impro technologies®
ACCESS CONTROL

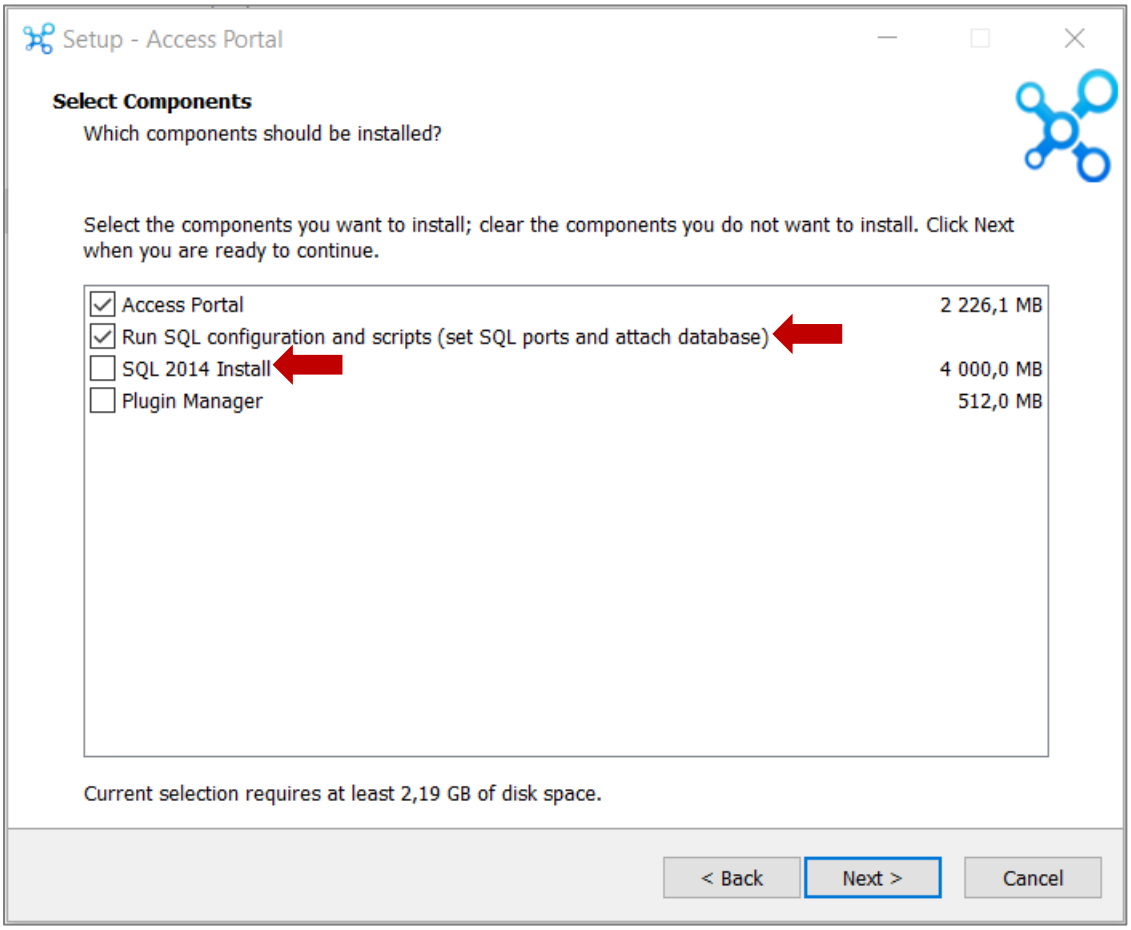
MS SQL Server

Manual installation

MSQL Configuration 2
SQL Required Tools 3
Installing SQL 4
SQL Configuration Manager 24

MSQL Configuration

During a new Access Portal installation, SQL Server and SQL management components will be installed automatically when you select the component **SQL 2014 Install**. When you select the component **Run SQL configuration and scripts** it will set SQL ports, create the sysdba user and attach the Portal database.



NOTE

Microsoft .NET 3.5 SP1 is a pre-requisite for SQL Server 2014 to install successfully.

Microsoft SQL Server 2014 does not install or enable Windows PowerShell 2.0; however, **Windows PowerShell 2.0** is an installation prerequisite for Database Engine components and SQL Server Management Studio.

Microsoft .NET 4.0 is a requirement for SQL Server 2014. SQL Server installs .NET 4.0 during the feature installation step.

For best results, your server computer should have a clean operating system and up-to-date service packs prior to installation.

However, in cases where SQL needs to be installed manually, here is a quick guide on the required steps.

SQL Required Tools

To configure SQL connection and user settings you require the following tools.

These tools can be installed using the SQL installation file found in the dependency folder in the Portal ISO.

