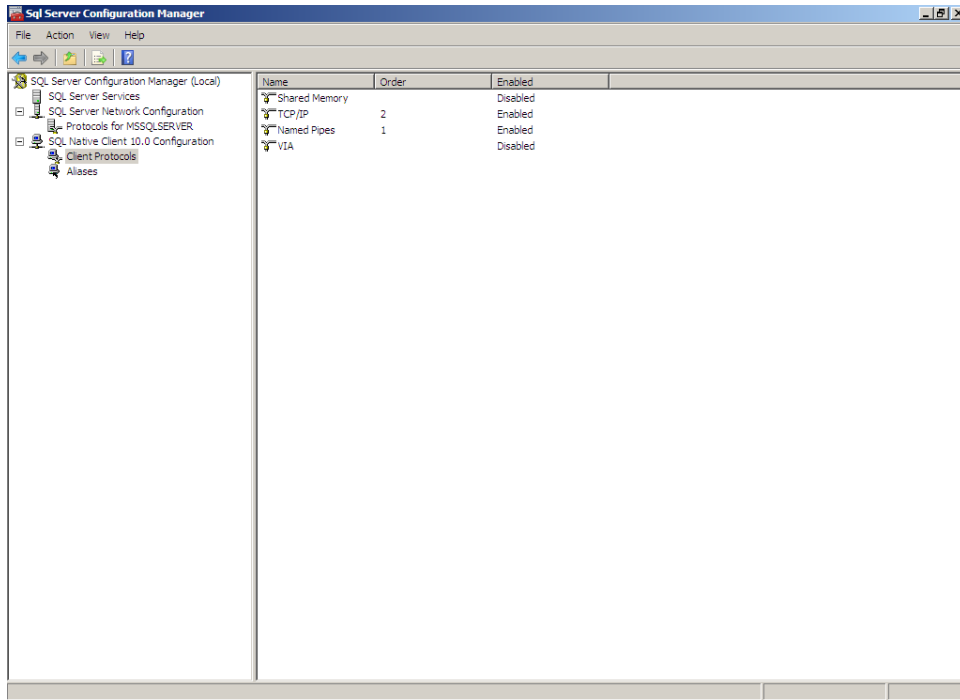


35. Right-click Shared Memory and select "Order".
36. Under Enabled Protocols select "Named Pipes" and click the up-arrow to move it to the top of the list.



