MS SQL SERVER 2016

INSTALLATION

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1 Introduction

This document shows how to modify the standard settings in SQL Server 2016 Express Service Pack 1 (SP1) installation for use with NaviEdit.

The best way is to use the SQL Server 2012 that is included in the NaviEdit installer. However, when using another version, e.g. SQL Server 2016, it should be installed before installing NaviEdit.

If any other version of the SQL Server is installed on the same computer, un-installation of this SQL Server is recommended. The NaviEdit database files used by NaviEdit are not removed when the SQL Server is uninstalled.

SQL Server 2016 supports Windows 8 and higher operating system versions.

For more details on requirements, consult the hardware and software requirements for installing SQL Server at: https://msdn.microsoft.com/en-us/library/ms143506(v=sql.130).aspx#top_principal

2 SQL Server 2016 Express installation

The SQL Server 2016 comes in several different editions:

- Microsoft SQL Server 2016 Express edition (free entry-level database, 10 GB in size)
- Microsoft SQL Server 2016 Enterprise edition (paid edition)

SQL Server 2016 Express SP1 was released March 2017.

However, NaviEdit recognizes no difference between the several editions. As such, in this document we only discuss installation of SQL Server 2016 Express.

2.1 Installation

Below, steps and accompanying screenshots from the installation process on Windows10 are shown:

1. Download the pre-installer (SQLServer2016-SSEI-Express.exe) at https://www.microsoft.com/en-us/download/details.aspx?id=54284

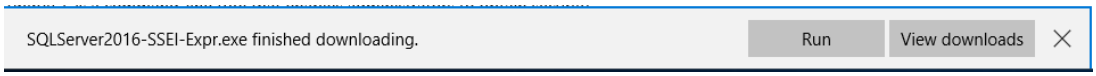


Figure 1 Installer package SQLServer2016-SSEI-Expr.exe downloaded

2. Run installer and click **Download Media**

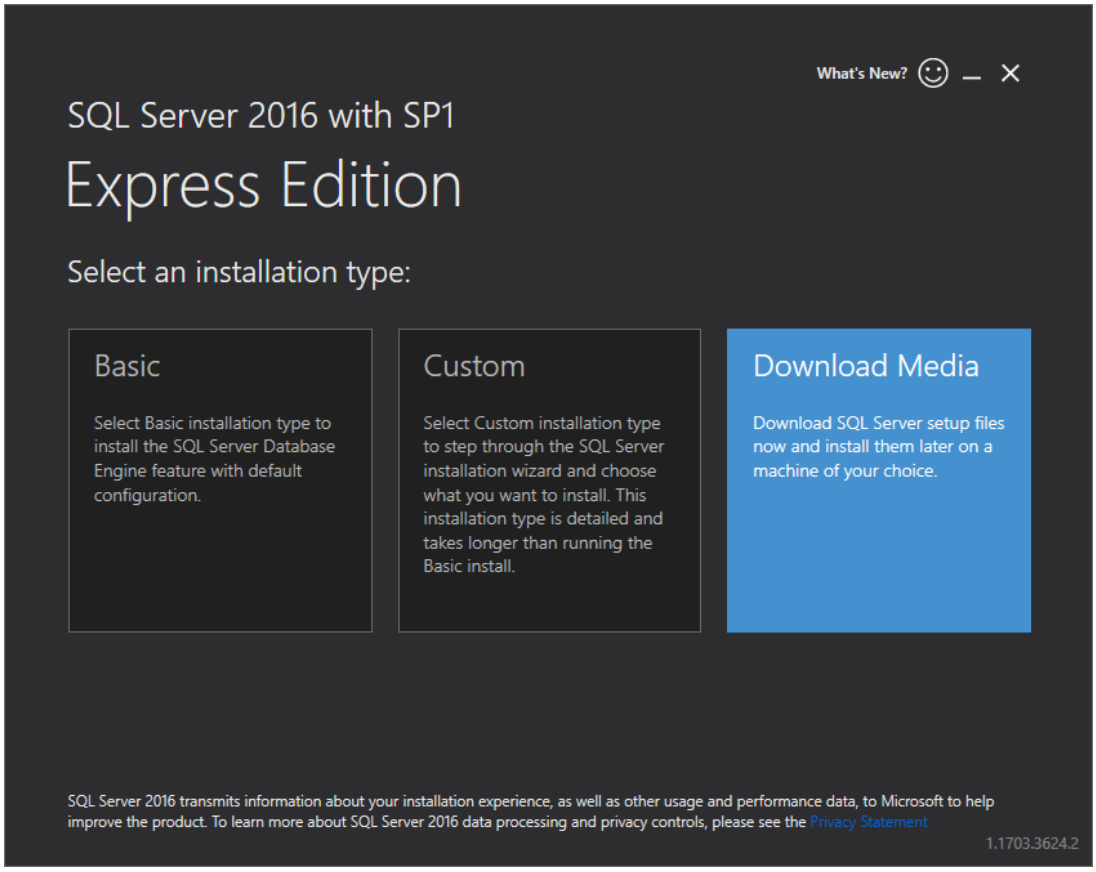


Figure 2 SQL Server 2016 with SP1 Express Edition / Download Media

3. The **Specify SQL Server installer download** dialogue box will appear. Select Express Core, as seen in the below figure
4. Click **Download** to download the package.

