SQL 2016 Configuration Guide

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Introduction

This instruction manual has been created to assist you with loading Microsoft® SQL Server® 2016. In this document, we detail the steps necessary for Microsoft SQL Server 2016 to be implemented in your business. You may also need your Windows® install CD.

⚠ ***You are advised to Proceed With Caution!***

Before loading this version of SQL Server, you must verify that your software is ImproMed or ImproMed Equine v6.0 or higher or Infinity v5.2 or higher or Triple Crown v3.2 or higher (***hereinafter referred to as "Software"***). Earlier versions of your Software may have compatibility issues with the changes Microsoft has made to their SQL Server product.

You can verify that you are on the correct version from the Software desktop by clicking **Help** | **About ImproMed Software**. The version number will be displayed.

It must be clearly understood that **this is a Microsoft product installation** and not an ImproMed product installation. As a Microsoft Partner, Covetrus, Inc. has the rights to distribute certain Microsoft products at a reduced cost to its customers. This distribution of SQL Server falls into this category.

Microsoft SQL Server 2016, once installed, becomes an integrated component of the Microsoft operating system. Because of this close integration there exists the possibility of conflicts and the need to troubleshoot and repair certain aspects of the operating system. These potential issues are noted here in an effort to inform you, the consumer, of possible problems that could extend the time required to implement this version of Microsoft SQL Server 2016.

Fortunately, most SQL Server 2016 installations will be clean installs on newly configured servers, which are unlikely to experience any of these potential difficulties. However, for servers with SQL 2000, there isn't a direct installation to SQL 2016. It will be necessary to install SQL 2008 then upgrade to SQL Server 2016. With that in mind, please proceed through the following installation instructions to load Microsoft's SQL Server 2016 product.

If, after having read this entire set of instructions, you have any questions about the risks associated with this installation, please contact ImproMed Customer Support at (800) 925-7171. We would be happy to answer any questions you may have.

⚠ ***Please be aware, however, this is NOT an ImproMed product. If your install does not complete correctly, or if your server fails to function correctly once the product is installed, you will need to contact Microsoft for assistance.***
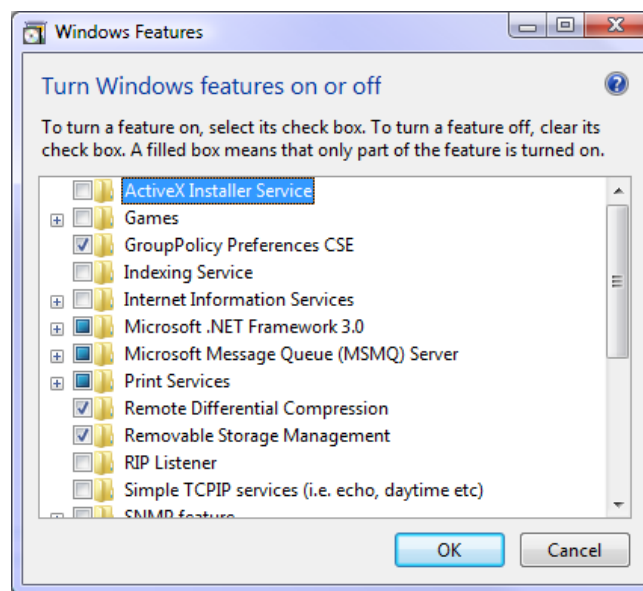
SQL 2016 Server Requirements

For a successful installation of SQL Server 2016, refer to the Hardware and Software Requirements presented by Microsoft: https://docs.microsoft.com/en-us/sql/sql-server/install/hardware-and-software-requirements-for-installing-sql-server#hwswr.

- ✓ Windows 8.1 <or newer> or Windows Server 2012 <or newer>
- ✓ .NET 4.6.1 is required for SQL Server Management Studio.
- ✓ Hardware requirements - contact **Hardware Sales at (800) 925-7171** for current recommendations.

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Installing Internet Information Services (IIS)

⚠️ *IIS is only required to be installed if Reporting Services will be loaded (see page 8). Reporting Services is required for use with an integration like Statements Plus.*

