Installing SQL Server Express Editions

For v9.0 (and above) of Halcyon Network Server Suite, Advanced Reporting Suite, Performance Analyzer GUI and Disk Explorer GUI

About this Guide

This document provides basic installation and configuration instructions for Microsoft$^{®}$ SQL Server$^{®}$ Express Editions for v9.0 (and above) installations of Halcyon Network Server Suite, Advanced Reporting Suite, Performance Analyzer and Disk Explorer GUI.

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SYSTEM REQUIREMENTS

The following system requirements must be in place in order for the installation of Microsoft SQL Server Express Editions to be successful. 64-bit configuration is required for any 64-bit versions of Windows. V9.0 of Network Server Suite, Performance Analyzer GUI and Disk Explorer GUI can also run on 32-bit versions of Windows. If the Windows version is earlier than those listed below, use SQL Server 2008 Express. These installation instructions apply to both SQL Server versions.

SQL Server 2008 Express System Requirements

Supported Operating Systems:

- Windows Server 2003 Service Pack 2
- Windows Server 2008
- Windows Vista
- Windows Vista Service Pack 1
- Windows XP Service Pack 2
- Windows XP Service Pack 3

Minimum Hardware

- **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)

- Minimum of 256 MB of RAM (1 GB or more is recommended)
- 1 GB of free hard disk space

SQL Server 2012 Express System Requirements

Supported Operating Systems

- Windows 7
- Windows Server 2008 R2
- Windows Server 2008 Service Pack 2
- Windows Vista Service Pack 2

Minimum Hardware

- **32-bit systems**
  - Computer with Intel or compatible 1GHz or faster processor (2 GHz or faster is recommended.)
- **64-bit systems**
  - 1.4 GHz or faster processor

- Minimum of 512 MB of RAM (2 GB or more is recommended.)
- 2.2 GB of available hard disk space

SQL Server 2016 Express System Requirements

Supported Operating Systems

- Windows 8
- Windows 10
- Windows Server 2012
- Windows Server 2012 R2

Minimum Hardware

- Intel compatible processor with a minimum speed of 1.4 GHz or faster
- Minimum of 512 MB of RAM (2 GB or more is recommended.)
- 4.2 GB of available hard disk space

☞ **Note:**   *When installing SQL Server 2016 Express you must also install the SQL Management Studio tool as a separate utility.*

Download Instructions

You must have administrative rights on the computer to install SQL Server Express.

We recommend that you read the SQL Express Release Notes and Readme prior to installation.

1 Download and install Microsoft .Net Framework 3.5 SP1

2 Download and install Windows Installer 4.5

3 Download and install Microsoft SQL Server 2012 Express as per instructions below.

SQL Server 2008 Express Download link

http://www.microsoft.com/en-gb/download/details.aspx?id=22973

Select the applicable installer as shown below. These installers include the SQL Management Studio tool:

• SQLEXPRWT_x64_ENU.exe64bit (230.4MB)

• SQLEXPRWT_x86_ENU.exe32bit (218.6MB)

SQL Server 2012 Express Download link

http://www.microsoft.com/en-gb/download/details.aspx?id=29062

Select the applicable installer as shown below. These installers include the SQL Management Studio tool.

• ENU\x64\SQLEXPRWT_x64_ENU.exe64bit (669.9MB)

• ENU\x86\SQLEXPRWT_x86_ENU.exe32bit (706.1MB)

SQL Server 2016 Express Download link

https://www.microsoft.com/en-gb/download/details.aspx?id=52679

Click **Download** to download the required executable file.

When installing SQL Server 2016 Express you must also install the SQL Management Studio tool as a separate utility. Please see the link below.

SQL Server Management Studio Download link

https://msdn.microsoft.com/en-us/library/mt238290.aspx

The following installation and configuration instructions have been based on SQL Express 2012, but can be applied to SQL Express 2008 and 2016.

INSTALLATION

Microsoft .NET Framework

Use the following instructions to install Microsoft SQL Server 2012 Express:

1 Download and enable Microsoft .Net Framework 3.5 SP1.

http://www.microsoft.com/en-us/download/details.aspx?id=22

2 Download and install Microsoft .Net Framework 4.0.

http://www.microsoft.com/en-us/download/details.aspx?id=17851

☞ **Note:** *An SQL Database that is stored locally does not require any .NET Framework installation.*

SQL Server Express (with database engine only) can work with either .NET 3.5 SP1 or NET 4. There is no need to have both versions enabled.