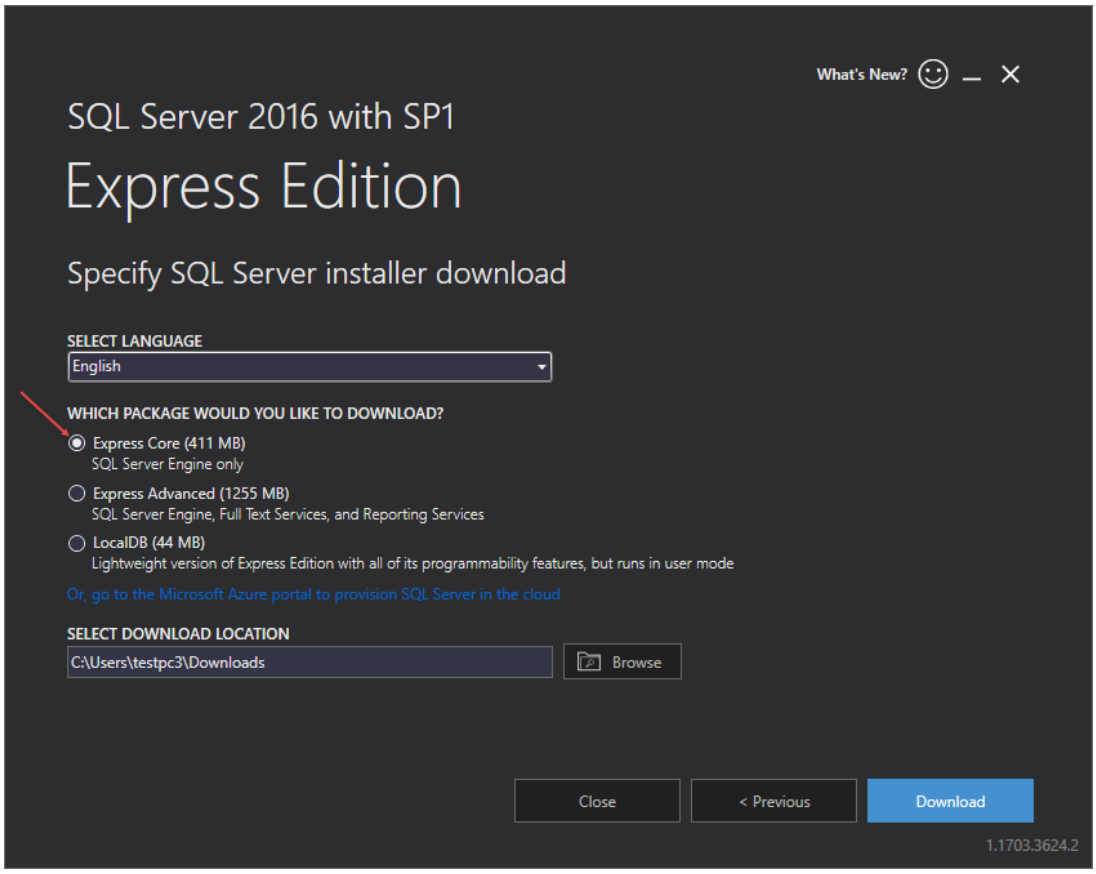


Figure 3 Download the Express Core installer

5. After you have been informed of a successful download, click **Open Folder** as seen in the figure below.

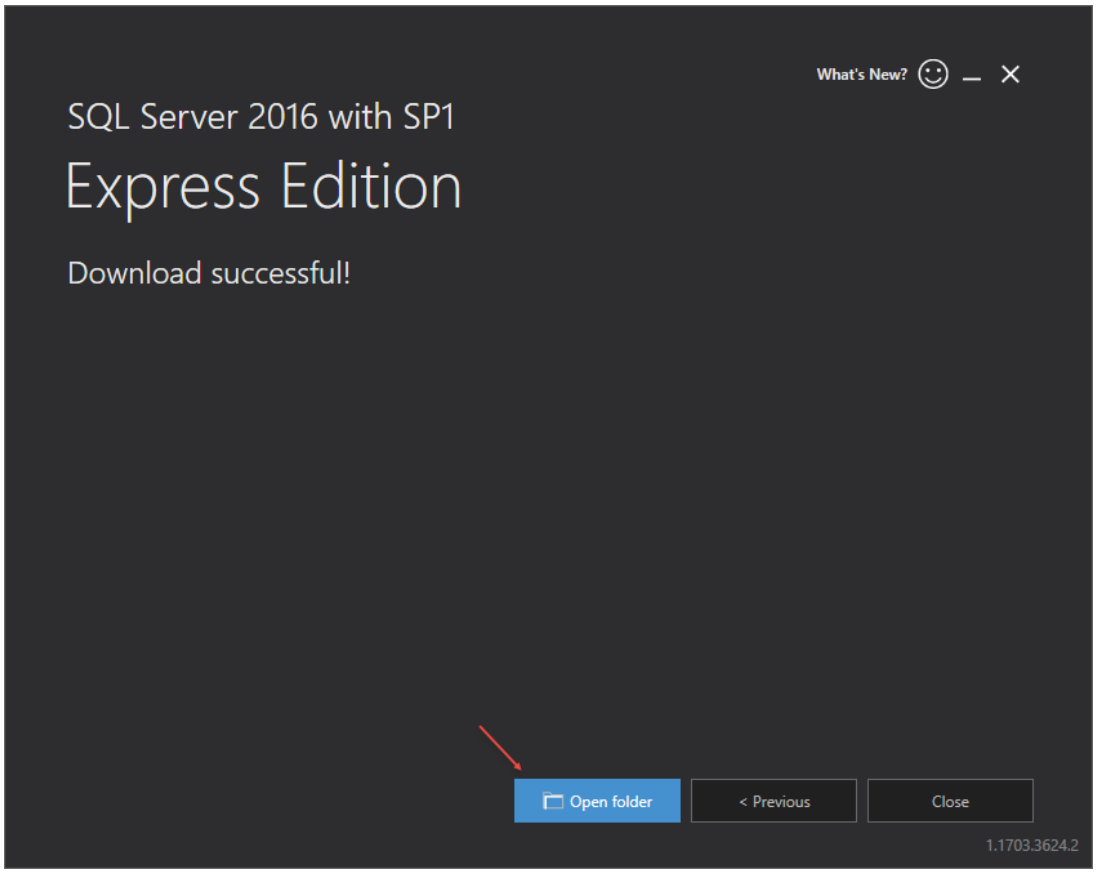


Figure 4 Express Core is donwloaded to the specified location.

6. From the download folder as seen in the figure below, right-click **SQLEXPR_x64_ENU.exe** and press **Run as administrator**.

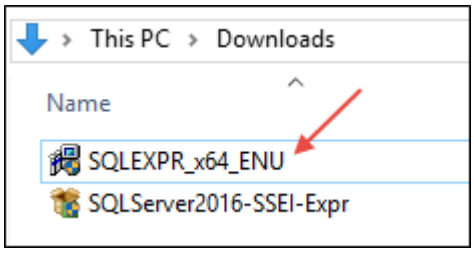


Figure 5 Download location showing SQL Server 2016 installer

7. Choose a directory for the files to be extracted to, as seen in the below figure.

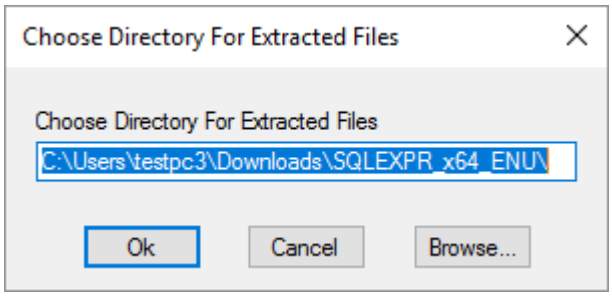


Figure 6 Choose extracting folder

8. Click **OK**
9. Files will be extracted; track progress in the Microsoft SQL as seen in the below figure (if you desire to cancel download for any reason, click **Cancel**)

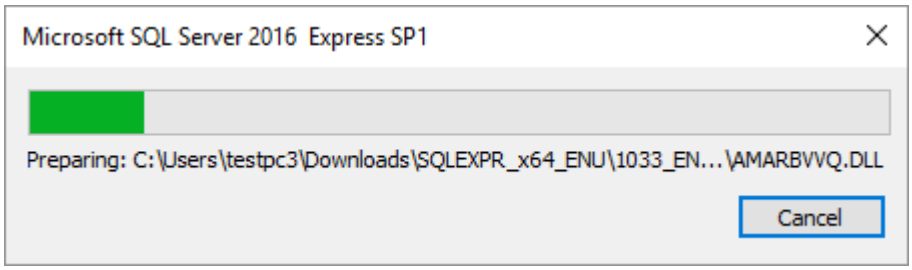


Figure 7 Track extraction progress

After the files are extracted, the **SQL Server Installation Center** opens as seen in the below figure.
Choose the topmost option, and Install as **New SQL Server stand-alone installation.**