1. Log into the database server as **Administrator**.

2. Click **Start | Control Panel.**

3. Double-click **Programs and Features**.

4. Click **Turn Windows features on or off**.

5. Enter the administrator **Username** and **Password**.

6. If Internet Information Services (IIS) is checked, click Cancel, then click ❌ and proceed to "Installing Microsoft SQL Server 2016" on page 5 of this guide.
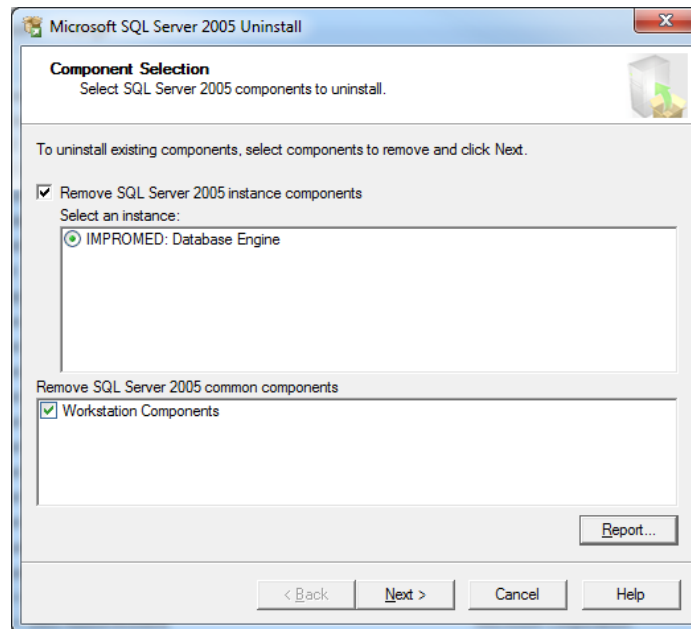

7. Place a check next to Internet Information Services (IIS).

8. Click **OK**.

9. Click **Finish**.

10. Click ❌ to close the screen.

11. Reboot the server.

12. Proceed to the "Install SQL Server 2016" on page 6 portion of this guide.

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Installing Microsoft SQL Server 2016

The following instructions assume that you currently have Microsoft SQL Server 2005 or higher installed on the server.
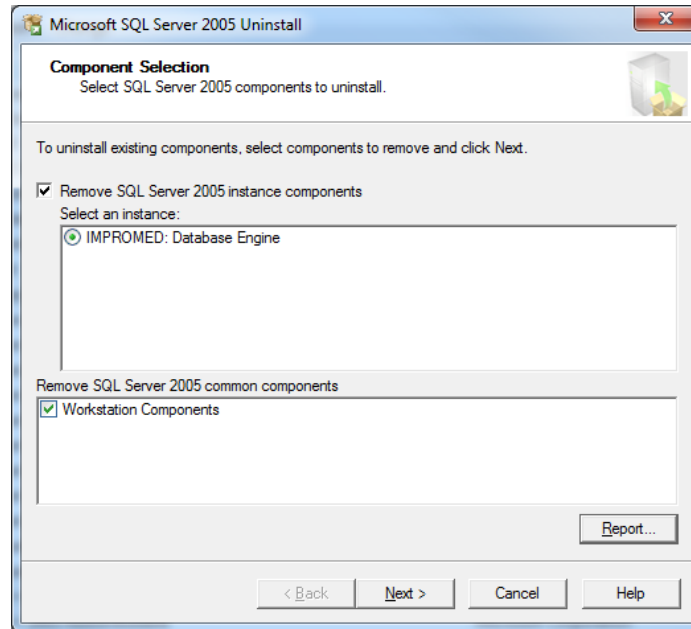
Remove Existing SQL Server 2005 or Higher

1. Log into the database server as **Administrator**.

2. Click **Start | Control Panel**.

3. Click **Programs and Features**.

4. Highlight Microsoft SQL Server 20xx.

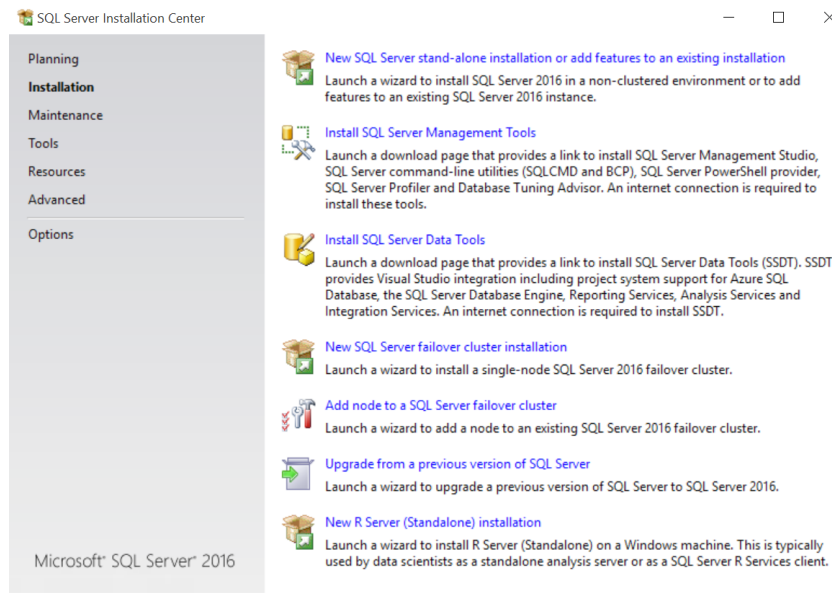5. Click **Uninstall**. The Microsoft SQL Server 20xx Uninstall dialog box opens.

