How to – Install MS SQL Server Express
EventTracker v8.x
Abstract

This guide helps users to install MS SQL Server Express Edition 2005/2008/2008 R2/2012/2012 R2/2014/2016 as a pre-requisite for EventTracker.

Target Audience

EventTracker users who wish to install MS SQL Server Express as a pre-requisite for EventTracker.

⚠️

The installation of MS SQL Express provided by Microsoft makes significant changes to the computer. This guide does not cover every possible failure mode. Please exercise caution during installation as a failed install may cause system instability.

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Introduction

Microsoft provides many SQL Server editions with variety of features for different type of users. The mainstream editions are Standard, Enterprise, Datacenter, Web, Business Intelligence, Workgroup, and Express etc. In this document we would be focusing mainly on installing the Express Edition.

**Microsoft SQL Server Express** is a version of Microsoft's SQL Server relational database management system that is free to download or distribute. The various versions of MS SQL Express available are 2005, 2008, 2008 R2, 2012, 2012 R2, 2014, 2016 etc. It comprises a database specifically targeted for embedded and smaller-scale applications.

1. To know the type of OS used, click the **Start** button.
2. Right-click **Computer**, select **Properties**.

   The basic information about your computer is displayed like the Windows edition installed, system type, RAM, computer name, domain etc.

Based on the Windows Operating System (32/64 bit) you are using, please install the correct version of SQL Express. To know the suitable version to be installed on your machine, please refer **system requirements**. The appropriate link to download SQL 2005/2008/2008 R2/2012/2012 R2/2014/2016 Express Edition, is mentioned in **Quick View** as well as **Detail View** section.
# System Requirements

## SQL Server 2016 Express

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Memory</td>
<td>Minimum of 512 MB of RAM (2 GB or more is recommended.)</td>
</tr>
<tr>
<td>Hard Disk</td>
<td>2.2 GB of available hard disk space</td>
</tr>
<tr>
<td>64-bit Processor</td>
<td>AMD Opteron, AMD Athlon 64, Intel Xeon with Intel EM64T support, Intel Pentium IV with EM64T support, Processor Speed – 1.4 GHz or faster (2.0 GHz or faster is recommended)</td>
</tr>
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</table>

## SQL Server 2014 Express

<table>
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<tbody>
<tr>
<td>Memory</td>
<td>Minimum of 512 MB of RAM (2 GB or more is recommended.)</td>
</tr>
<tr>
<td>Hard Disk</td>
<td>2.2 GB of available hard disk space</td>
</tr>
<tr>
<td>32-bit Processor</td>
<td>Pentium III-compatible processor or faster (Processor Speed - 1.0 GHz or faster) (2 GHz or faster is recommended)</td>
</tr>
<tr>
<td>64-bit Processor</td>
<td>AMD Opteron, AMD Athlon 64, Intel Xeon with Intel EM64T support, Intel Pentium IV with EM64T support (Processor Speed – 1.4 GHz or faster)</td>
</tr>
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## SQL Server 2012/2012 R2 Express

<table>
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<tbody>
<tr>
<td>Memory</td>
<td>Minimum of 512 MB of RAM (2 GB or more is recommended.)</td>
</tr>
<tr>
<td>Hard Disk</td>
<td>2.2 GB of available hard disk space</td>
</tr>
<tr>
<td>32-bit Processor</td>
<td>Computer with Intel or compatible 1GHz or faster processor (2 GHz or faster is recommended)</td>
</tr>
<tr>
<td>64-bit Processor</td>
<td>1.4 GHz or faster processor</td>
</tr>
</tbody>
</table>
### SQL Server 2008 R2 Express

| Memory | Minimum 512 MB for SQL Server Express with Tools, and SQL Server Express with Advanced Services and 4 GB for Reporting Services that installs with SQL Server Express with Advanced Services |
| Hard Disk | 2.2 GB of available hard disk space |
| Processor | X86: Pentium III-compatible processor or faster (Processor Speed - 1.0 GHz or faster)  
X64: Minimum: AMD Opteron, AMD Athlon 64, Intel Xeon with Intel EM64T support, Intel Pentium IV with EM64T support (Processor Speed - 1.0 GHz or faster) |
| Limitations | SQL Server Express supports 1 physical processor, 1 GB memory, and 10 GB storage |

### SQL Server 2008 Express

| Memory | Minimum of 256 MB of RAM (1 GB or more is recommended) |
| Hard Disk | 1 GB of free hard disk space |
| Processor | 32-Bit Systems: Computer with Intel or compatible 1GHz or faster processor (2 GHz or faster is recommended. Only a single processor is supported)  
64-Bit Systems: 1.4 GHz or higher processor (2 GHz or faster is recommended. Only a single processor is supported) |

### SQL Server 2005 Express

| Memory | Minimum of 192 MB of RAM (512 MB or more is recommended) |
| Hard Disk | 525 MB of available hard disk space |
| Processor | Computer with Intel or compatible Pentium III 600 MHz or faster processor (1 GHz or faster is recommended) |
Quick View to install SQL Server Express

NOTE:

- To install SQL Server Express, administrator privileges are required.
- In case of any issues that couldn’t be tackled with this document, it should be referred to a ‘competent’ system administrator.
- The pre-installer check ensures that the required software to support SQL Express has been properly installed.