1. Install as New SQL Server stand-alone installation.

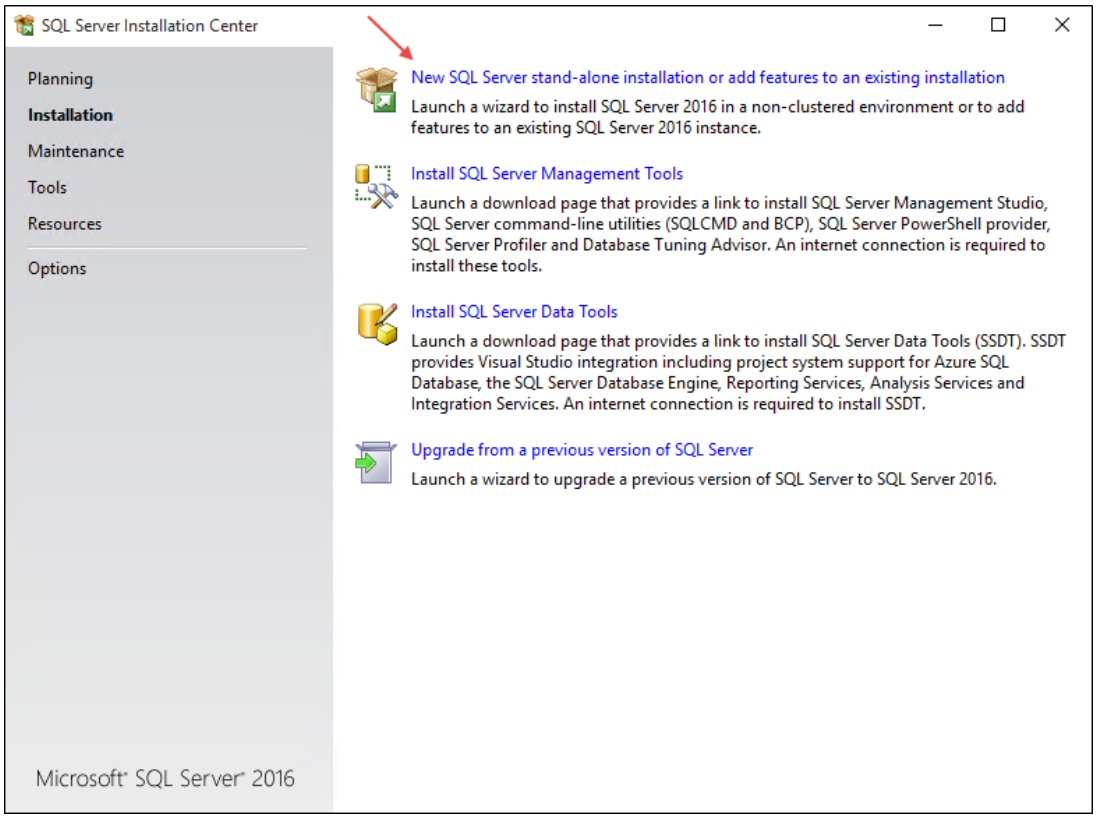


Figure 8 SQL Server Installation Center

2. Accept the Microsoft licence terms. The SQL Server 2016 Setup Feature Selection dialogue box appears.

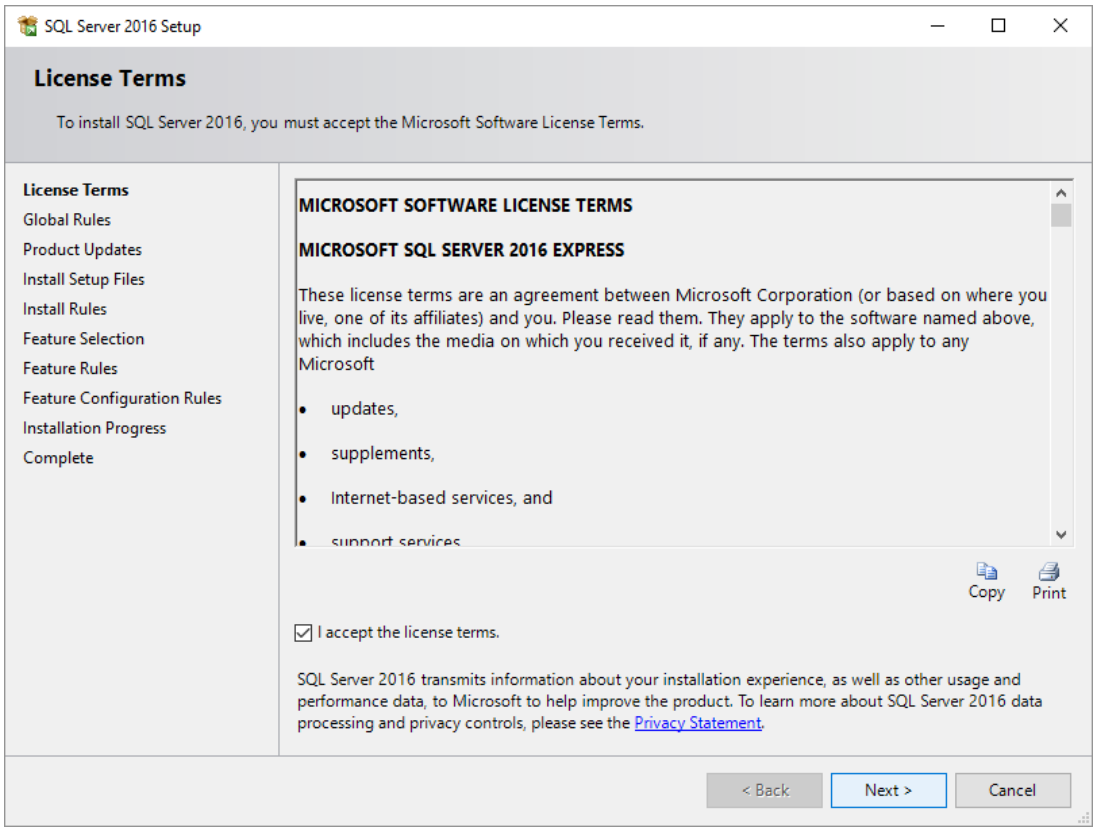


Figure 9 MS Licence Agreement

3. In **Feature selection**, select two features (as seen in the figure below): the instance feature **Database Engine Services** and the shared feature **SQL Client Tools Connectivity SDK.**

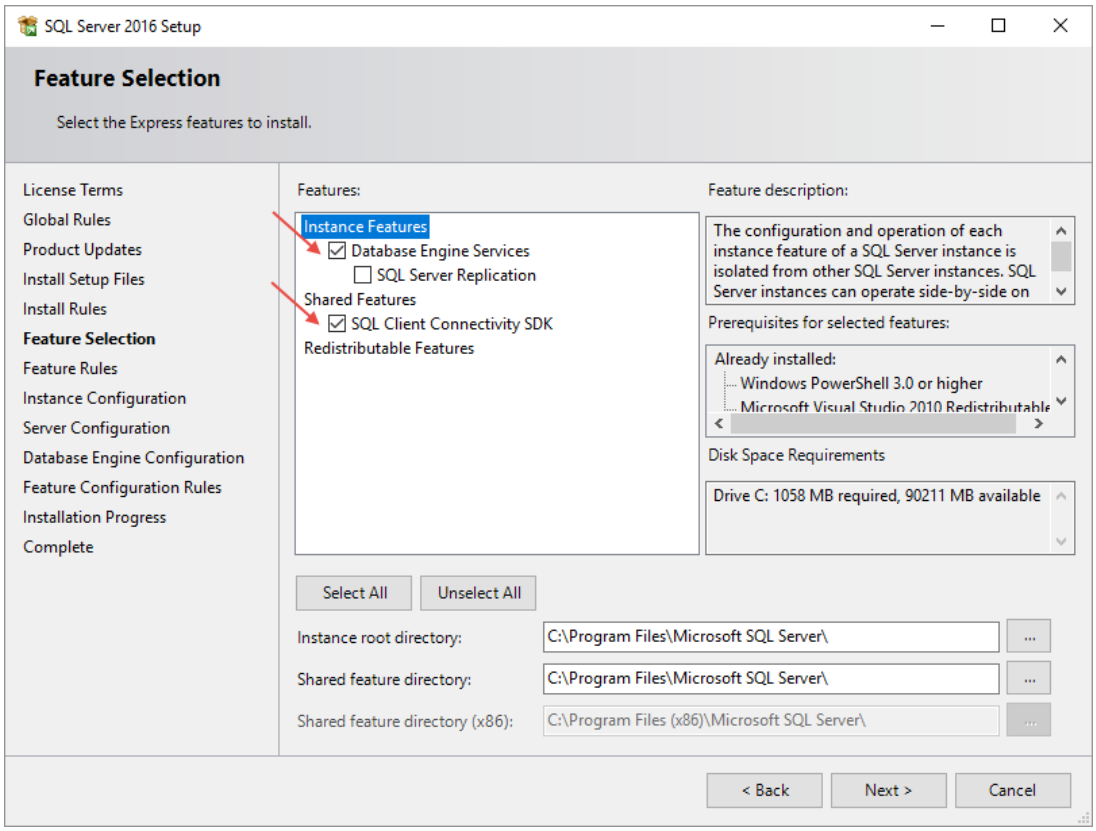


Figure 10 SQL Server 2016 Setup, submenu Feature Selection

4. Click **Next**
5. The installer moves automatically on to the tab **Instance Configuration**
6. In the submenu Instance Configuration, select **Default instance**. The instance ID will set to MSSQLSERVER.set the Named instance to Default instance.
   The Instance ID is set to MSSQLSERVER.

Note: If you cannot select the default instance, you have already installed a default instance of a SQL Server.

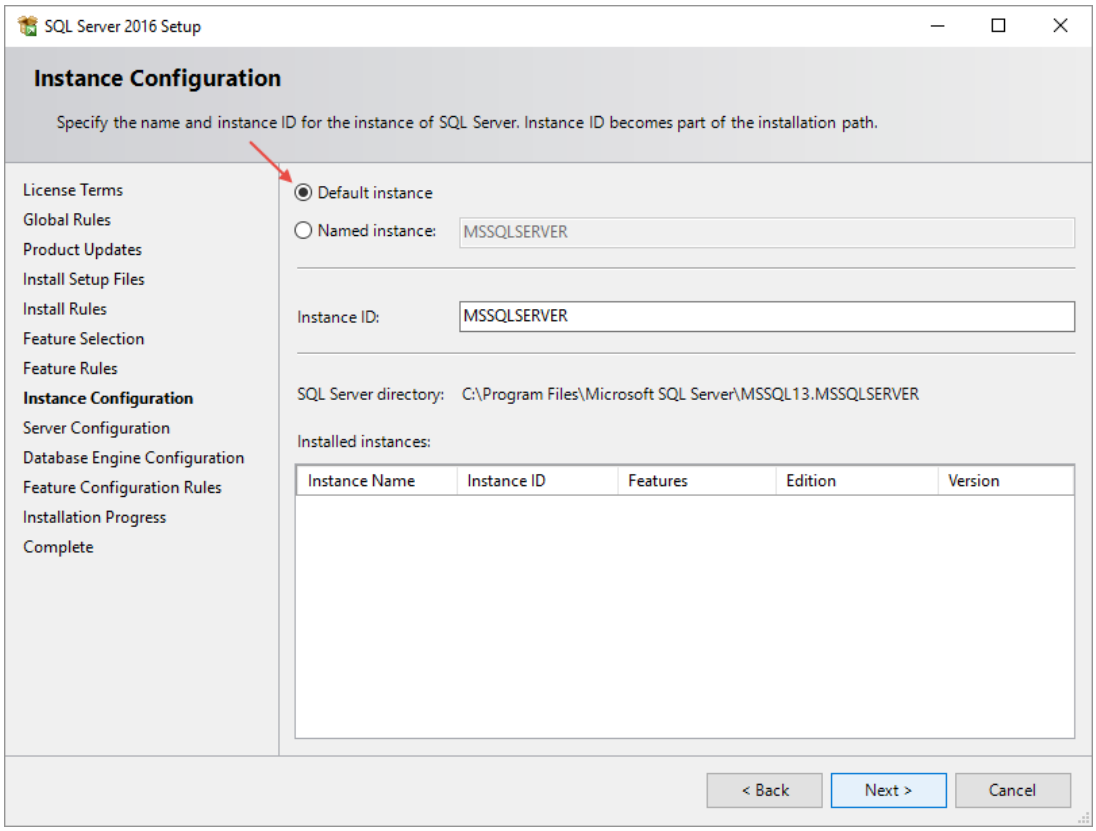


Figure 11 SQL Server 2016 Setup, instance Configuration

7. Click **Next** to access the Server Configuration tab.
8. Check that default settings are the following: the **NT Service\MSSQLSERVER** for SQL Server Database Engine is selected and Startup Type set to **Automatic**. The **SQL Server Brower** uses **NTAUTHORITY\LOCAL SERVICE** and Startup Type **Automatic** (as seen in the figure below).