37. Click OK.

38. Again, disable Shared Memory by right-clicking and selecting “Disable”.

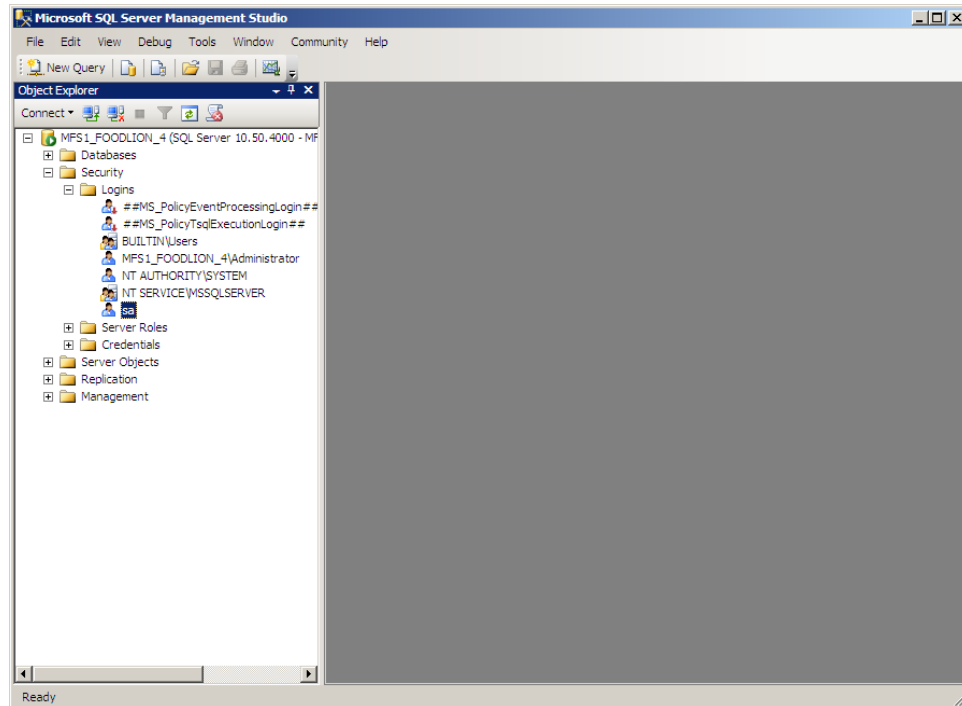


39. Close SQL Server Configuration Manager.

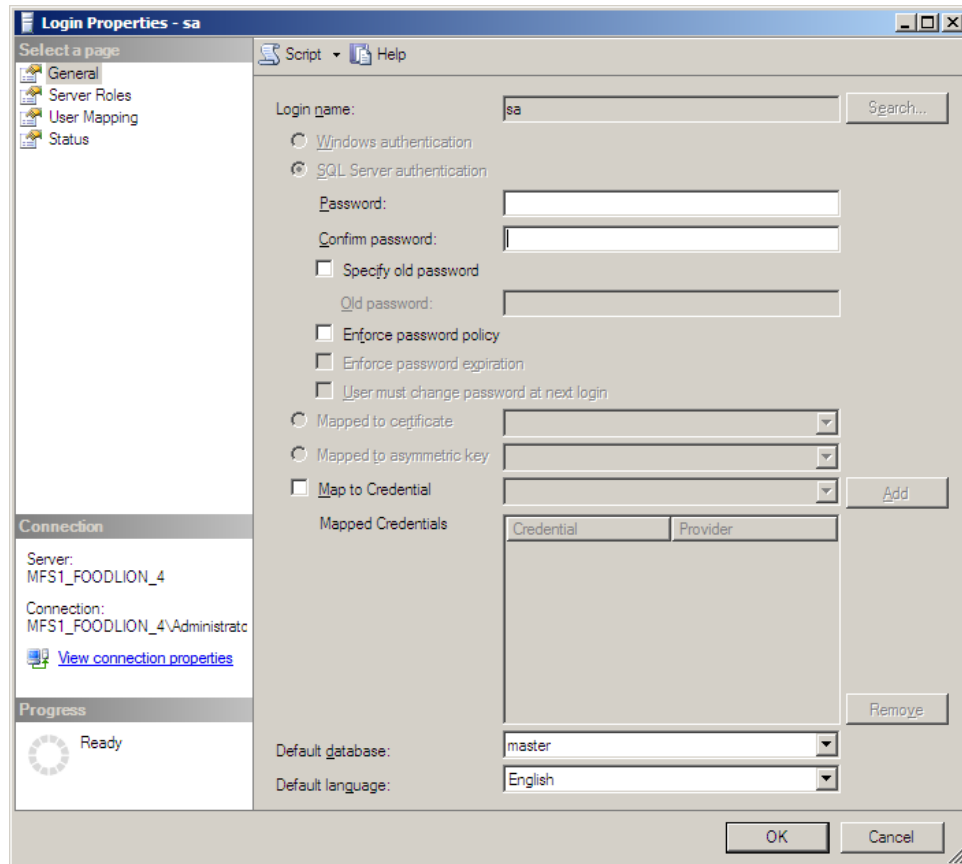
40. Launch the SQL Server Management Studio.
41. It should default to your server. If not, select it then press “Connect”.



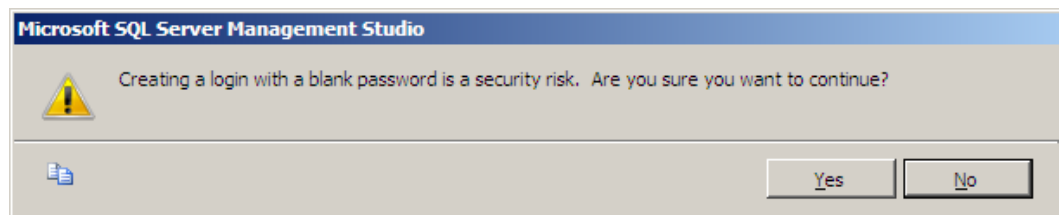
42. “+” Expand the server.
43. “+” Expand Security.
44. “+” Expand Logins.
45. Right-click “sa” and choose “Properties”.



46. Delete the “Password” and “Confirm Password” fields.
47. Uncheck “Enforce password policy”.



48. Click OK. A confirmation will display.
49. Click Yes.



50. Disconnect from the server.
51. Close SQL Management Studio. At this point, a few settings need to be adjusted to ensure the server can communicate with the network

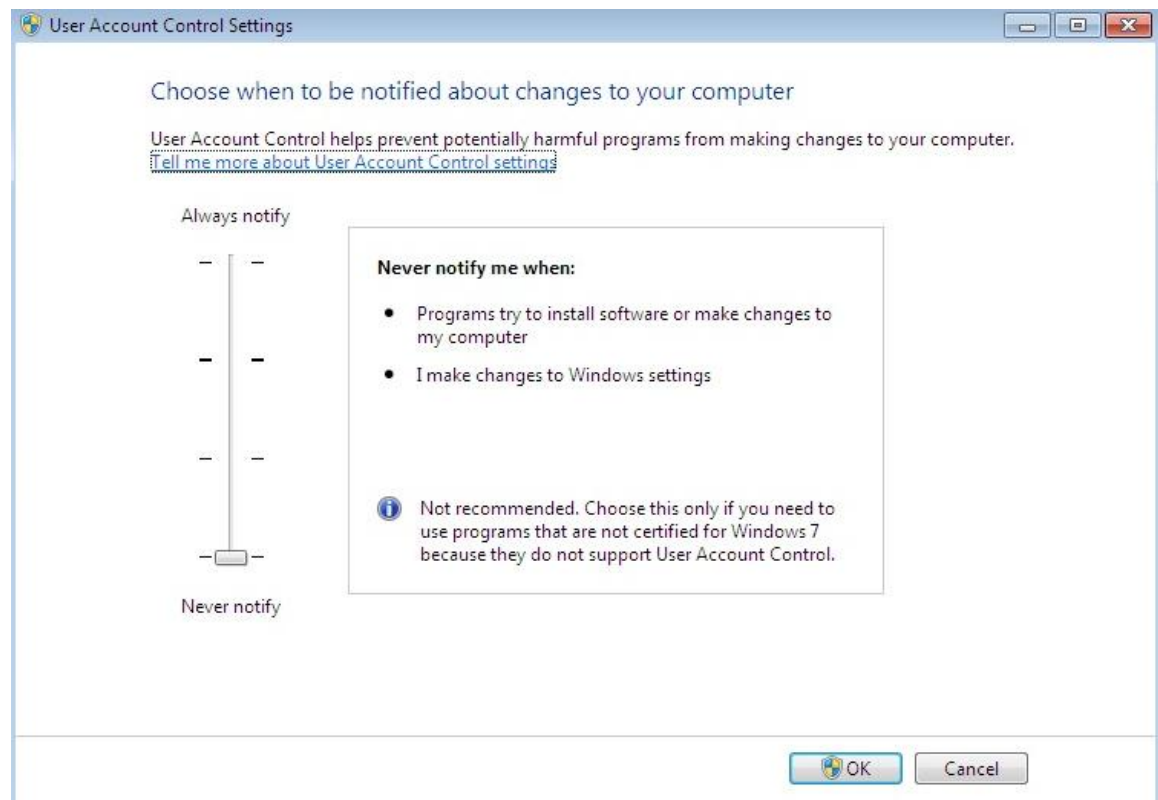
52. User Account Control (UAC) should be turned off (under Control Panel -> User Accounts).