6. Select the instance that will be displayed.

7. Select the option to remove Workstation Components.

8. Click **Next**.

9. Reboot your server.

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Install SQL Server 2016

1. Insert the SQL 2016 disc.

✓ If the following message appears, not all prerequisites are loaded. Refer to "SQL 2016 Server Requirements" on page 3.
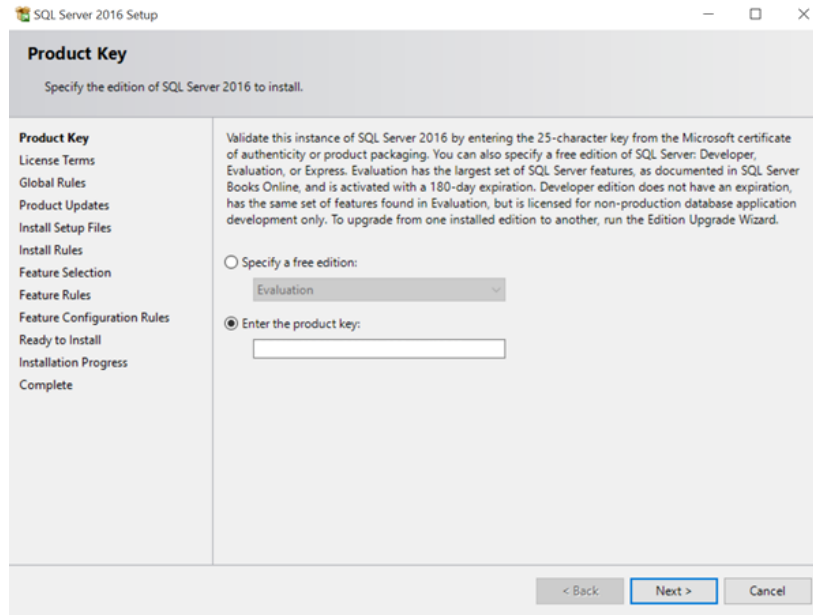

✓ If all Windows updates are loaded and prerequisites are met, the following screen appears:
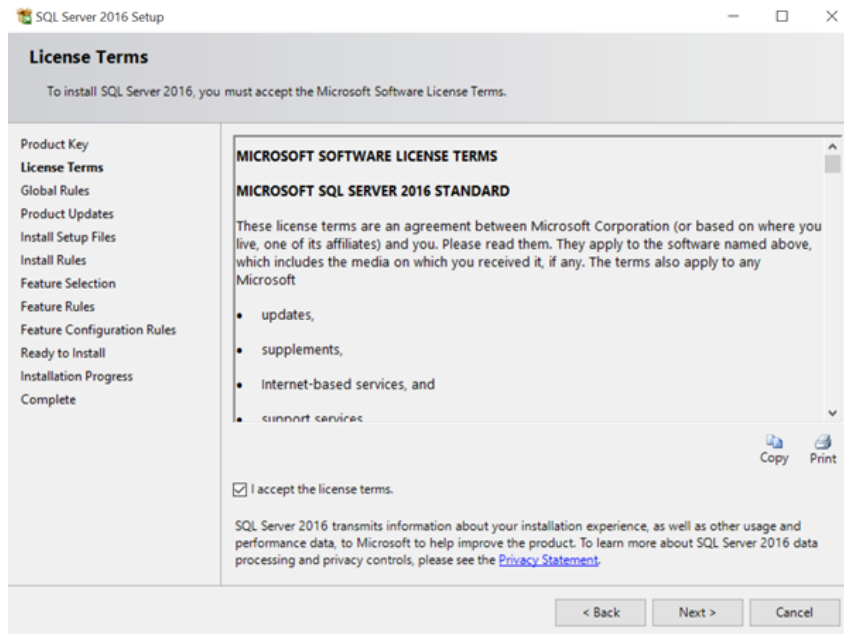