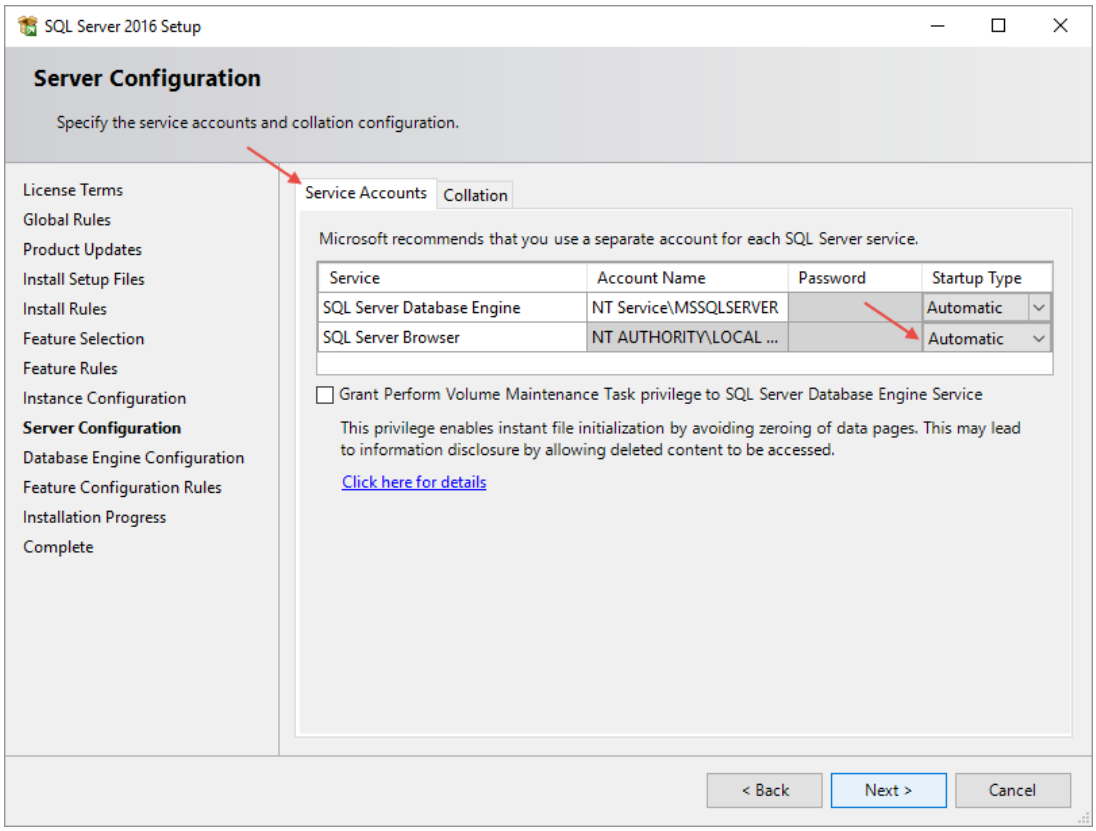


Figure 12 SQL Server 2016 Setup, Server Configuration tab

9. Click **Next** to access the **Database Engine Configuration** tab
10. In the Database Engine Configuration tab, select Windows authentication mode.
11. Click **Add Current User**, so your user name appears in the **Specify SQL Server administrators** box.
12. Click **Next** to continue the installation.
13.

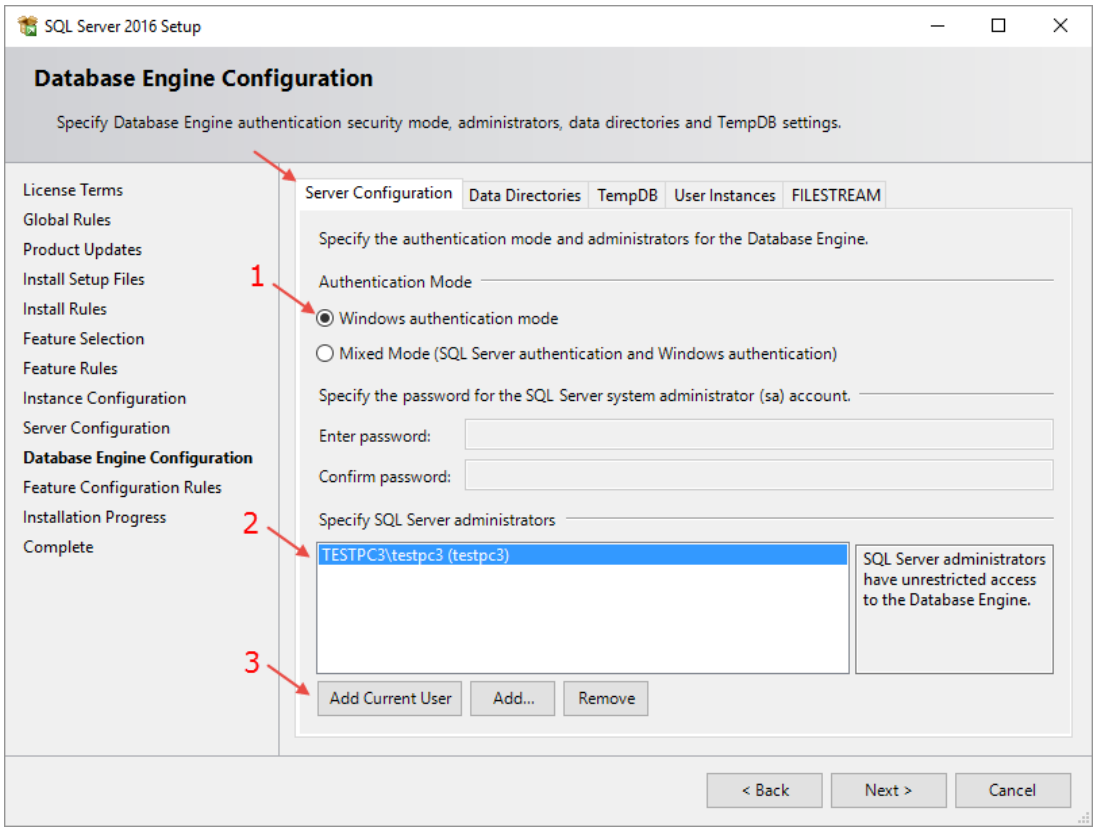


Figure 13 SQL Server 2016 Setup, Database Engine Configuration

When the installation is complete, the following dialogue box appears, as seen in the below figure.