SQL Server 2016 Express

1. Download Microsoft® SQL Server 2016 Express from the link given below.
   

   NOTE:

   Microsoft® SQL 2016 Express includes only 64-bit versions. SQLEXPR_x64 is a native 64-bit SQL Server express and supports installation onto only 64-bit operating systems. Microsoft® SQL Server® 2016 Express is not supported for WOW64.

2. Verify the system requirements prior to installation.

3. Right-click the executable file, and then select Run as administrator.

4. Please refer detail section to complete the installation.

SQL Server 2014 Express

1. Download Microsoft® SQL Server 2014 Express from the link given below.
   

   NOTE:

   Microsoft® SQL 2014 Express includes both 32-bit and 64-bit versions. SQLEXPR32_x86 is a smaller package that can be used to install SQL Server Express onto only 32-bit operating systems. SQLEXPR_x86 is the same product but supports installation onto both 32-bit and 64-bit (WoW) operating systems.
SQL Server 2012 Express

2. Download Microsoft® SQL Server 2012 Express from the link given below.


   **NOTE:**

   Microsoft® SQL 2012 Express includes both 32-bit and 64-bit versions. SQLEXPR32_x86 is a smaller package that can be used to install SQL Server Express onto only 32-bit operating systems. SQLEXPR_x86 is the same product but supports installation onto both 32-bit and 64-bit (WoW) operating systems. SQLEXPR_x64 is a native 64-bit SQL Server express and supports installation onto only 64-bit operating systems. There is no other difference between these packages. Microsoft® SQL Server® 2012 Express is not supported on IA64 systems.

3. Verify the **system requirements** prior to installation.

4. Right-click the executable file, and then select **Run as administrator**.

5. Please refer [detail section](#) to complete the installation.

---

SQL Server 2008 R2 Express

1. Download Microsoft® SQL 2008 R2 Express by clicking the SQLEXPR.EXE or SQLEXPR32.EXE from the link given below.


2. Verify the **system requirements** prior to installation.

3. Right-click the executable file, and then select **Run as administrator**.

   **NOTE:**

   SQLEXPR32.EXE is a smaller package that can be used to install SQL Express on 32-bit operating systems only. The SQLEXPR.EXE package supports installing onto both 32-bit and 64-bit (WOW install) operating systems. There is no other difference between these packages.

4. Please refer [detail section](#) to complete the installation.
How to – Install SQL Server for EventTracker

SQL Server 2008 Express

1. Download Microsoft® SQL 2008 Express from the link given below.
   

2. Verify the system requirements prior to installation.

3. Right-click the executable file, and then select Run as administrator.  
   
   NOTE:

   SQL 2008 Express includes both 32-bit and 64-bit versions. SQLEXPR32_x86 is a smaller package that can be used to install SQL 2008 Express onto only 32-bit operating systems. SQLEXPR_x86 is the same product but supports installation onto both 32-bit and 64-bit (WoW) operating systems. SQLEXPR_x64 is a native 64-bit SQL 2008 Express and supports installation onto only 64-bit operating systems. There is no other difference between these packages.

4. Please refer detail section to complete the installation.

SQL Server 2005 Express

1. Download Microsoft® SQL 2005 Express from the link given below.


2. Verify the system requirements prior to installation.

3. Right-click the executable file, and then select Run as administrator.

4. Please refer detail section to complete the installation.
How to – Install SQL Server for EventTracker

Detail View to install SQL Server Express

Install MS SQL Server 2012 Express


2. Right-click the executable file, and then select **Run as administrator**.

   Extracting Files window displays.

   SQL Server Installation Center window displays.

   ![SQL Server Installation Center](image)

   **Figure 1**

3. Click **New SQL Server stand-alone installation or add features to an existing installation**.
4. Select **I accept the license terms** option.

5. Click the **Next >** button.

Product Updates page displays.
6. Click the **Next >** button.

Install Setup Files page displays.
7. After downloading the setup files, click the **Install** button.

   Feature Selection page displays.

8. To include all features, click **Select All** and then click the **Next >** button.
9. Select **Default instance** option.
10. Select the **Next >** button.