2. Click on **Installation.**

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3. Click on **New SQL Server stand-alone installation or add features to an existing installation**. The Product Key window displays.
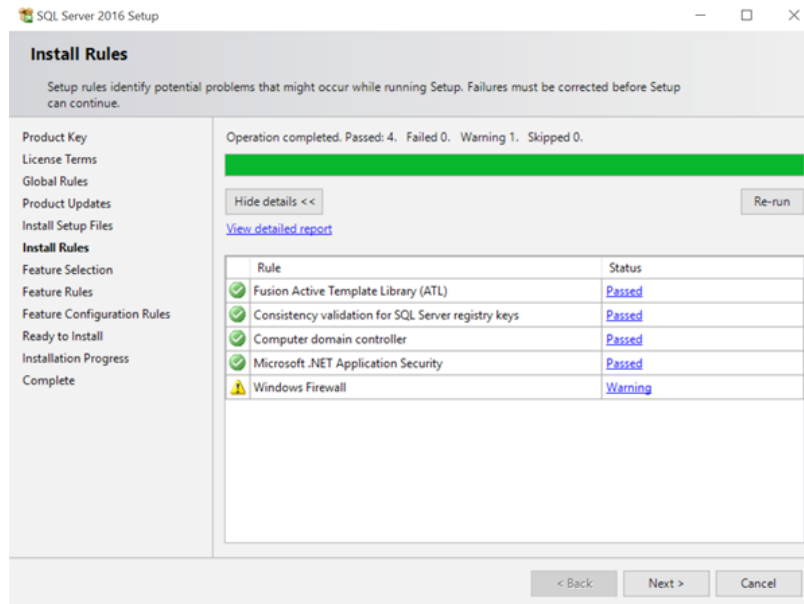

4. Enter the **Product Key** then click **Next**.

> *Your product key may populate automatically.*

5. On License Terms, select the option **I accept the License Terms** then click **Next**.
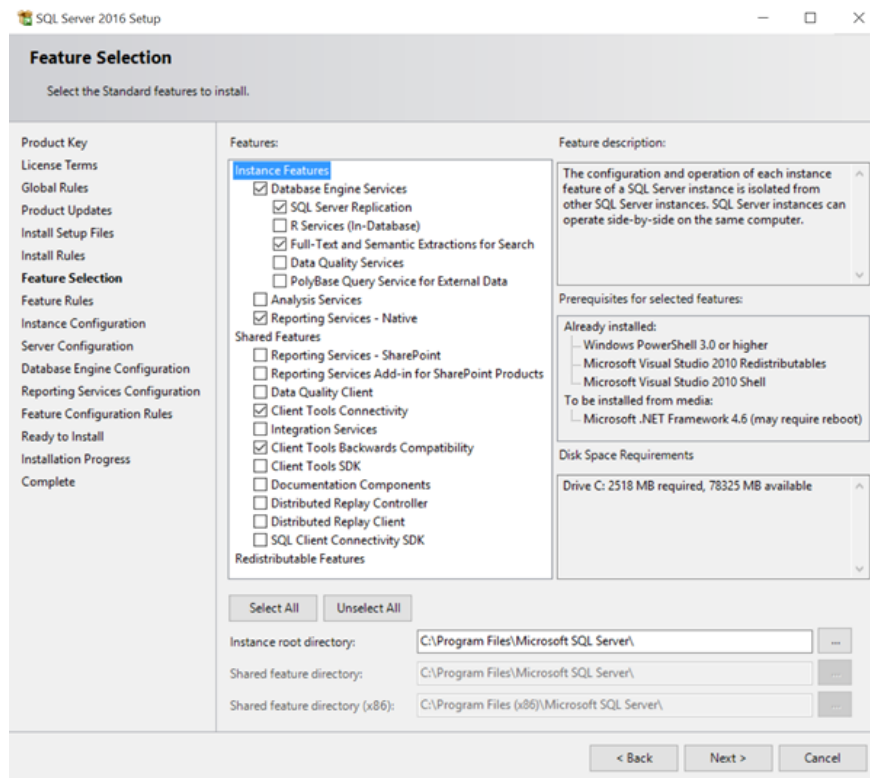
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6. Once everything is **Passed**, click **Next**.