Microsoft SQL Server 2012 Express installation

1 Download and install Microsoft SQL Server® 2012 Express as per instructions below.

http://www.microsoft.com/en-gb/download/details.aspx?id=29062

2 Select the applicable installer as shown below. This installer includes the SQL Management Studio tool.

ENU\x64\SQLEXPRWT_x64_ENU.exe64bit (669.9MB)

ENU\x86\SQLEXPRWT_x86_ENU.exe32bit (706.1MB)

☞ **Note:** *For operating systems prior to Windows 7, the same instructions can be applied for installing SQL Server 2008 Express.*

3 Once the installer has completed the extraction, click on the option:

'New SQL Server stand-alone installation or add features to an existing installation'
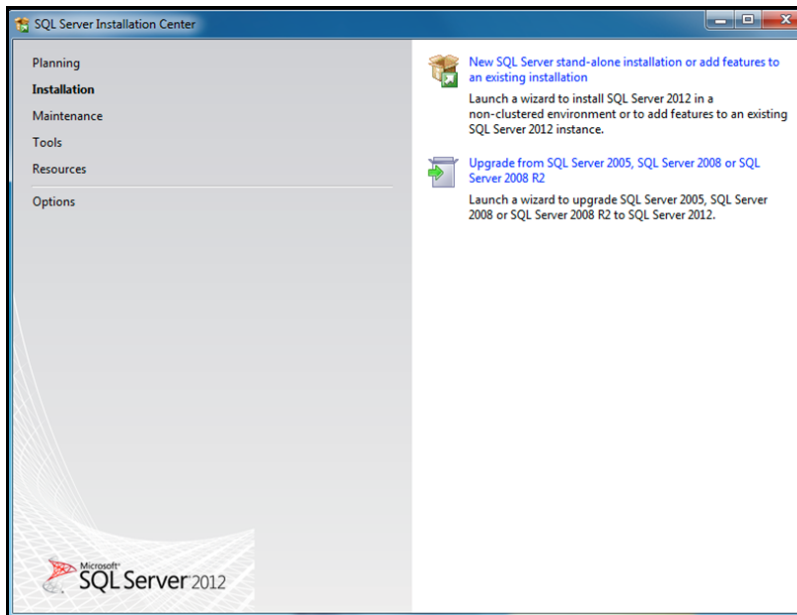
4 Tick to accept the license terms and click **Next**.
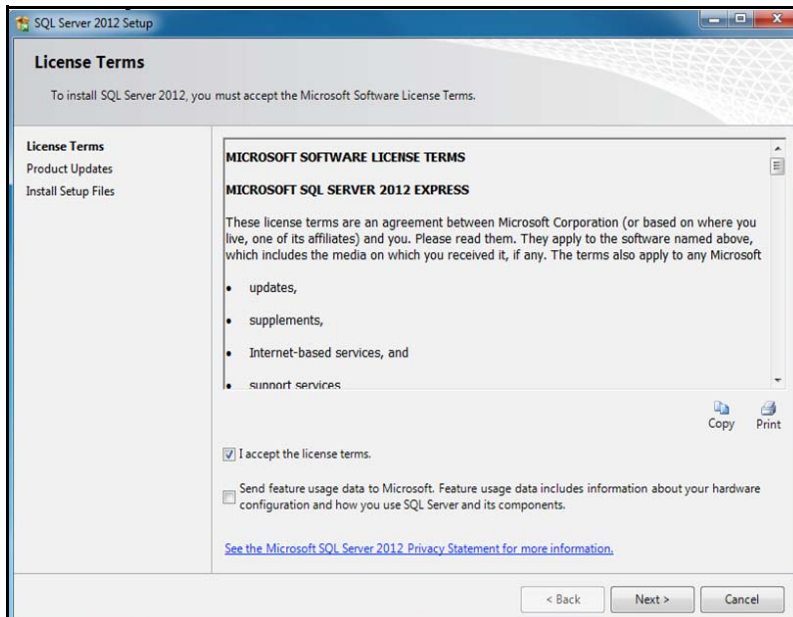
Feature Selection