Server Configuration page displays.
NOTE:

SQL service in Server Configuration has to be changed from 'NT Service\MSSQL$SQLEXPRESS' to 'Network Service'. For this click the dropdown in the Account Name field and browse 'NT Authority\Network Service'.
11. Select the **Next >** button.

   Database Engine Configuration page displays.

12. Select **Windows authentication mode** option, and then select the **Next >** button.
Figure 9

Error Reporting page displays.
13. Select the **Next >** button.

Installation Progress page displays.
Complete page displays to mark the completion of installation process.
14. Click the Close button.

To check the services,

a. Click the Start button.

b. In Search Programs and Files box, type ‘services.msc’ and then press Enter key.

Services window displays.
NOTE: If the SQL has been installed already make sure the service runs in Network Service.

To change the service credentials to 'Network Service', Please follow the below steps:

a. Right-click SQL Server (SQLExpress), and then select Properties.
b. Select Log On tab, and then select This account: option.
c. Select the **Browse...** button.

Select User window displays.

d. In **Enter the object name to select (examples):** box, type ‘NETWORK SERVICE’, and then select the **Check Names** button.
e. Click the **OK** button. 
   Log On tab displays.

f. Keep the Credentials fields blank and click **Apply**.
   Warning message displays.

g. Click **OK**, and then click **General** tab.

h. If **Startup type** is **Manual** or **Disabled**, then select **Automatic**.
i. To restart the service, click **Stop**, and then click the **Start** button.

j. Click **Apply**, and then click the **OK** button.
Install MS SQL Server 2008/2008 R2 Express

   
   For SQL 2008 Express, please refer
   
   
   For SQL 2008 R2 Express, please refer
   
   
2. Right-click the executable file, and then select **Run as administrator**.

   Extracting Files window displays.

   ![Extracting Files](image)

   SQL Server Installation Center window displays.
3. Click **New Installation or add features to an existing installation.**

License terms page displays.

4. **Select I accept the license terms** option.
How to – Install SQL Server for EventTracker

5. Click the **Next >** button.

Feature Selection page displays.

6. To include all features, click **Select All** and then click the **Next >** button.

![Figure 24](image)

Instance Configuration window displays.

7. Select **Default instance** option.

![Figure 25](image)

8. Select the **Next >** button.
Server Configuration page displays.

![Server Configuration Page](image)

Figure 26

9. Select the **Next >** button.

Database Engine Configuration page displays.

10. Select **Windows authentication mode** option and then select the **Next >** button.

![Database Engine Configuration Page](image)

Figure 27

Error Reporting page displays.
11. Select the **Next >** button.

Installation Progress page displays.

Complete page displays to mark the completion of installation process.
12. Click the **Close** button.
How to – Install SQL Server for EventTracker

Install MS SQL Server 2005 Express


2. Right-click the executable file, and then select **Run as administrator**.

   Extracting Files window displays.

   ![Extracting Files](image)

   *Figure 31*

   End User License Agreement page displays.

3. Select **I accept the licensing terms and conditions** option, and then select the **Next >** button.
4. Click the **Install** button.

Installing Prerequisites window displays.
5. Click the **Next >** button.
Welcome to the Microsoft SQL Server Installation Wizard page displays.
6. Click the **Next >** button.

   System Configuration Check window displays.
7. Select the **Next >** button. Registration Information page displays.

8. Enter **Name:** and **Company:** details in the box. Select **Hide advanced configuration options.**
9. Select the **Next >** button.

Feature Selection page displays.
10. Select the **Next >** button.

   Instance Name page displays.

11. Select **Default instance** option.
Authentication Mode page displays.

12. Select **Windows authentication mode** option, and then select the **Next >** button.
13. Select **Enable User Instances** option, and then select the **Next >** button.
Error and Usage report settings page display.

Figure 41
14. Select the **Next >** button.

Ready to Install page displays.
15. Click the **Install** button.
16. Click **Next >>**, and then click the **Finish** button.
Verify installation of MS SQL Server Express

1. To verify if MS SQL Express has installed correctly, click the **Start** button.

2. In **Search Programs and Files** box, enter **services.msc**.

   Services window displays.

3. Select **SQL Server (SQLEXPRESS)** and verify that **Startup Type** is **Automatic**.

   ![Services window](image)

   **Figure 45**

Hence, SQL Server is installed successfully and user can start using it efficiently.
Uninstall MS SQL Server Express

1. To uninstall MS SQL Server Express, click the **Start** button, select **Control Panel**, and then select **Add or Remove Programs**.

2. Select the respective MS SQL Express Edition, and then select **Uninstall**.

After successfully uninstalling MS SQL Server, restart the computer.