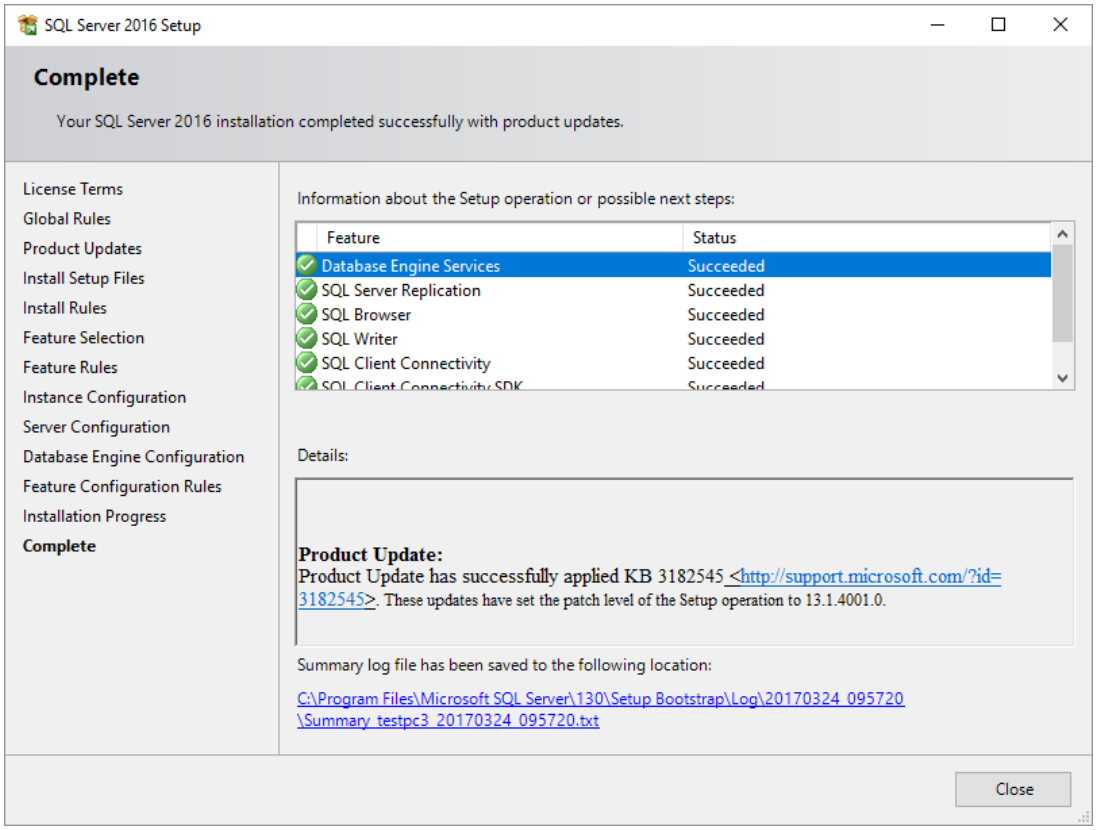


Figure 14 SQL Server 2016 Setup, Complete

3 Post installation steps

1. From your computer's Start menu, select SQL Server 2016 Configuration Manager, as seen in the figure below.

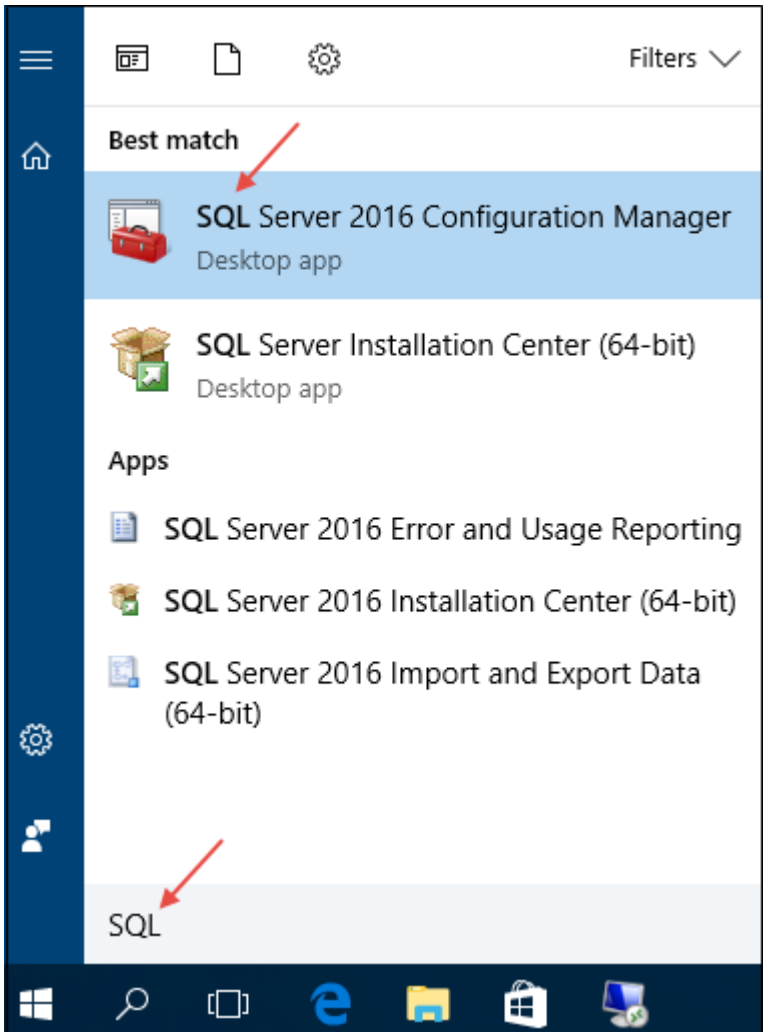


Figure 15 Windows Start menu with SQL Server 2016 Configuration Manager

2. The SQL Server Configuration Manager will open, from here, open the **SQL Server Network Configuration/Protocols for MSSQLSERVER** (as seen in the figure below).

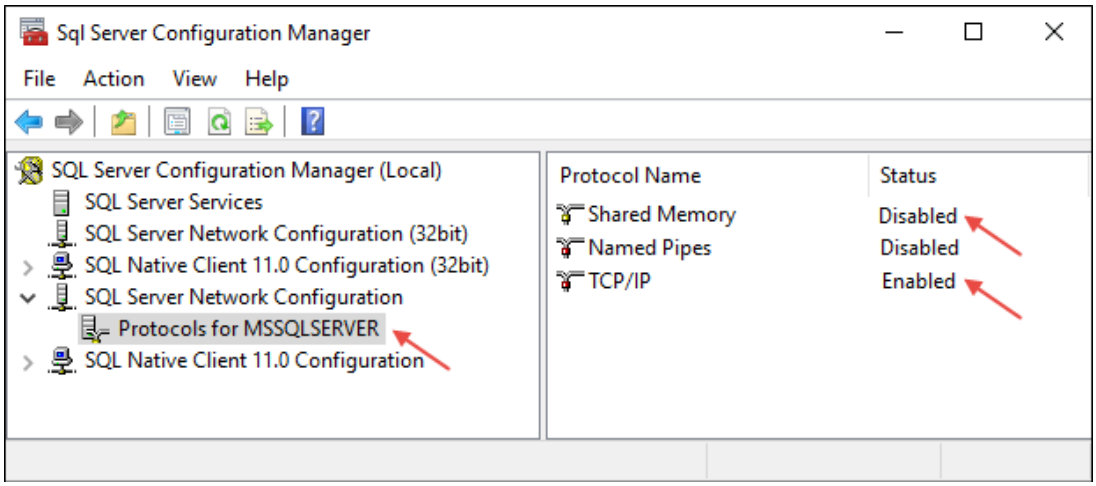


Figure 16 SQL Server Configuration Manager, submenu SQL Server Network Configuration

3. In the field on the right, right-click and set the **Shared Memory** protocol to **Disabled**.
4. Right-click and set the **TCP/IP** protocol to **Enabled**
5. In the menu on the left, select **SQL Native Client 11.0 Configuration** > **Client Protocols** as seen in the figure below.

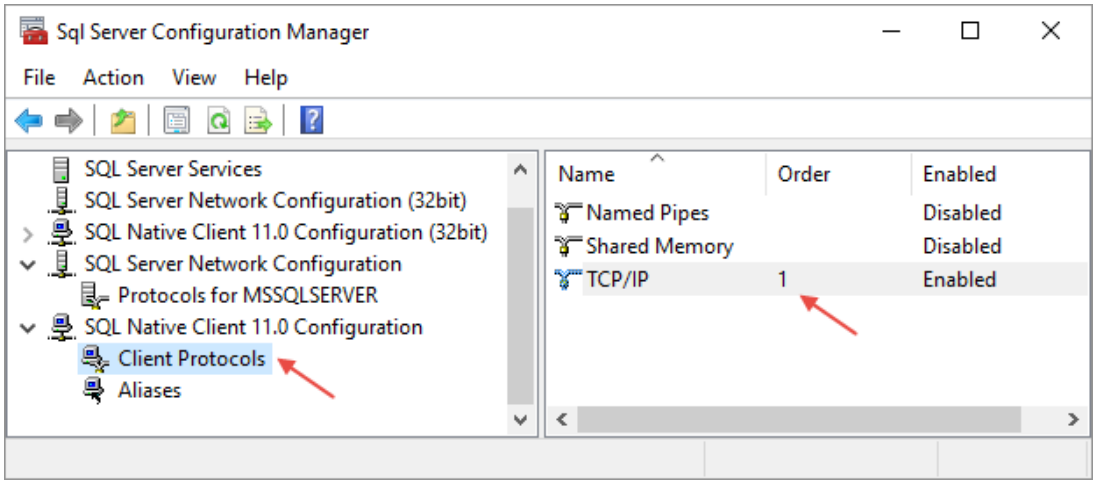


Figure 17 SQL Server Configuration Manager, submenu Client Protocols

6. In the field on the right, right-click and set **Shared Memory** to **Disabled**.
7. Right-click and set **TCP/IP** to **Enabled**.
8. Right-click and set **Named Pipes** to **Disabled**.
9. Restart the MSSQLSERVER entry in the Sql Server configuration Manager via its context menu. The purpose of the restart is to enable the changes made.