5 SQL installs the initial files. Once the successful installation of all the initial files is complete, click **Install**. Once the Feature Selection dialog is displayed ensure the **feature selection boxes** are ticked as in the screenshot below and then click **Next**.
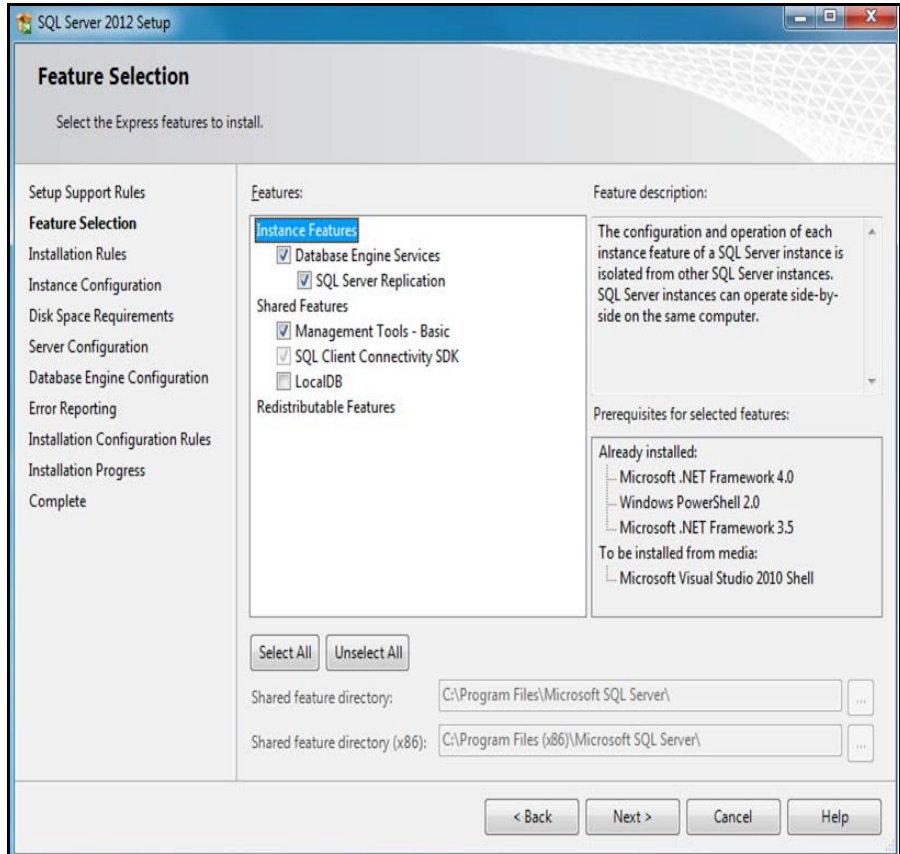
Instance Configuration

6 On the Instance Configuration dialog, change the **Named Instance** to **HALCYON**. The current path for the instance root directory can remain as the default setting, or you can change this to best suit your environment. See your Systems or Database Administrator for more assistance with this setting. Click **Next** to continue.

Server Configuration

7 On the **Server Configuration** dialog and in order that the service runs correctly, change the entry defined for the **SQL Server Database Engine** to **NT AUTHORITY\LOCAL SERVICE** (as shown in the screenshot below) and click **Next** to continue.
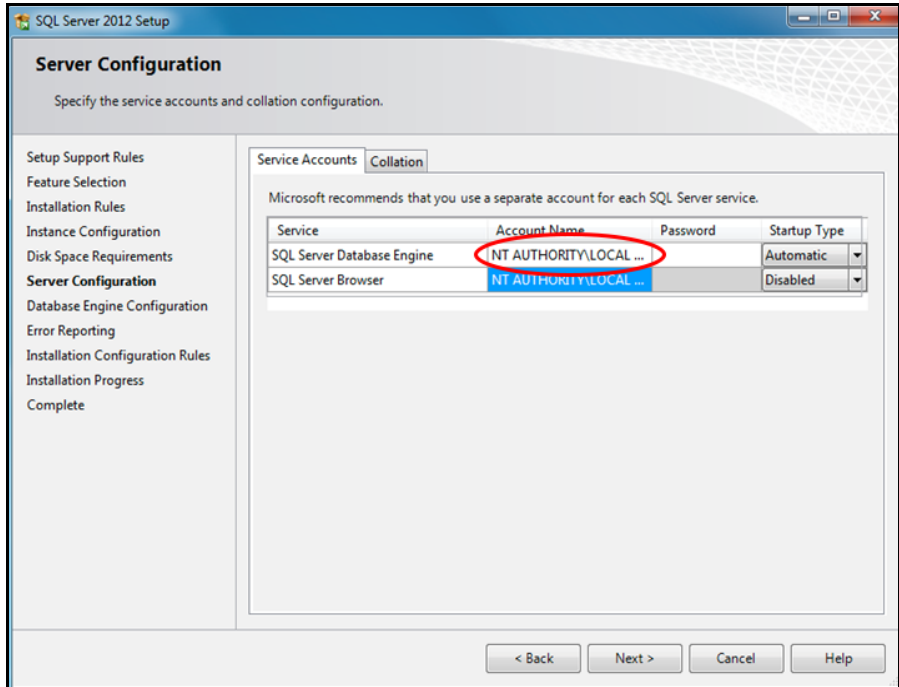
Database Engine Configuration