On Windows 2008:

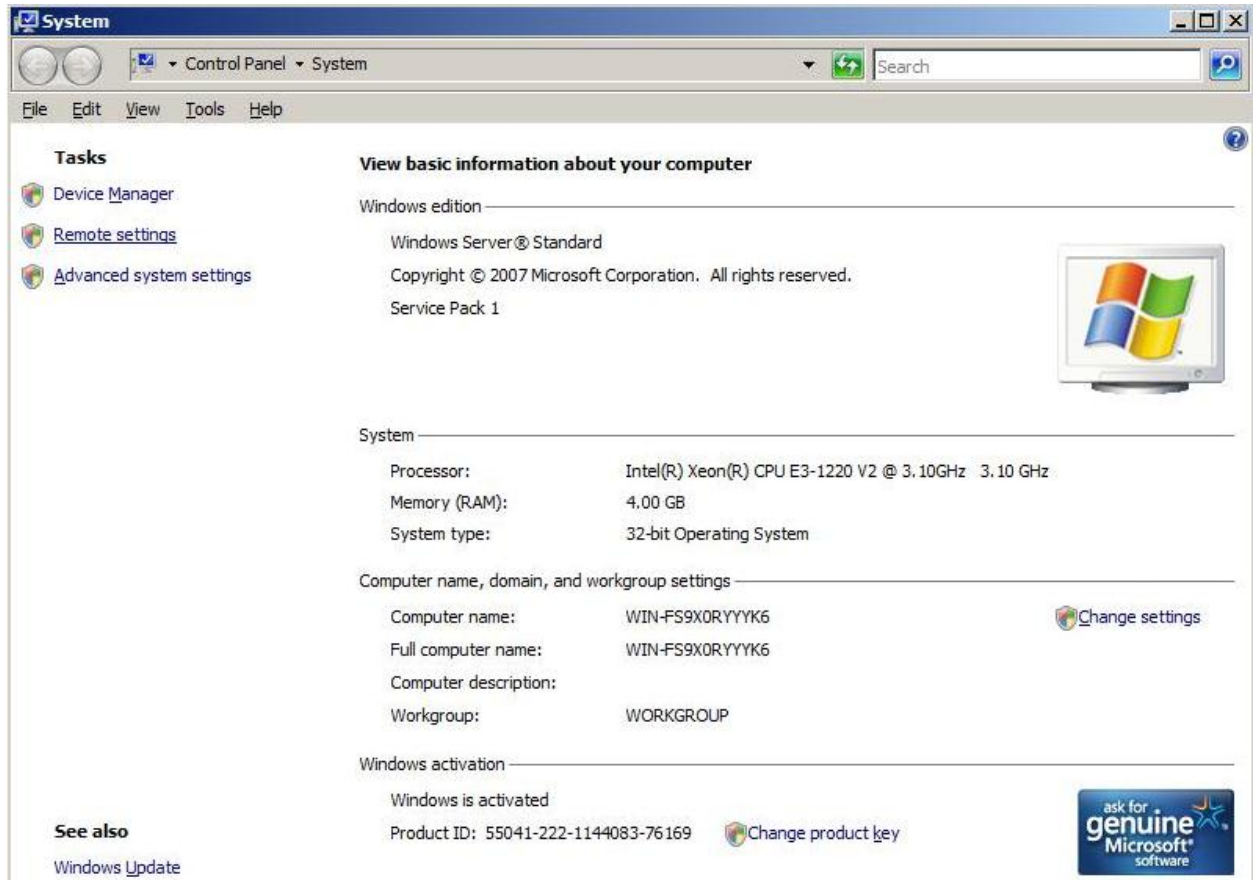


User Account Control (UAC) should be turned Never (under Control Panel -> User Accounts).

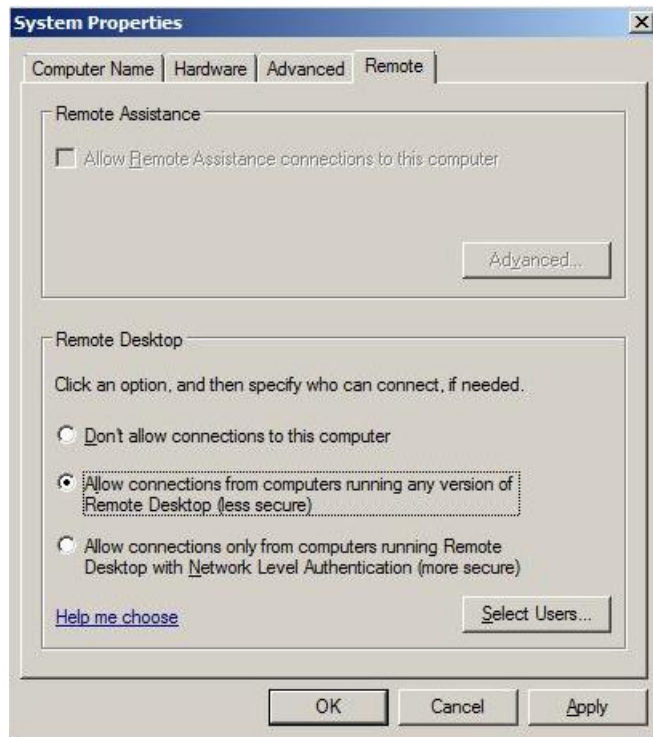
On Windows 7:



53. Remote Connection settings should be set to “allow all connections” (under Control Panel -> System -> Remote Settings).