7. Select the following **Features** as shown in the image below:
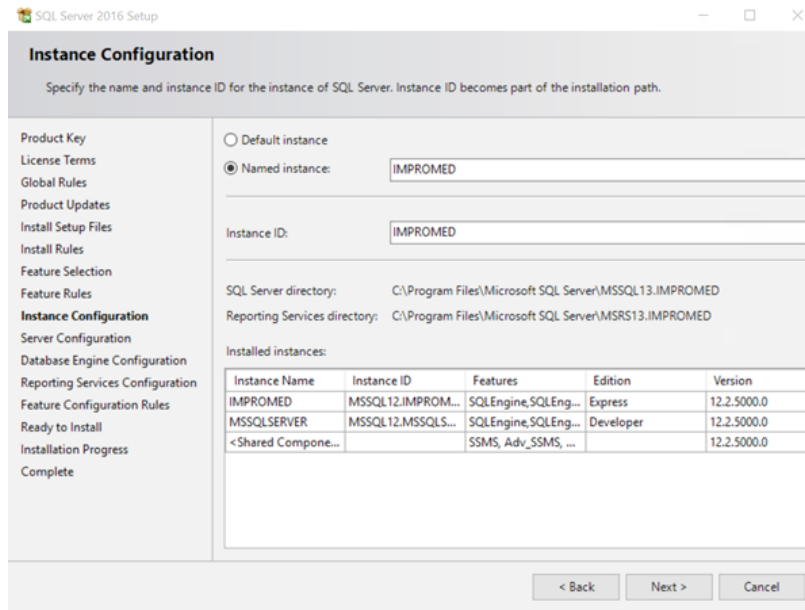
⚠️ *It is not necessary to install Reporting Services automatically unless the business uses an integration like Statements Plus, which requires it.*
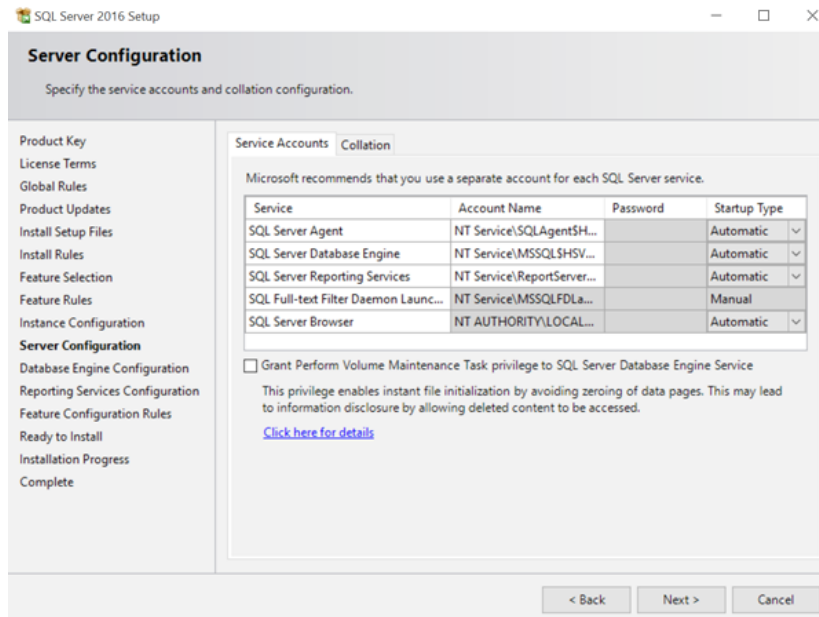

8. Click **Next**.

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9. On **Instance Configuration**, type **IMPROMED** in the **Named Instance**.
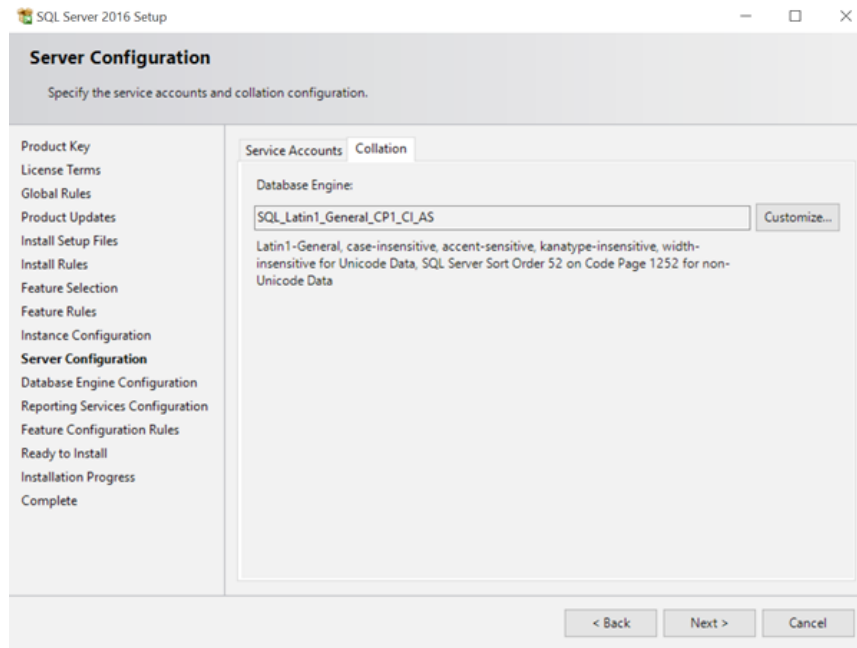

10. Click **Next**.

11. Set the Server Configuration to the following:

    a. SQL Server Agent, SQL Server Database Engine, SQL Server Reporting Services and SQL Server Browser to **Automatic**.