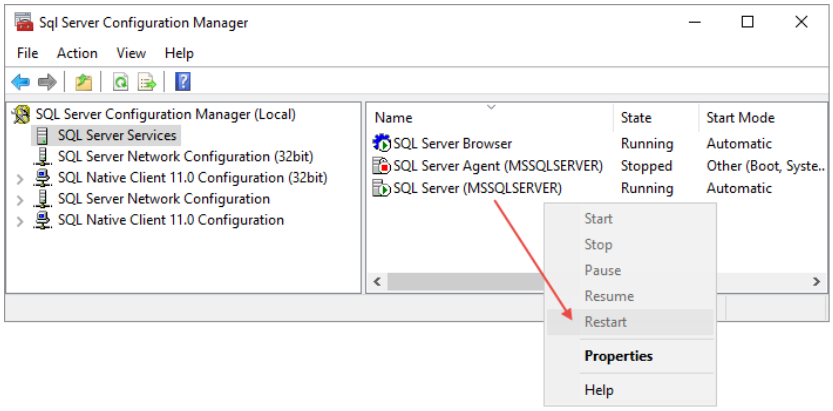


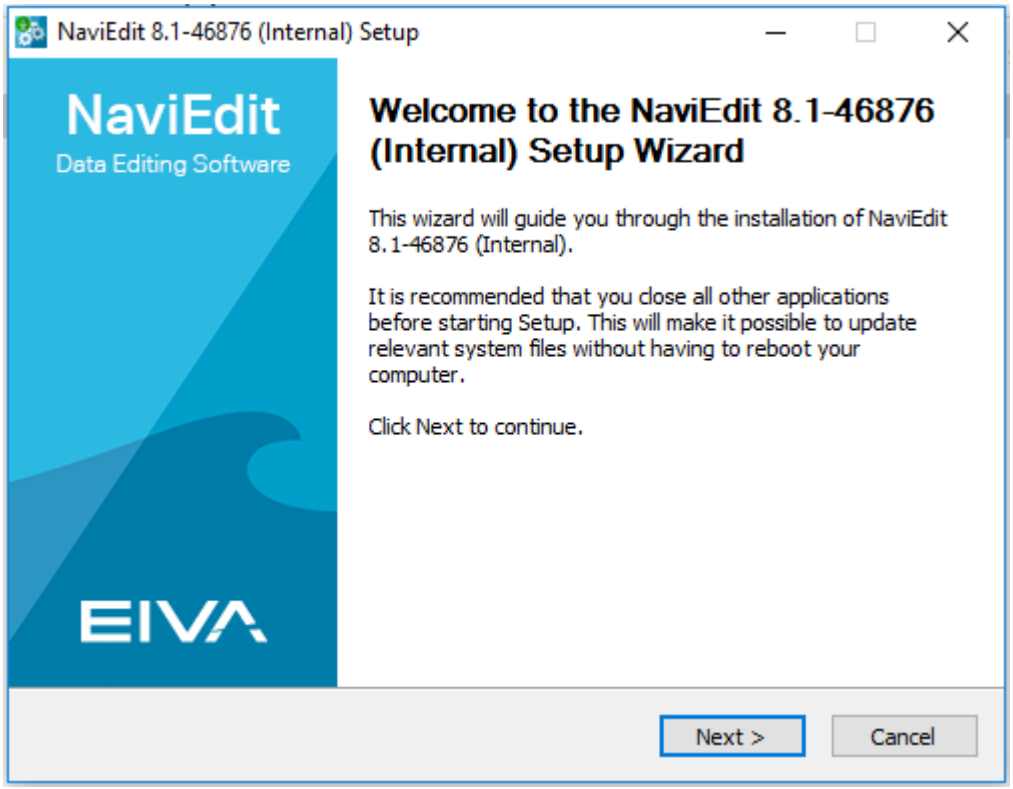
Figure 18 Restarting the MSSQLServer to apply changes

10. Re-open the SQL Server Configuration Manager as described in step 1 of this section.

11. When the SQL Server Configuration Manager has re-opened, select **SQL Server Services** as shown in the figure below.

4 Installing NaviEdit

Download and install NaviEdit.



Click **Next**

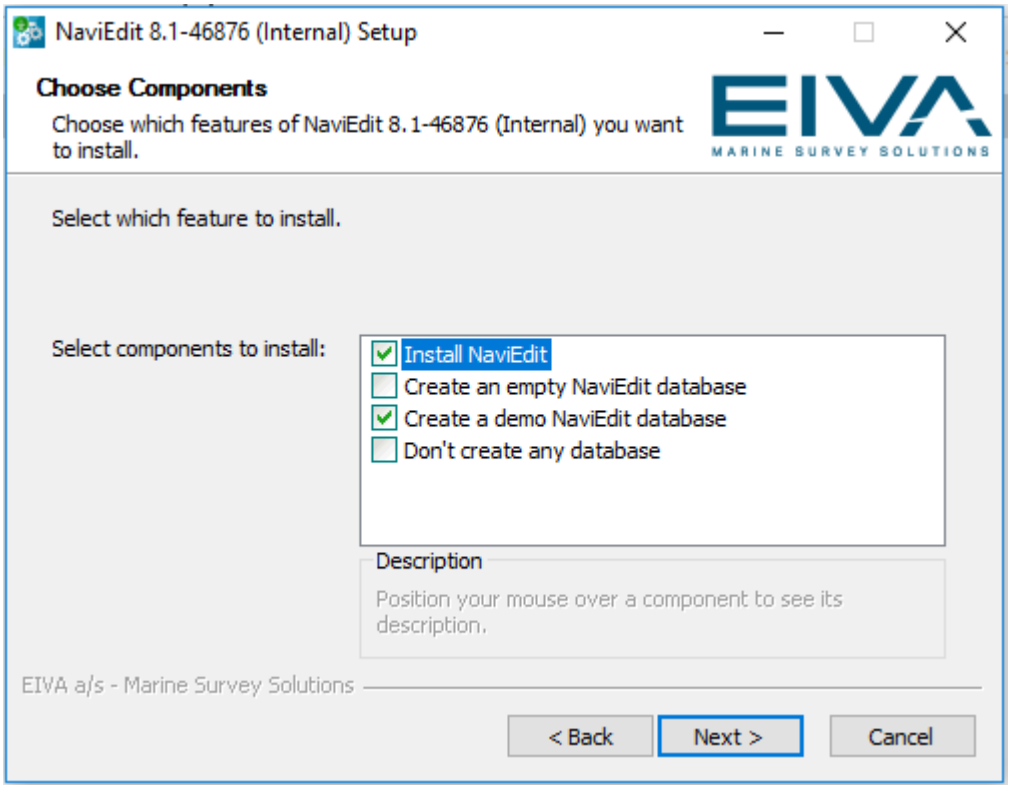
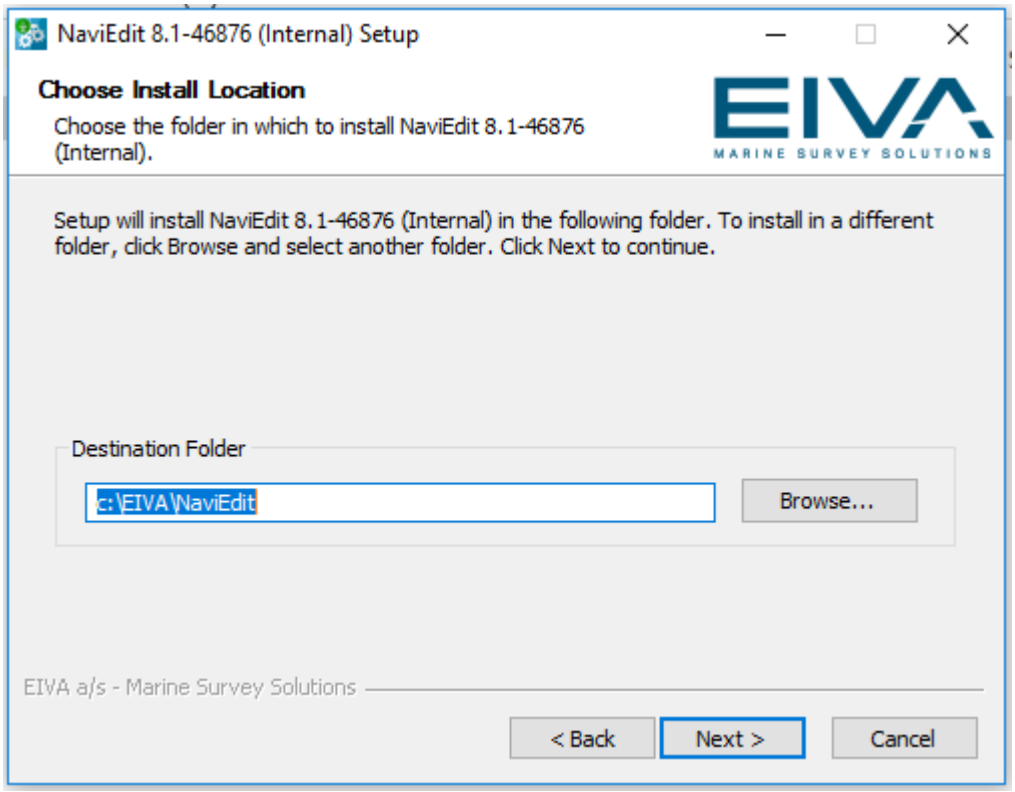
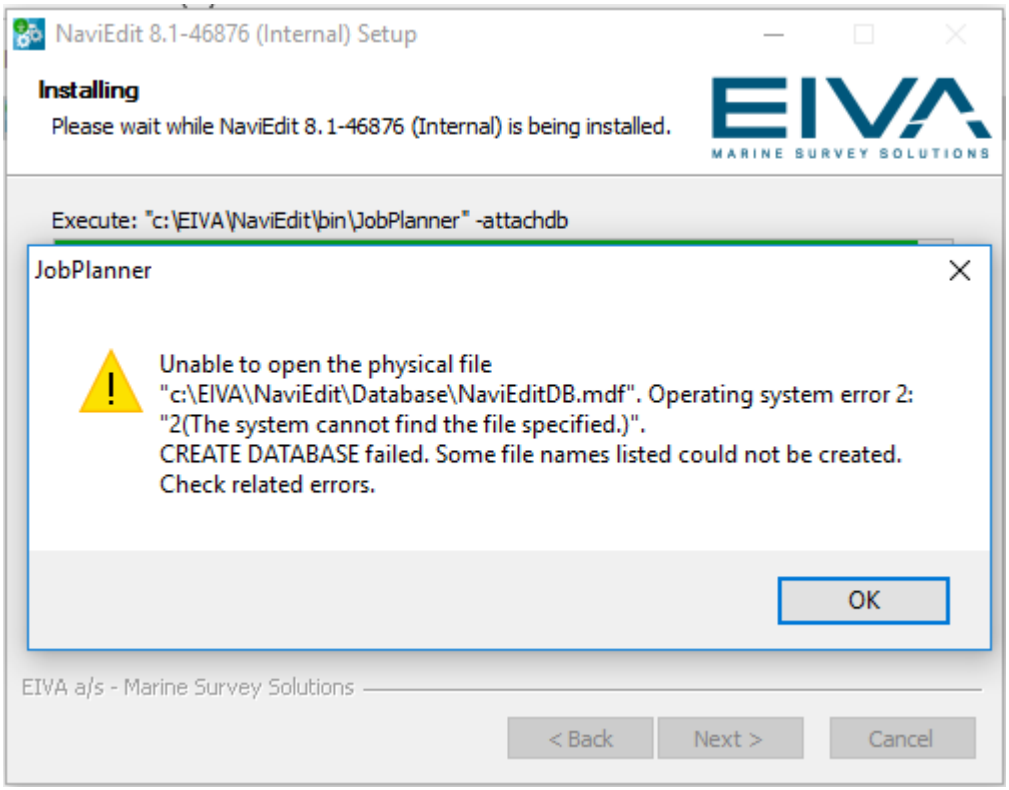