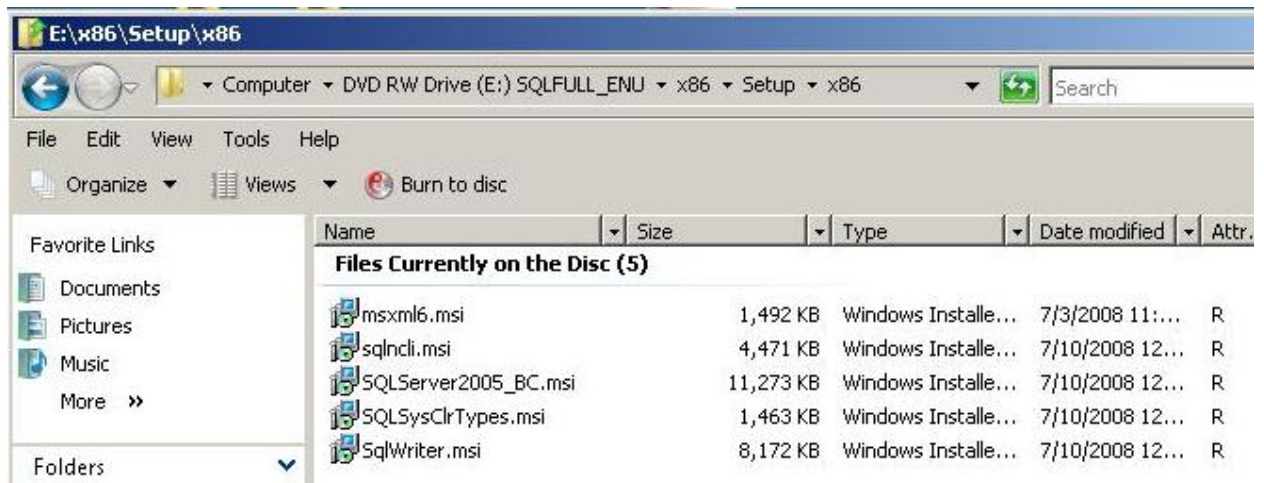
54. Select Allow connection from computers running any version of Remote Desktop (less secure).



55. Disable Windows Firewall.
56. Reboot the server to apply the server configuration changes.
57. Backward compatibility software must be installed. (Note: Ensure the correct software is installed, i.e. 32 or 64-bit). See pages 28-34
58. Disable Data Execution Prevention. See pages 35-40
59. The system is now ready for the ISS45 installation.