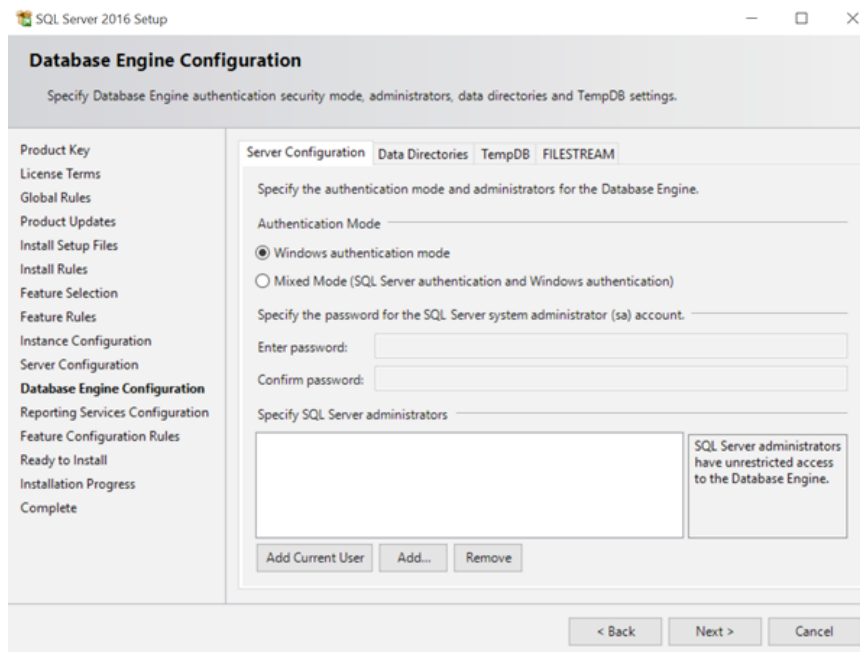   b. Leave the SQL Full-text Filter Daemon Launcher as **Manual**.

12. Click on the **Collation** tab.

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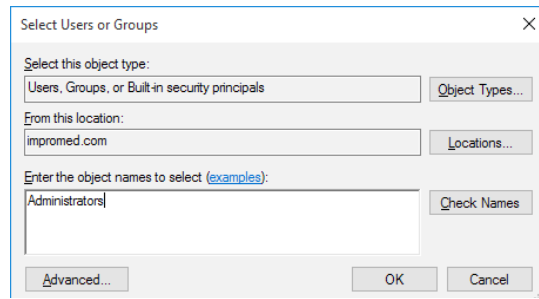13. Verify the Database Engine is: **SQL_Latin1_General_CP1_CI_AS**.

14. From Server Configuration, click **Next**.

15. On Database Engine Configuration, verify Windows authentication mode is selected.
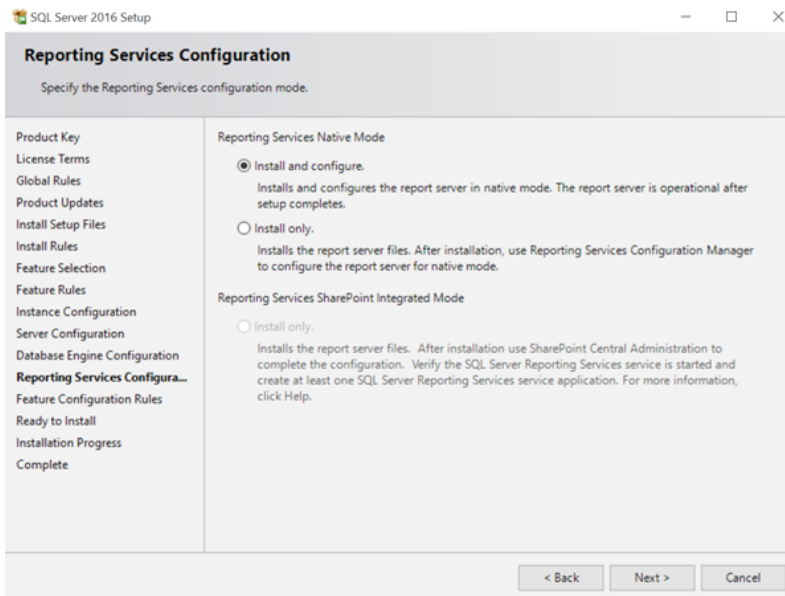
16. Click on the **Add Current User** button.