Figure 19 Install NaviEdit

Known issue: The user does not get the option to install the demo DB.


NaviEdit 8.1-46876 (Internal) Setup
Choose Install Location
Choose the folder in which to install NaviEdit 8.1-46876 (Internal).
EIVA
MARINE SURVEY SOLUTIONS
Setup will install NaviEdit 8.1-46876 (Internal) in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.
Destination Folder
c:\EIVA\NaviEdit
Browse...
EIVA a/s - Marine Survey Solutions
< Back
Next >
Cancel



Known issue: NaviEditDB.mdf is not part of the NaviEdit installer.

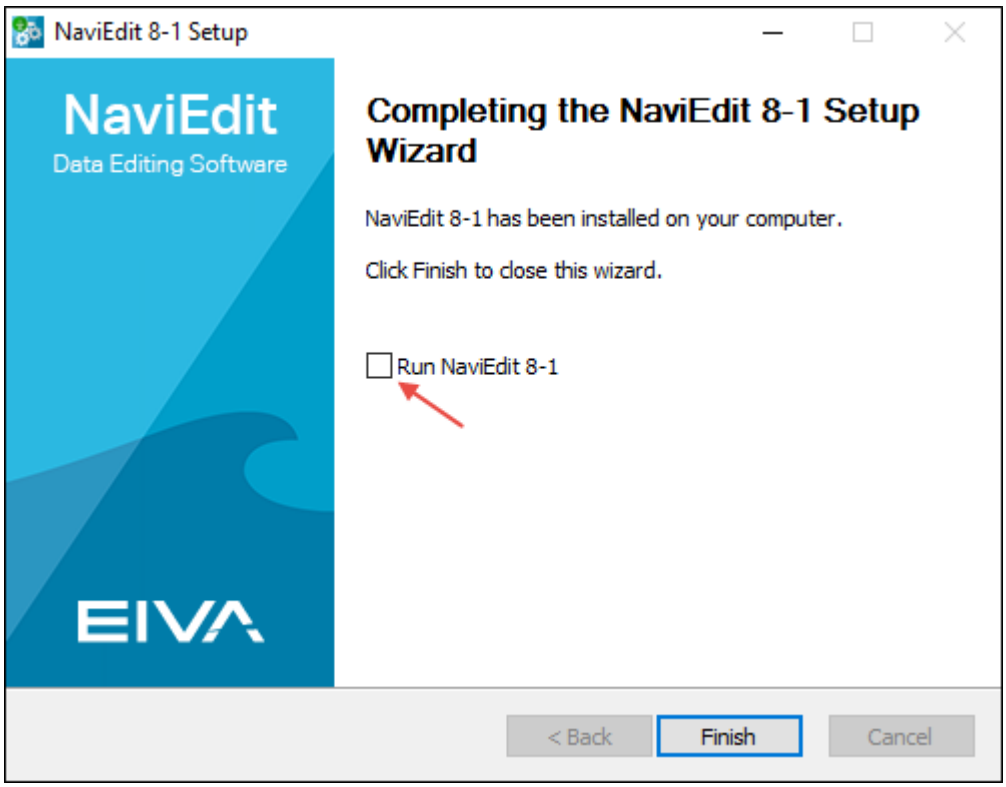


Figure 20 Untick the Run NaviEdit 8-1 because database needs to be connect first.

5 Start NaviEdit JobPlanner

Start NaviEdit Jobplanner from the Desktop shortcut. Start as administrator.

The following Connection failed messages will pop up:

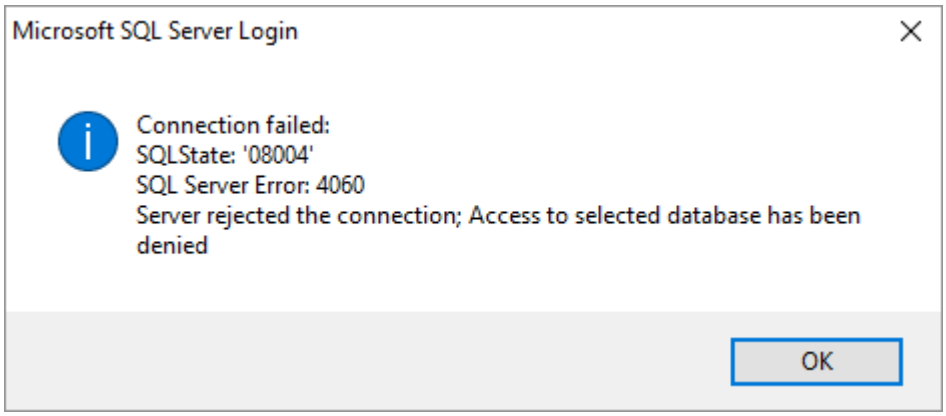


Figure 21 Connection failed message box, SQL State: “08004”

Click **OK** until the window below closes.

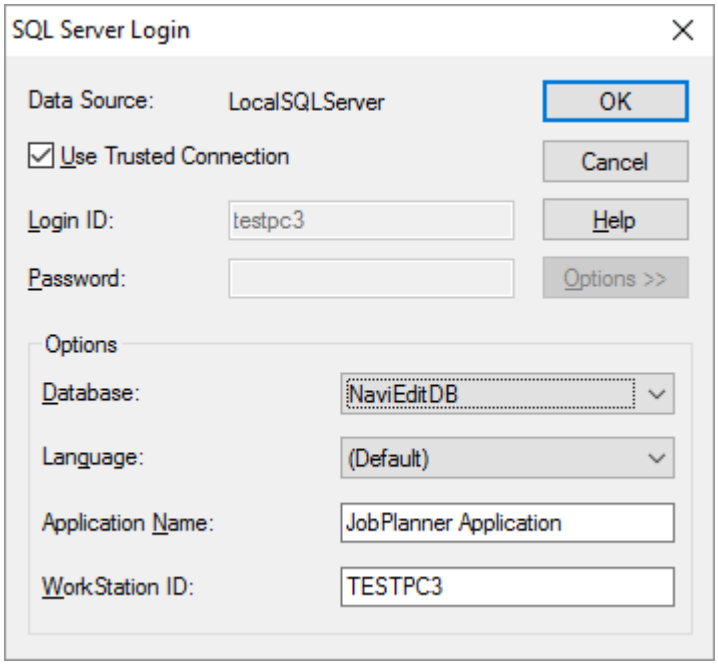


Figure 22 Error message

Manage Local NaviEdit Database opens.