Backwards Compatibility (SQLDMO) SQLServer2005_BC.msi

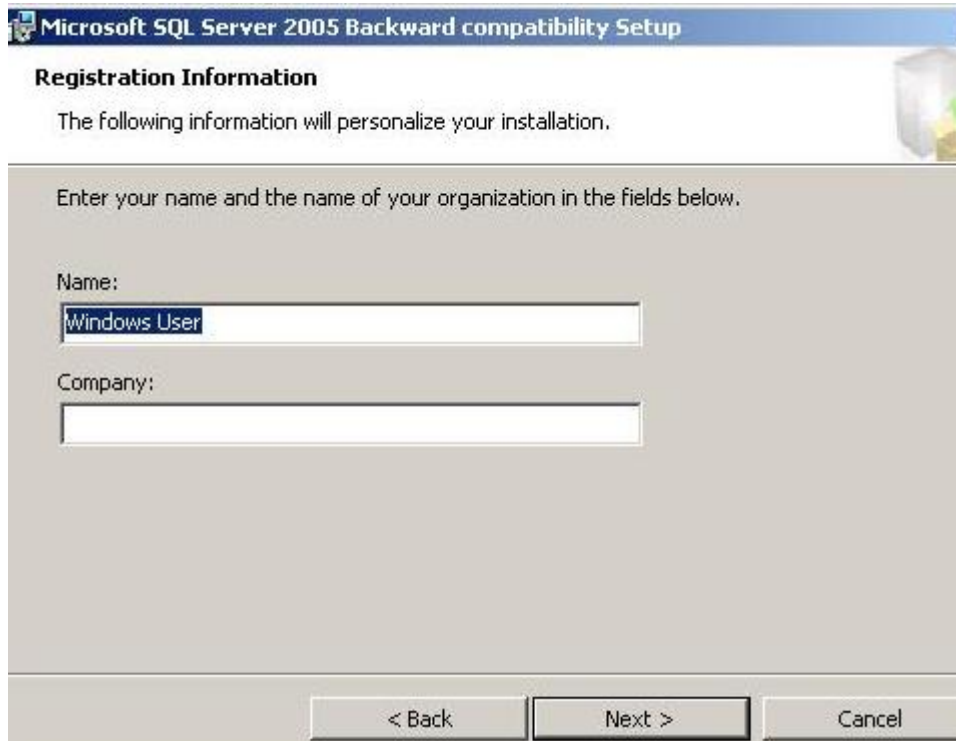
1. Run SQLServer2005_BC.msi



2. License Agreement – Select radio button “I accept the terms in the license agreement” and click Next.



3. Registration Information – Enter your information and then click Next.

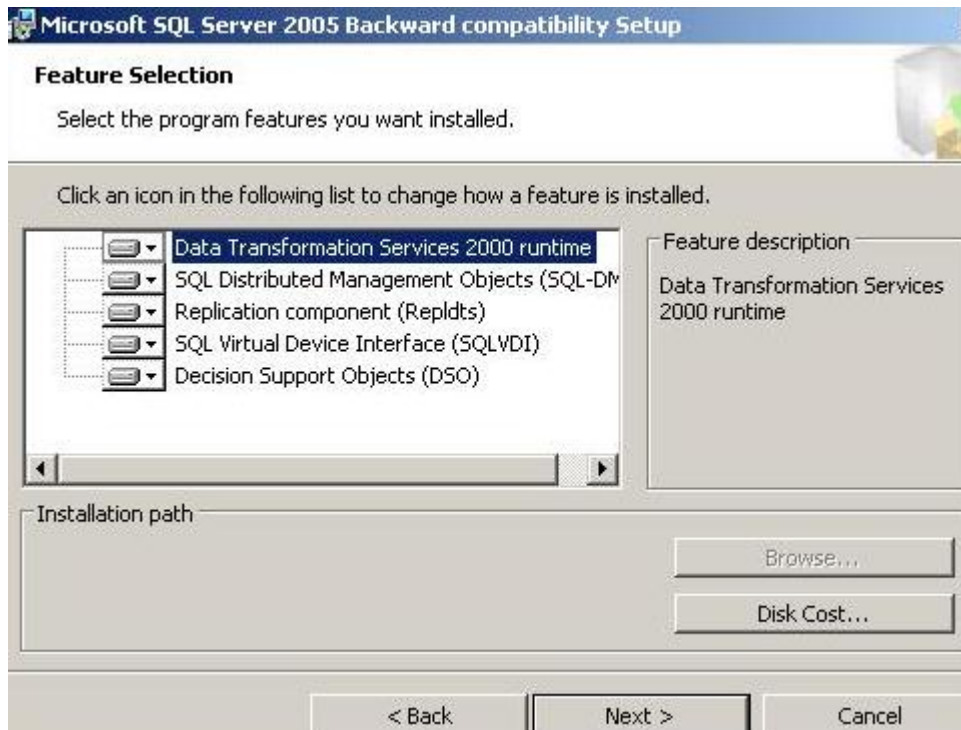


The screenshot shows a Windows dialog box titled "Microsoft SQL Server 2005 Backward compatibility Setup". The dialog has a blue header bar with the title and a small icon on the left. Below the header, the text "Registration Information" is displayed in bold. Underneath, a line of text reads "The following information will personalize your installation." To the right of this text is a small, semi-transparent 3D cube icon. The main area of the dialog is light gray and contains the instruction "Enter your name and the name of your organization in the fields below." There are two text input fields: the first is labeled "Name:" and contains the text "Windows User"; the second is labeled "Company:" and is currently empty. At the bottom of the dialog, there are three buttons: "< Back", "Next >", and "Cancel". The "Next >" button is highlighted with a dark border.

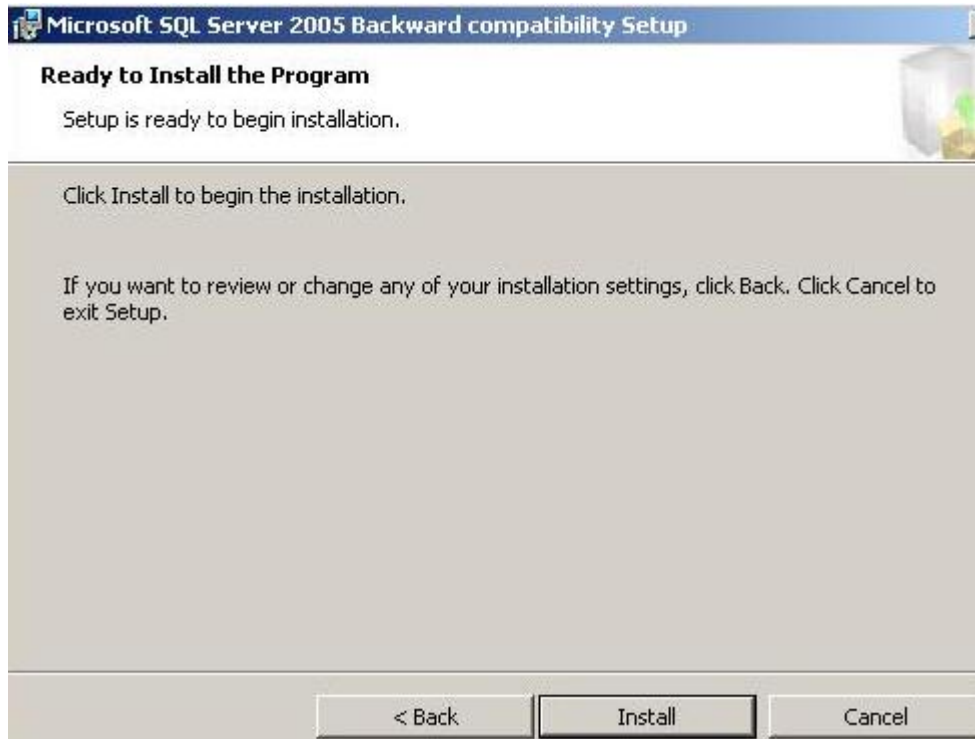
4. Microsoft SQL Server 2005 Backward compatibility Setup – is displayed. Click Next.