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17. Click the **Add...** button. The Selected Users, Computers, Service Accounts, or Groups dialog box opens.
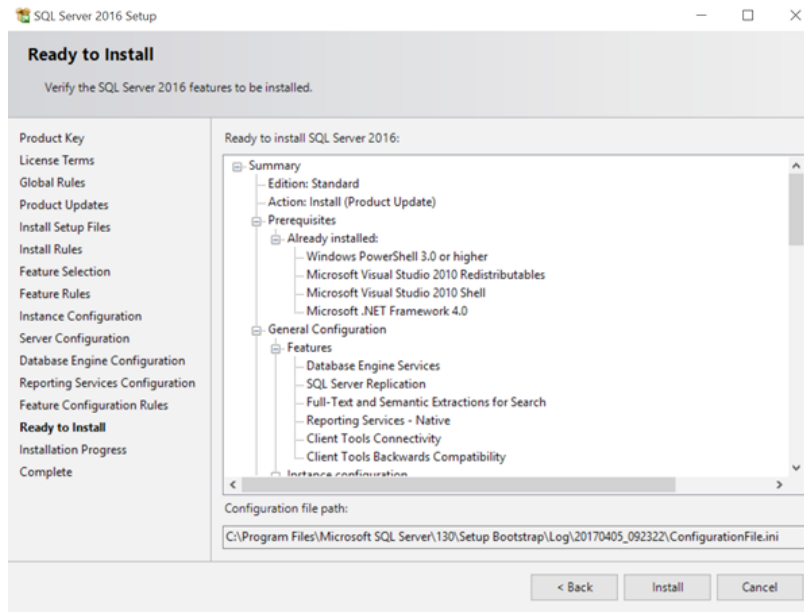
18. Type **Administrators**.

19. Click **OK**.

20. Click **Next** from the Database Engine Configuration screen.

21. On Reporting Services Configuration, verify **Install and configure** is selected.
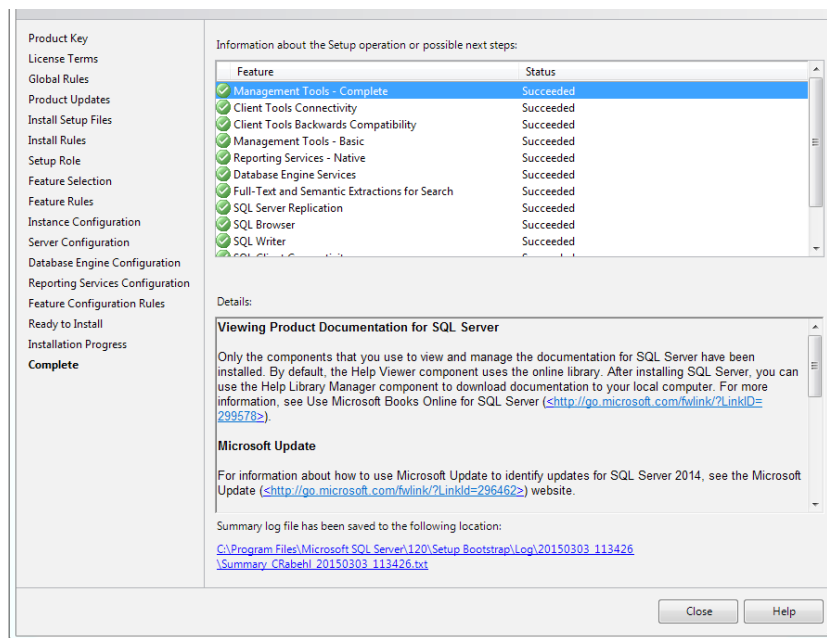

22. Click **Next**.

23. From the Ready to Install screen, click **Install**. SQL Server 2016 will now install.

24. Upon completion of the SQL 2016 installation, click the **Close** button in the Complete window.
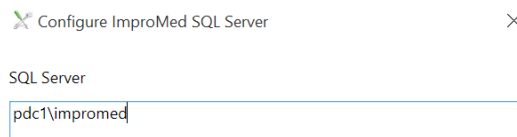
Installing SP1

After installing SQL 2016, run the file that installs the service pack. If you received the SQL 2016 DVD from ImproMed, the service pack is on the DVD. If the service pack isn't run, it will come through on Windows Updates and the download will take some time.

1. Open the SQL 2016 DVD or the folder where the SQL 2016 installation files and folders were copied to.

2. Double-click on the folder labeled **SP1**.

3. Double-click on SQLServer2016SP1-KB3182545-x64-ENU.exe.

4. Follow the prompts to install the service pack.

Create Server

1. Double-click on My Computer or click Start | [My] Computer.

2. Double-click on **Local Disk (C:)**.

3. Double-click on **Program Files [(x86)]**.

4. Double-click the Software folder.

5. Double-click on 🔑 iinstaller.exe.

6. Type the name of your Server. Use the format: [Server Name]\IMPROMED.

<div align="center">

✕ Configure ImproMed SQL Server	✕
SQL Server	
pdc1\impromed	

</div>

📋   *PDC1 is the standard ImproMed naming convention for the server.*

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7. Click **OK**. When finished, a message appears indicating the installation is complete.

