

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

**Note:**

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:

- SQLEXPRT_x64_ENU.exe64bit (230.4MB)
- SQLEXPRT_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\SQLEXPRT_x64_ENU.exe64bit (669.9MB)
- ENU\x86\SQLEXPRT_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.

CHAPTER 2

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

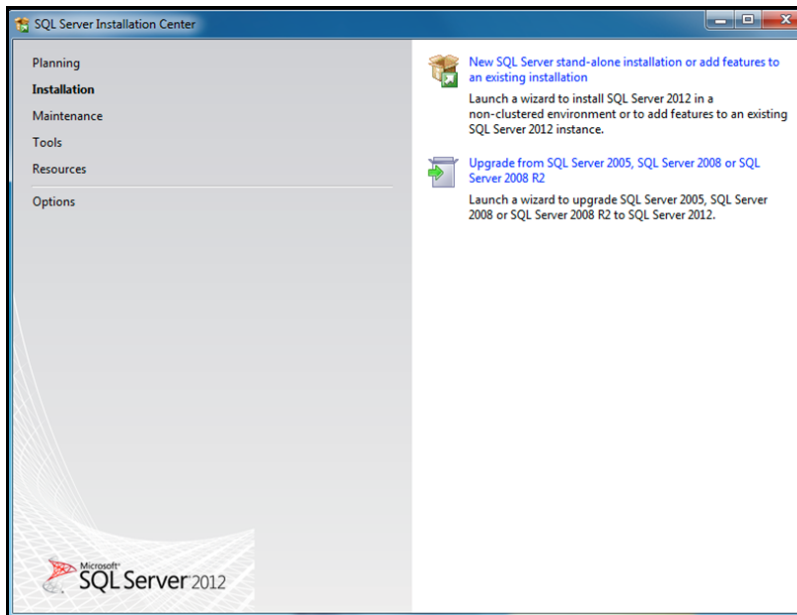
- 1 Download and install Microsoft SQL Server® 2012 Express as per instructions below.
<http://www.microsoft.com/en-gb/download/details.aspx?id=29062>
- 2 Select the applicable installer as shown below. This installer includes the SQL Management Studio tool.
ENU\x64\SQLEXPRT_x64_ENU.exe64bit (669.9MB)
ENU\x86\SQLEXPRT_x86_ENU.exe32bit (706.1MB)



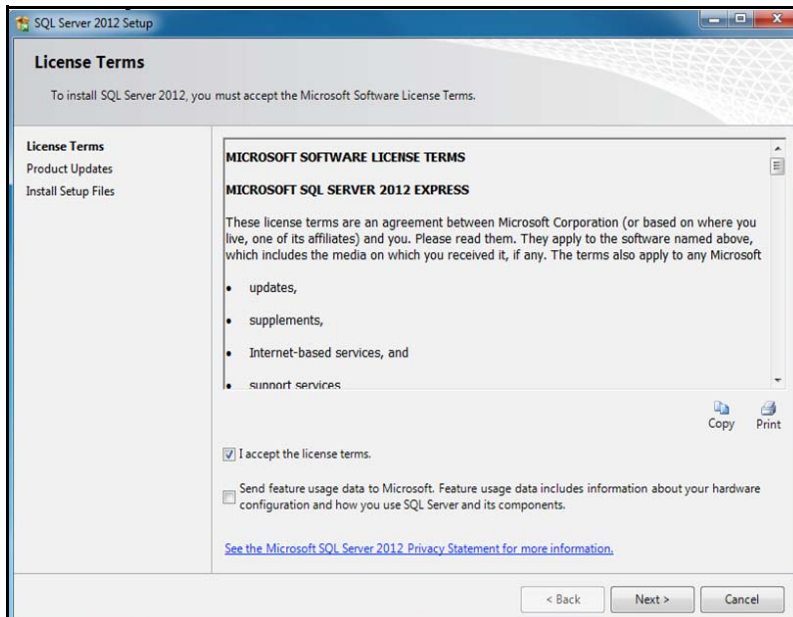
Note:

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'**

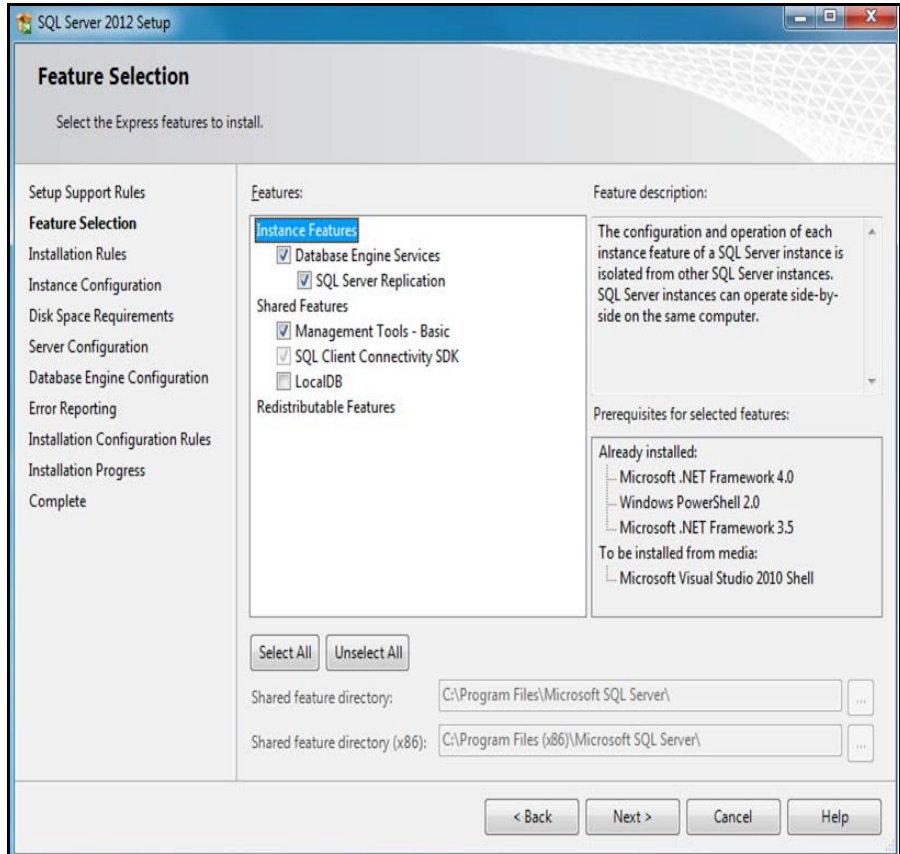


- 4 Tick to accept the license terms and click **Next**.



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

- 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.