5. Feature Selection – Click Next.



6. Ready to install the Program – Click Install.



7. Completing the Microsoft SQL Server 2005 Backward compatibility Setup – Click Finish.



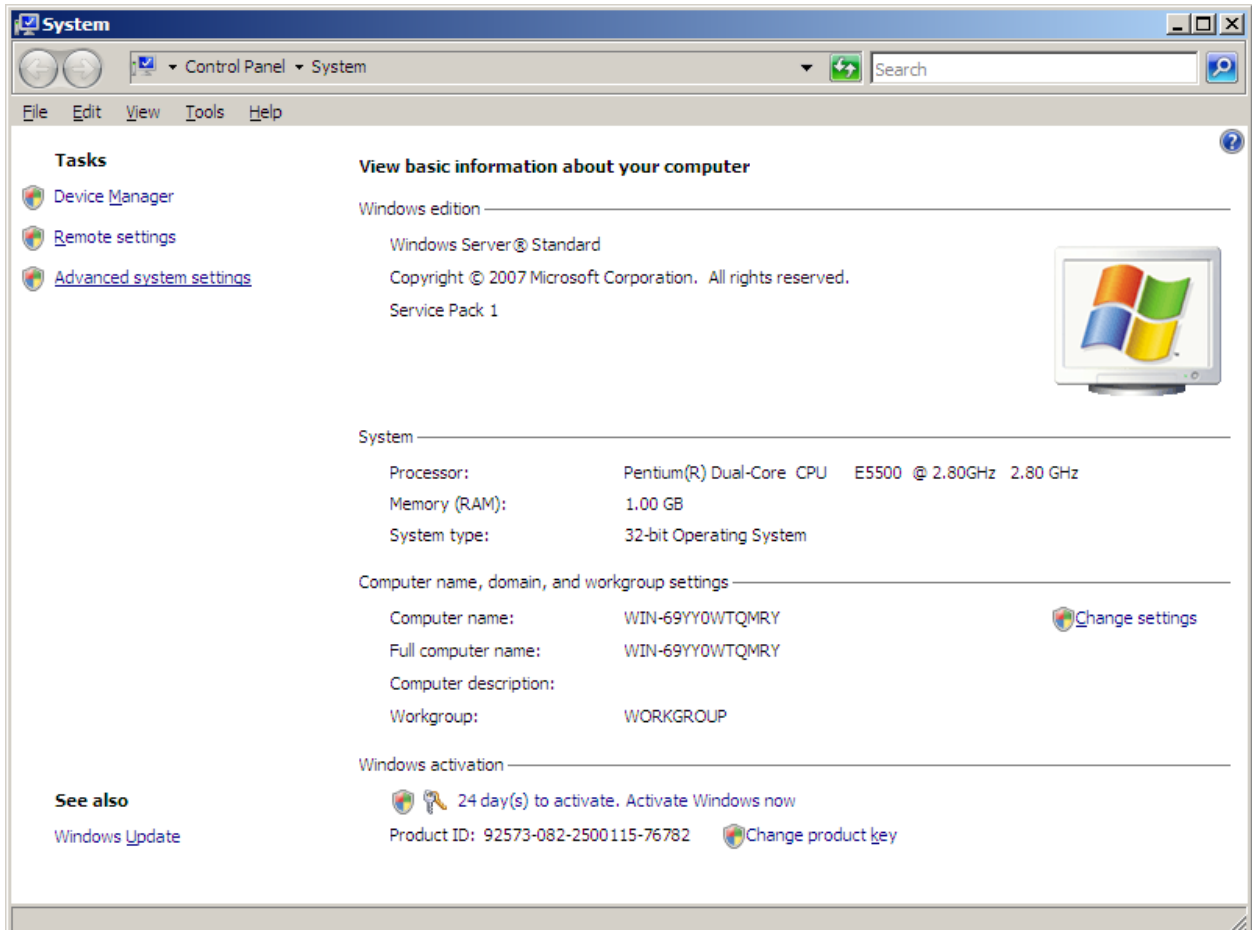
Disable Data Execution Prevention (DEP)

It is recommended that DEP be completely disabled on all Retalix PC's.

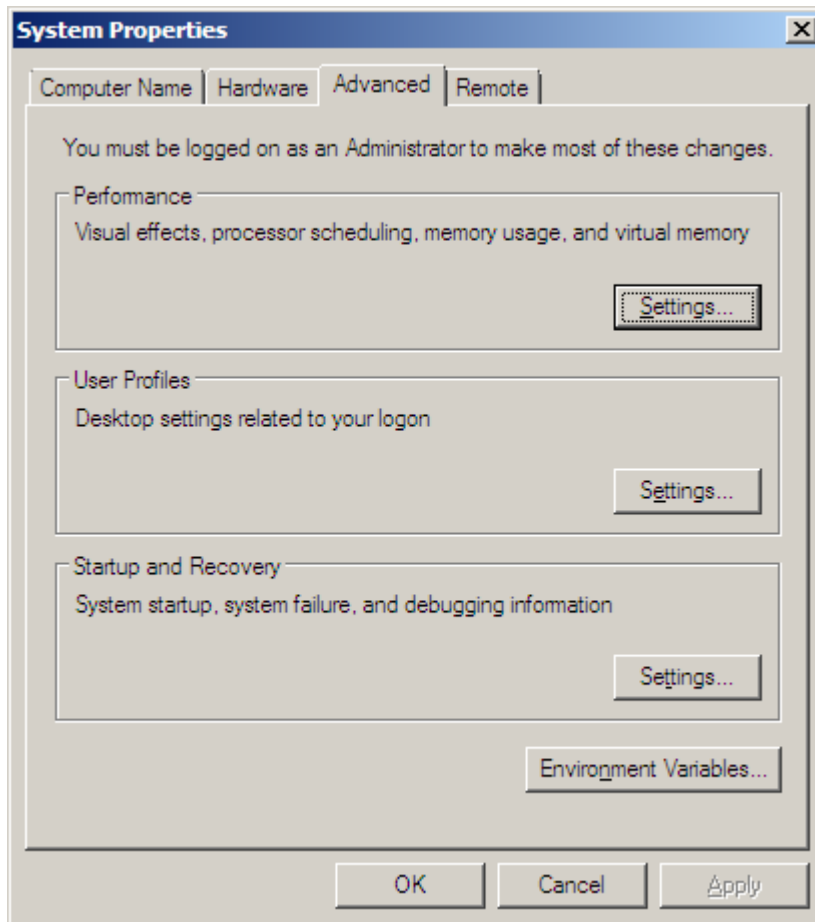
DEP can be turned on for all applications, turned on for only certain applications or can be completely turned off.