8 For the Database Engine Configuration, it is recommended that you select **Mixed Mode** and choose a password that can be remembered and shared with others if applicable. The SQL administrators should automatically be set as the current user profile that is logged in. If they are not, then click on **Add Current User**. In addition it would be advisable to at least add in local or domain administrator accounts. Should you wish to set the Data Directories to be on a drive different to the engine, then use the tabs across the top to configure according to your environment. Click **Next** to continue:.
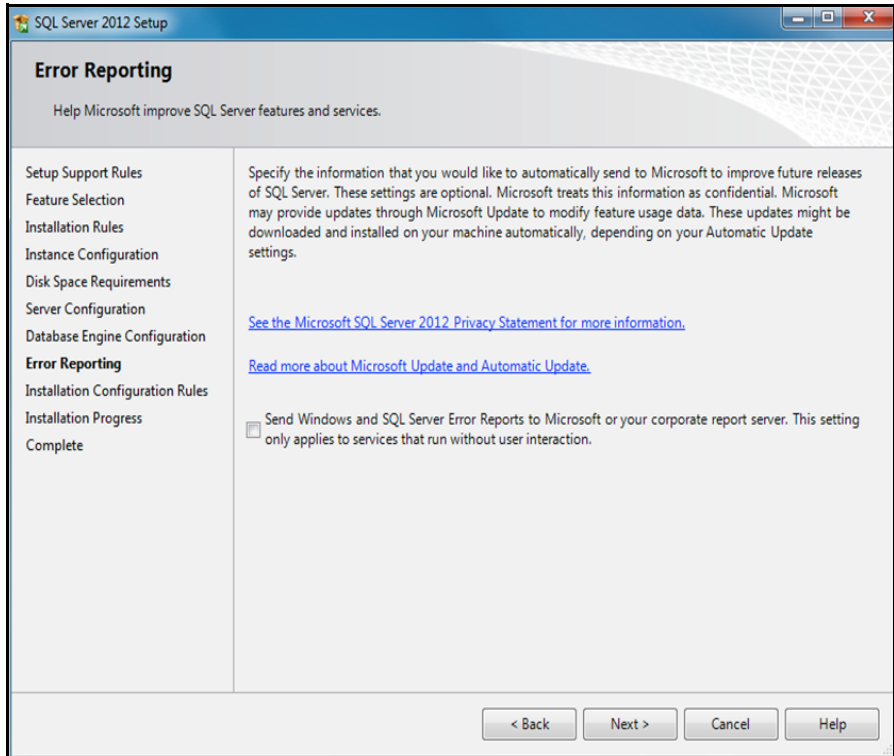

Note: *Windows Authentication can be selected where required in your environment, you will need to ensure that the account created for use is set so the password never expires.*
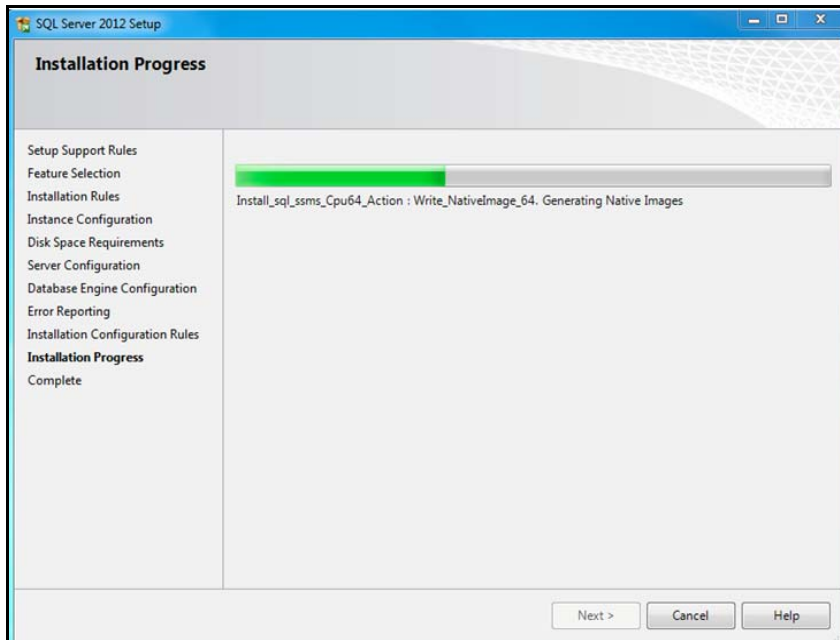
Error Reporting