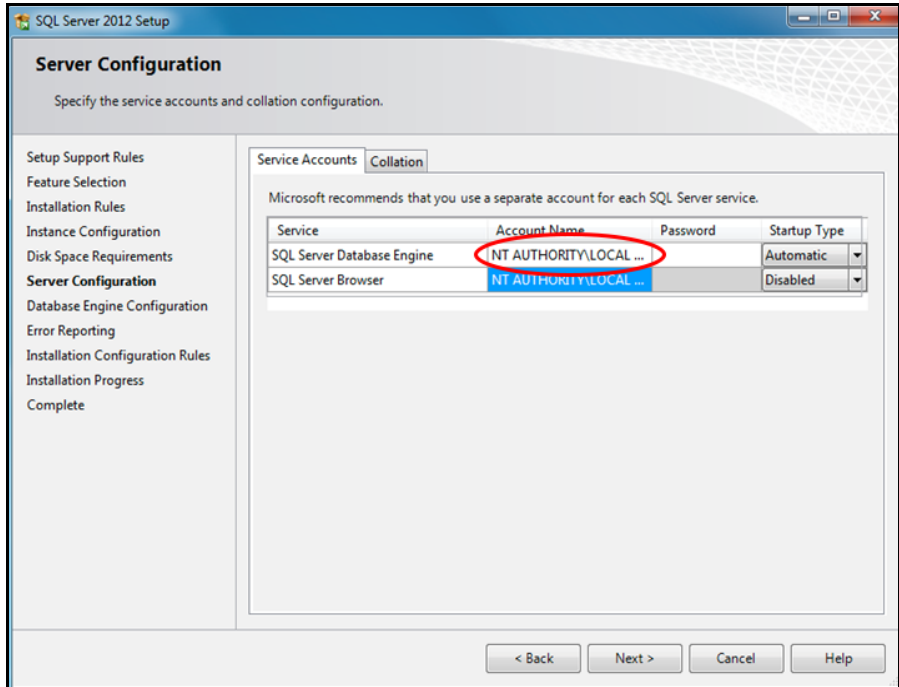
The screenshot shows the 'Instance Configuration' dialog box in the SQL Server 2012 Setup wizard. The dialog is titled 'Instance Configuration' and includes a subtitle: 'Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path.' On the left side, there is a navigation pane with the following items: 'Setup Support Rules', 'Feature Selection', 'Installation Rules', 'Instance Configuration' (which is highlighted), 'Disk Space Requirements', 'Server Configuration', 'Database Engine Configuration', 'Error Reporting', 'Installation Configuration Rules', 'Installation Progress', and 'Complete'. The main area of the dialog contains the following fields and options:

- Radio buttons for 'Default instance' (unselected) and 'Named instance:' (selected).
- A text box for the 'Named instance:' field containing the text 'HALCYON'.
- A text box for 'Instance ID:' containing the text 'HALCYON'.
- A text box for 'Instance root directory:' containing the text 'C:\Program Files\Microsoft SQL Server\' and a browse button (three dots).
- A text box for 'SQL Server directory:' containing the text 'C:\Program Files\Microsoft SQL Server\MSSQL11.HALCYON'.
- A section titled 'Installed instances:' containing an empty table with the following columns: 'Instance Name', 'Instance ID', 'Features', 'Edition', and 'Version'.

At the bottom of the dialog, there are four buttons: '< Back', 'Next >', 'Cancel', and 'Help'.

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:.

SQL Server 2012 Setup

Database Engine Configuration

Specify Database Engine authentication security mode, administrators and data directories.

Setup Support Rules
Feature Selection
Installation Rules
Instance Configuration
Disk Space Requirements
Server Configuration
Database Engine Configuration
Error Reporting
Installation Configuration Rules
Installation Progress
Complete

Server Configuration | Data Directories | User Instances | FILESTREAM

Specify the authentication mode and administrators for the Database Engine.

Authentication Mode

Windows authentication mode
 Mixed Mode (SQL Server authentication and Windows authentication)

Specify the password for the SQL Server system administrator (sa) account.

Enter password: ●●●●●●●●
Confirm password: ●●●●●●●●

Specify SQL Server administrators

HALCYON\Domain Admins (Domain Admins)

SQL Server administrators have unrestricted access to the Database Engine.