DEP settings can be changed through the GUI application but a command level script must be run to completely disable the application.

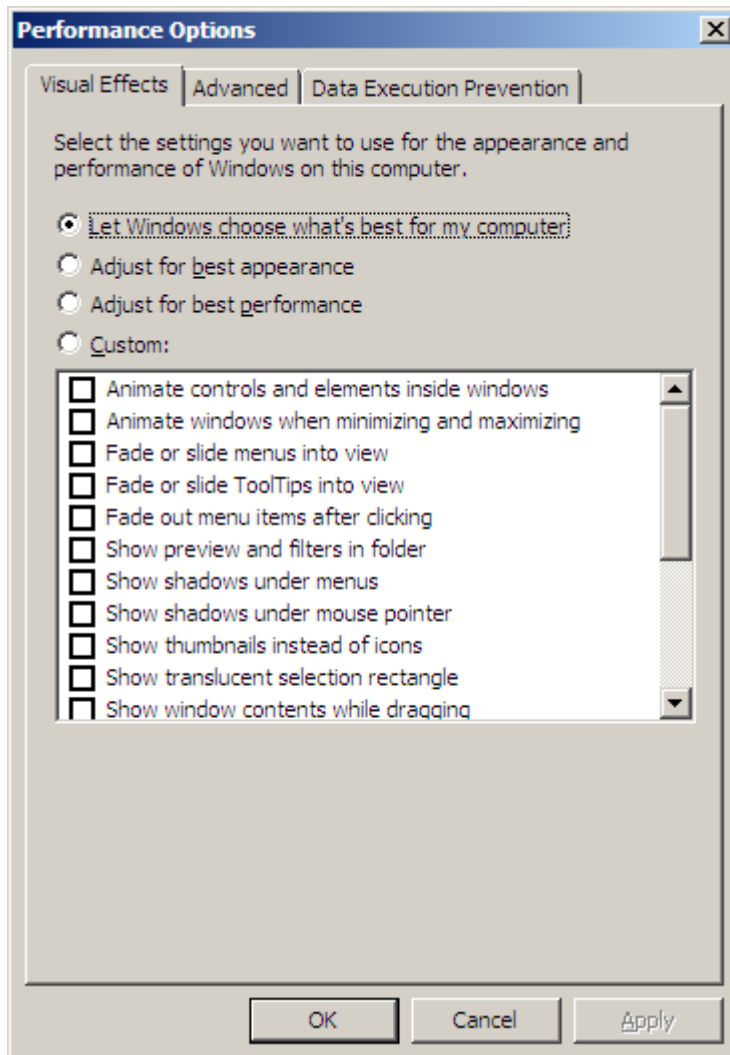
1. Check the current settings for DEP by opening the System application as shown below then click on Advanced system settings.



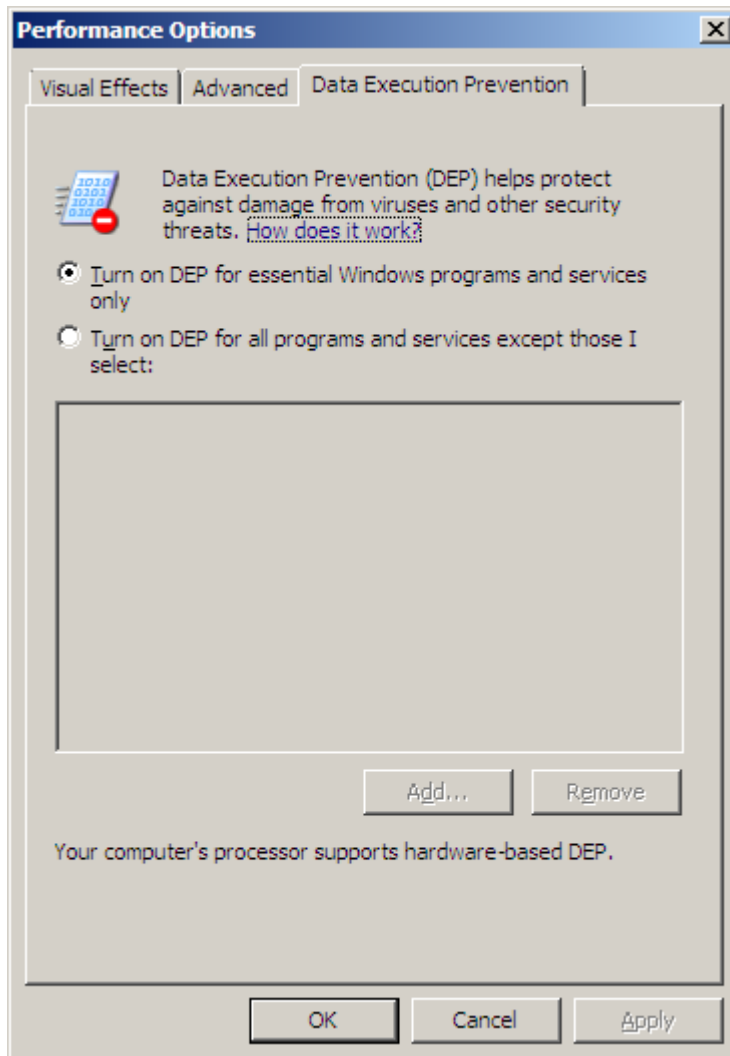
2. Click on the Advanced Tab followed by Settings in the Performance section.