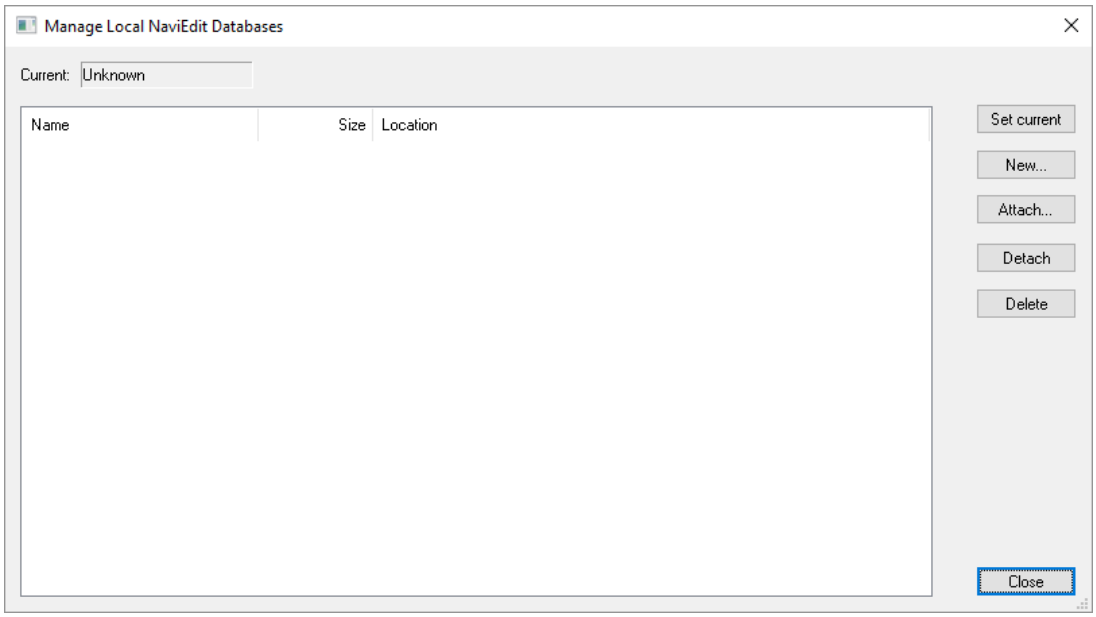


Figure 23 Manage Local NaviEdit Database dialogue

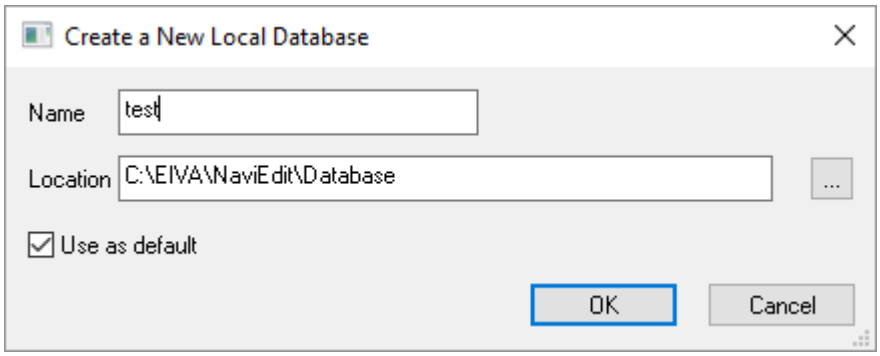


Figure 24 Create a new test database

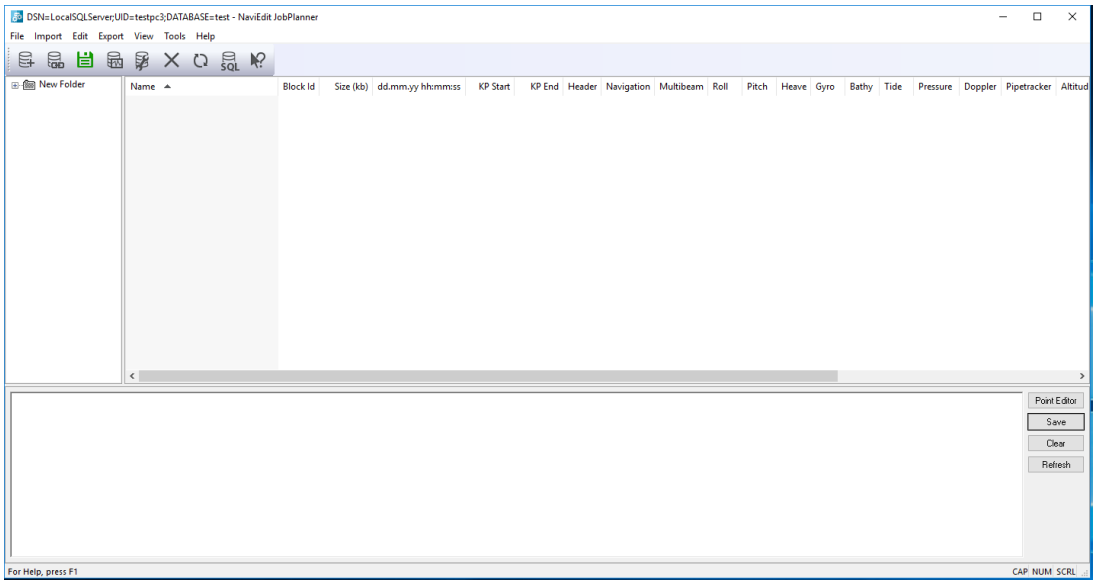


Figure 25 NaviEdit Jobplanner opens with test database

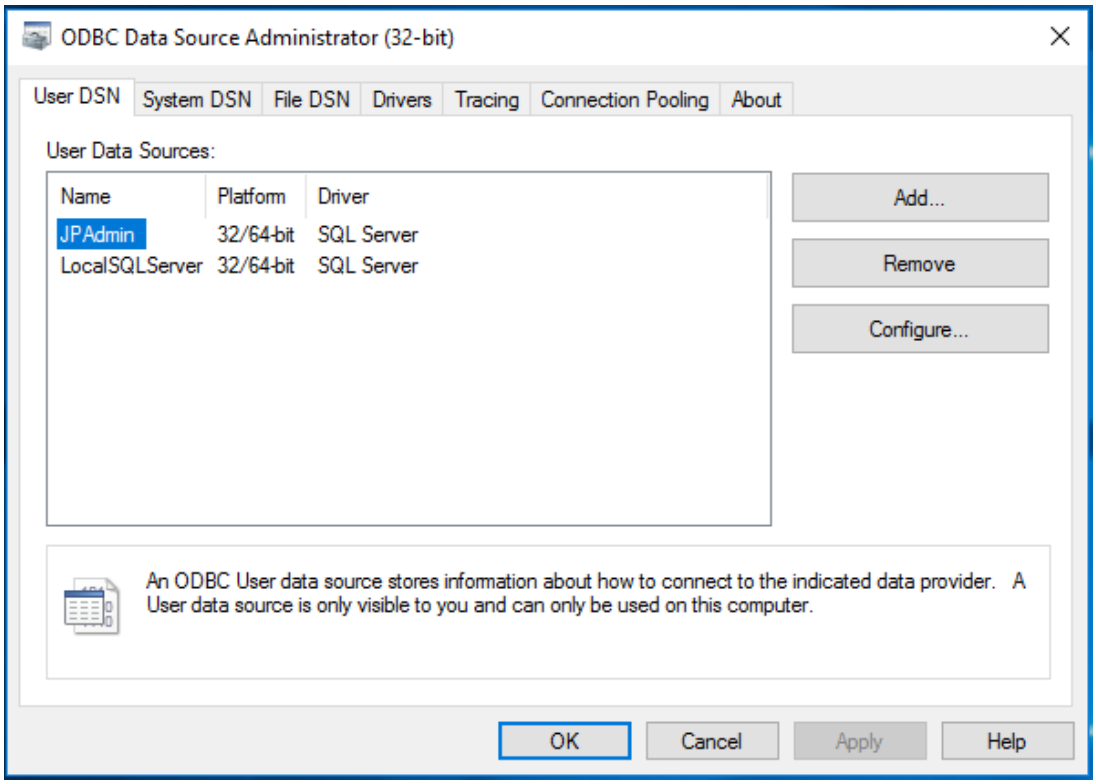


Figure 26 ODBC connection with LocalSQLServer and JPAdmin.

Known issue: JPAdmin ODBC connection is not automatically created by the NaviEdit installer. The user needs to create it manually.

Check the ODBC connection after the NaviEdit installaton.
Both **LocalSQLServer** and **JPAdmin** should be there. If this is not the case, manually create the JPAdmin ODBC connection.
Test by creating a new database.

We recommend to also automatically start SQL server browser, then it is easier to find databases when creating/testing the ODBC connection.