Add Current User Add... Remove

< Back Next > Cancel Help

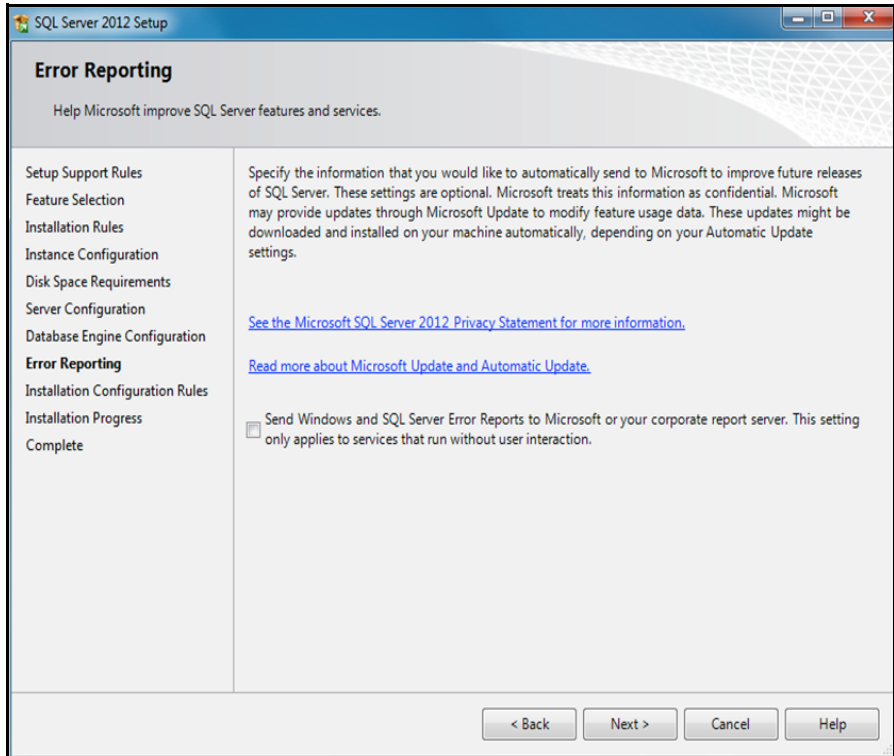


Note:

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.

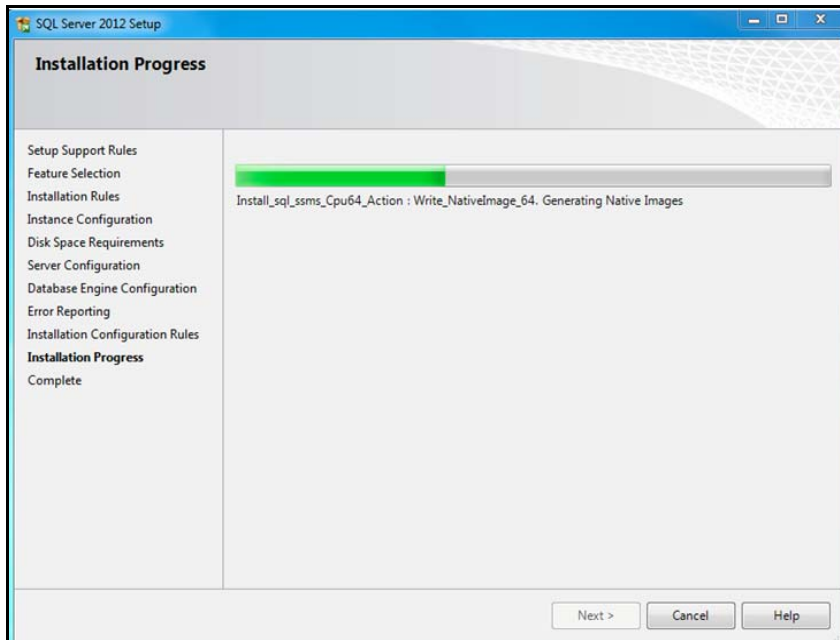
Error Reporting

- 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.