3. Click on the Data Execution Prevention Tab.

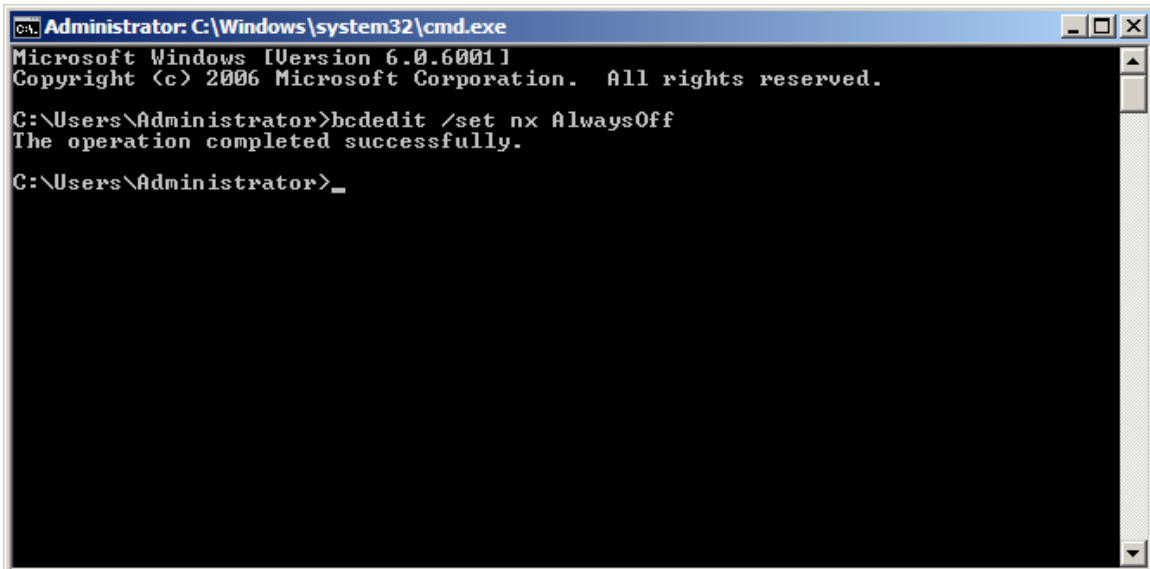


4. In this example DEP is turned on for essential programs and services only.



5. Open a Command Line window and enter `bcdedit /set nx AlwaysOff`.

6. Reboot the PC and then check the status of DEP.

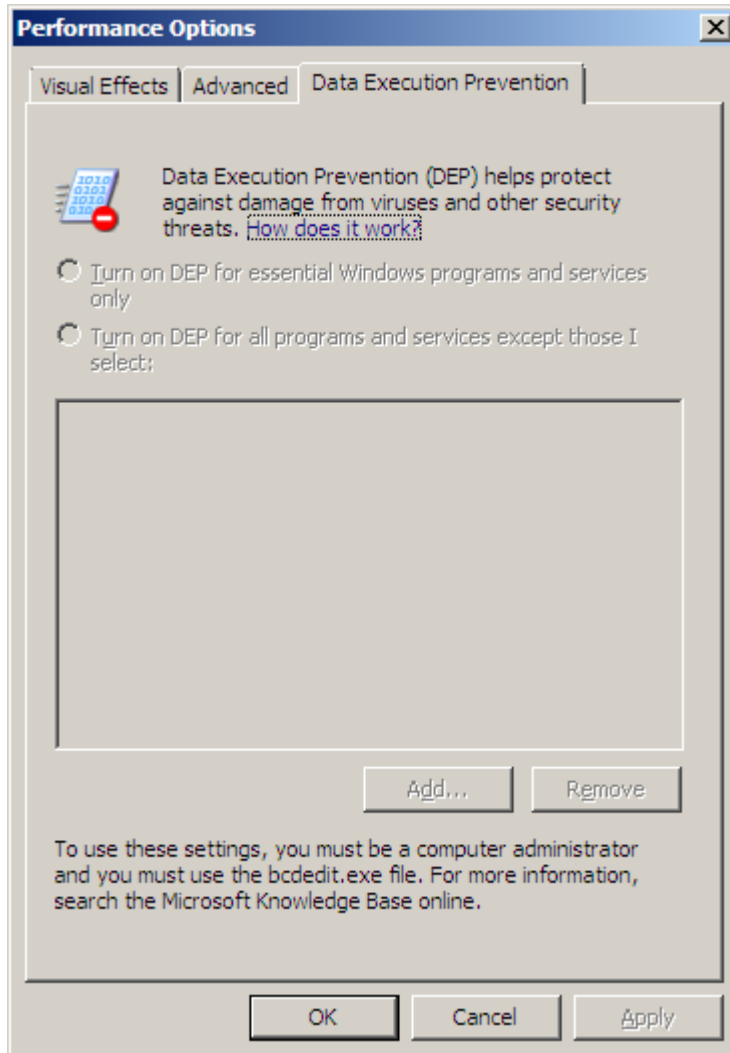


```
Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.0.6001]
Copyright (c) 2006 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>bcdedit /set nx AlwaysOff
The operation completed successfully.

C:\Users\Administrator>_
```

- Note both options are now grayed out above. This indicates that DEP is completely disabled for this machine.





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