8. Click **OK** on the message.

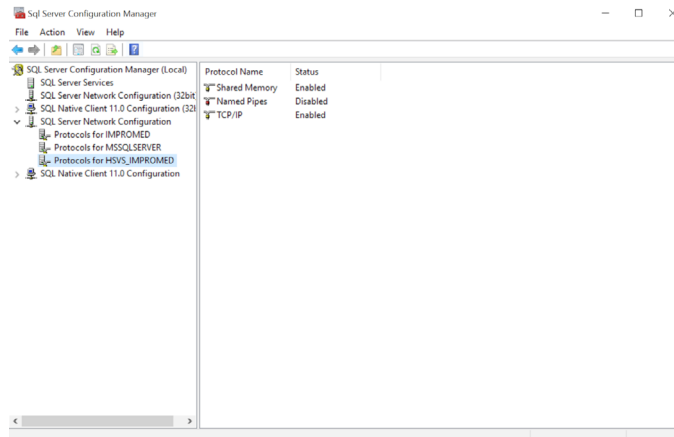9. Click **Cancel** when finished.

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Setting SQL Ports Manually

When SQL has multiple instances installed, it may be necessary to set SQL to recognize the Software by manually configuring the port used by the Software instance.
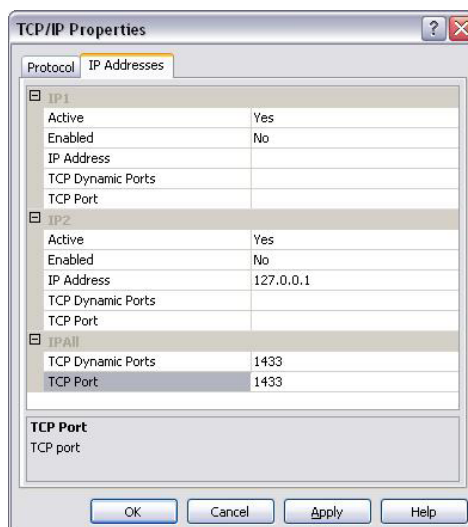
⚠️ *If any upgrades are done to Microsoft SQL 2016, before using the Software, the ports may need to be configured again.*

1. Click **Start | Programs | Microsoft SQL Server 2016 | Configuration Tools | SQL Sever Configuration Manager**.
2. Click the + next to SQL Server Network Configuration.
3. Click and highlight **Protocols for IMPROMED**.

4. Double-click the **TCP/IP** protocol (located on the right hand side).
5. Click the **IP Adresses** tab.
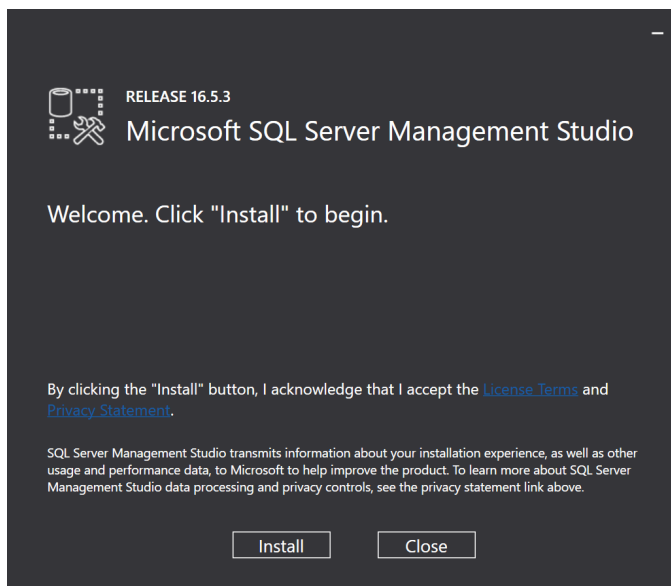6. Click the + next to IP All.

7. The TCP Dynamic Ports and TCP Port should both be set to **1433**.
8. Click **Apply** and **OK** to save the settings.
9. Click ❎ to close until everything is closed.
10. Restart the server.

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Appendix A: Installation of Management Studio

SQL Server Management Studio (SSMS) is a software application used for configuring, managing, and administering all components within Microsoft SQL Server. This application has its own setup.exe separate from SQL 2016.

1. From the SQL 2016 installation folder, navigate to the folder labeled **Management Studio**.

2. Double-click on **SSMS-Setup-ENU.exe** to install Management Studio.

3. Click **Install**.

4. If prompted to Restart, click **Restart** to complete the setup.