9 Unless you wish to send **Windows and SQL Server Error Reports to Microsoft** you can leave the option on the Error Reporting dialog unchecked.
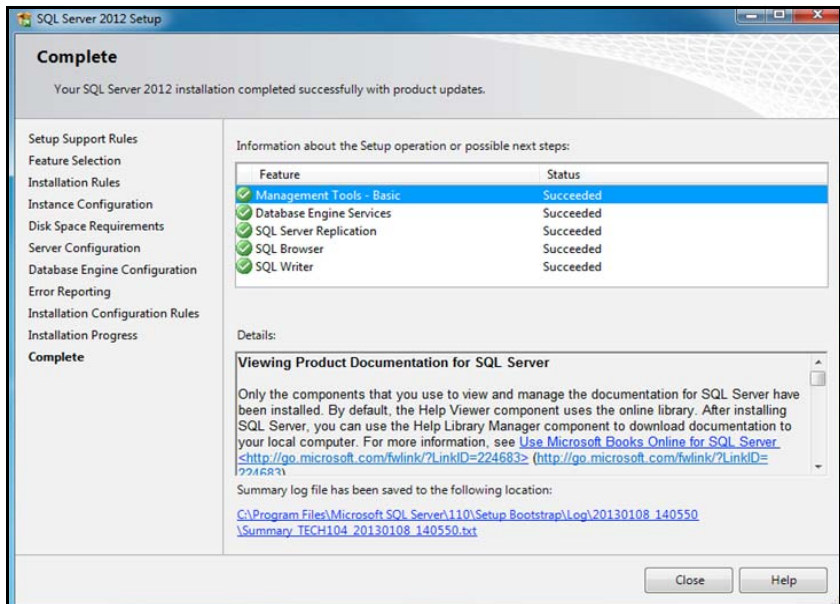

Click **Next** to continue.

The installation of SQL Server Express begins.

Upon successful completion of the install, the following dialog is displayed. Click **Close** to finish the installation.

Creating a new Login account

1 On the server where SQL is installed, go to **START | PROGRAMS | Microsoft SQL Server | SQL Server Management Studio**. Click **CONNECT**.

2 When connected to the SQL instance, expand **Security** and then **Logins** (a list of all the current accounts).

3 Right click on **Logins** and select **New login**.

4 Create a new login named '**halcyon**' and provide a password. It is important to clear the check box for the '**Enforce password policy**' option, because if the password expires, Halcyon will stop working.

5 Select **Server Roles** and then tick **sysadmin** and click **OK** when complete
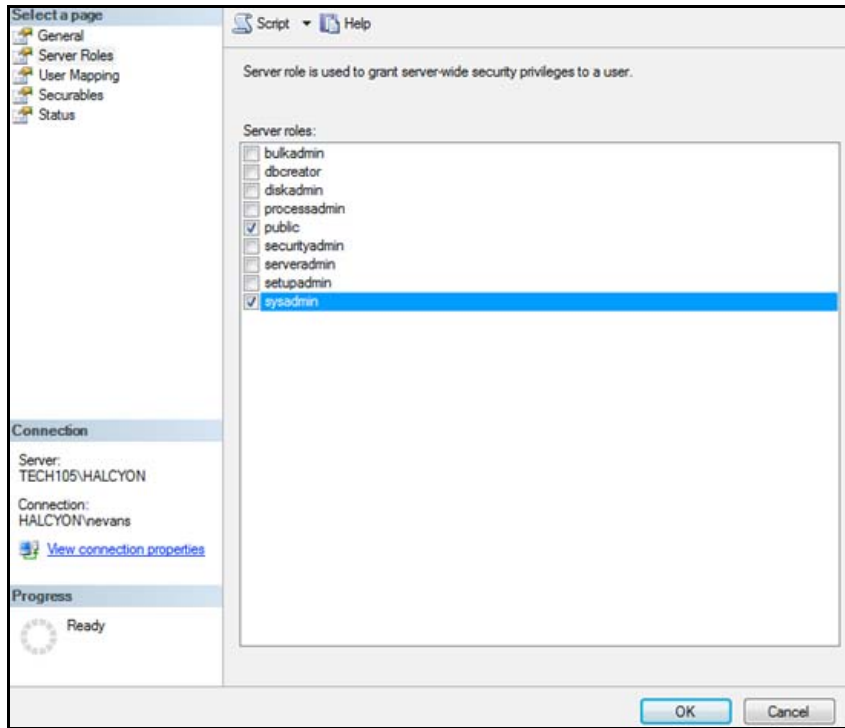
Use the same instructions for Windows Authentication, you don't need to specify a password as it has already been set.

COMPANY INFORMATION

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Accounts: accounts@halcyonsoftware.com