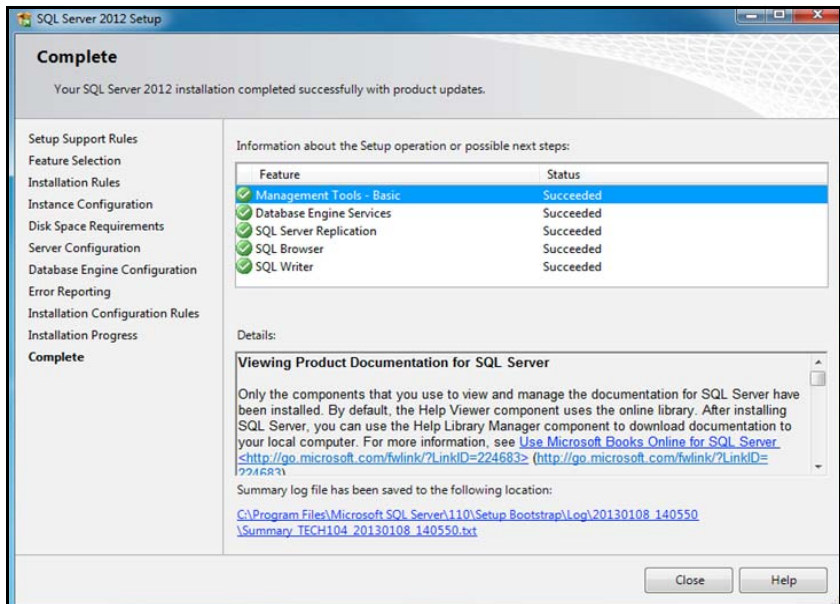


Click **Next** to continue.

The installation of SQL Server Express begins.



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

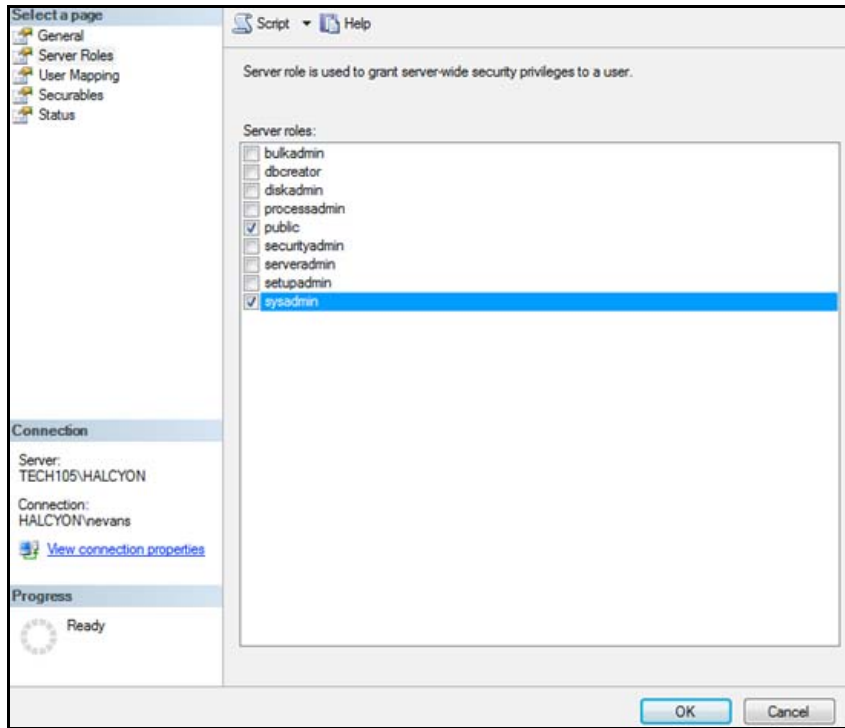


Creating a new Login account

- 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.

The screenshot shows the 'New Login' dialog box in SQL Server Enterprise Manager. The 'Login name' field contains 'halcyon'. Under 'Authentication', 'SQL Server authentication' is selected. The 'Password' and 'Confirm password' fields are filled with masked characters. The 'Enforce password policy' checkbox is checked. Under 'Mapped to', 'Mapped to certificate', 'Mapped to asymmetric key', and 'Map to Credential' are selected. The 'Mapped Credentials' table is empty. The 'Default database' is set to 'master' and the 'Default language' is '<default>'. The 'OK' and 'Cancel' buttons are visible at the bottom.

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

Head Office

Halcyon - A Division of HelpSystems
5 The Forum
Minerva Business Park
Lynch Wood
Peterborough
Cambridgeshire
PE2 6FT
United Kingdom

Tel: +44 (0) 1733 234995

URL: <http://www.helpsystems.com/halcyon>

For details of your local office or reseller, please visit www.halcyonsoftware.com and access the Contact Us, Support or Partners options.

You can also email us directly using the following email addresses:

Technical Support: technicalservices@halcyonsoftware.com

Sales: sales@halcyonsoftware.com

Accounts: accounts@halcyonsoftware.com