Management Studio

- Database management
- Configuring the SYSDBA and other users
- Making backups of your database

SQL Server Configuration Manager

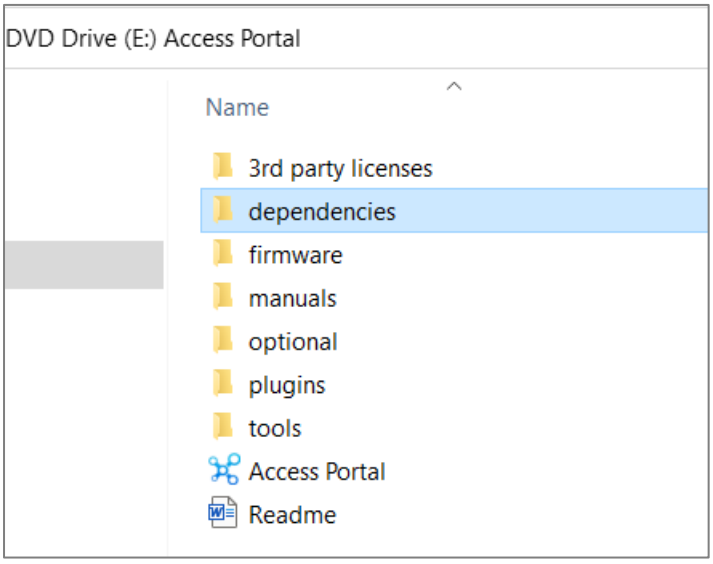
- Alter the SQL connection settings.
- Alter the state of the SQL service.

Mount the "*Access Portal.iso*" file as a virtual drive in Windows.

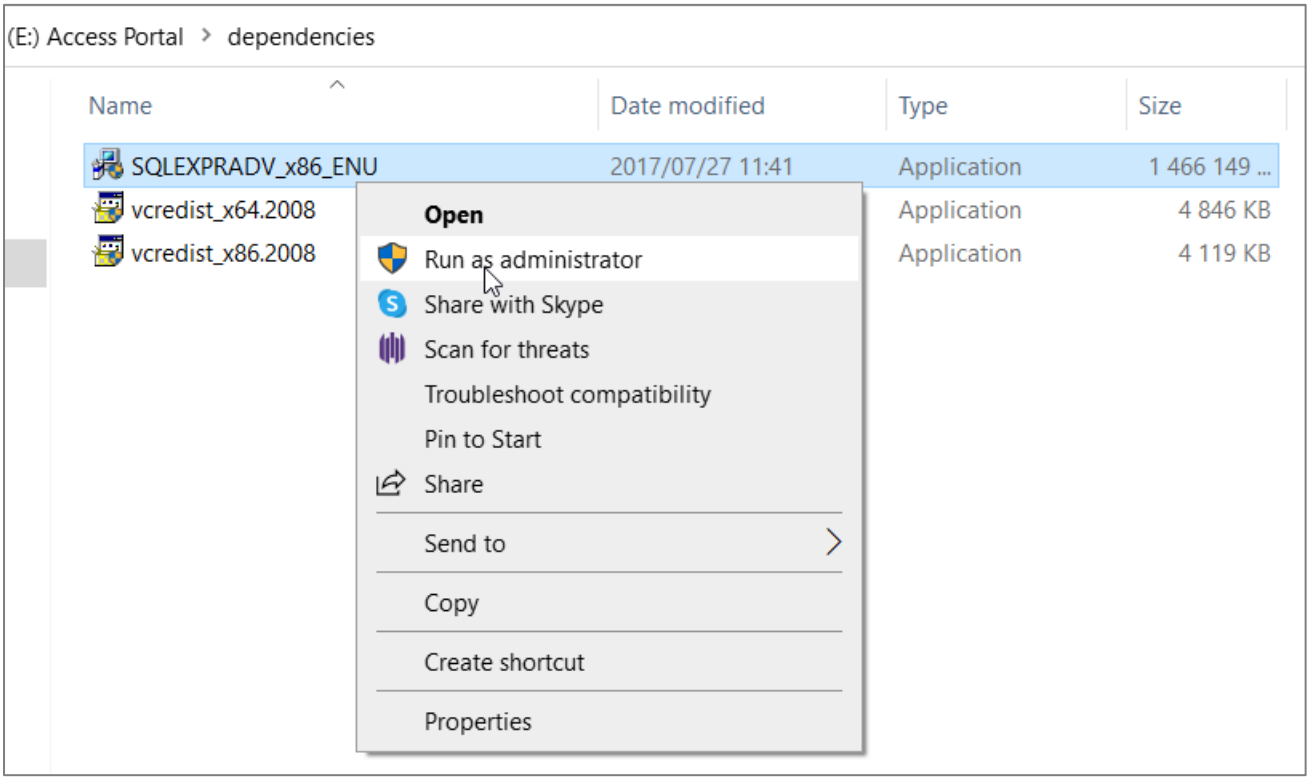
NOTE

If using Windows 7, this option is not available. Use an archiving tool such as 7-Zip to extract the contents of the ISO into a folder, then navigate to the folder.

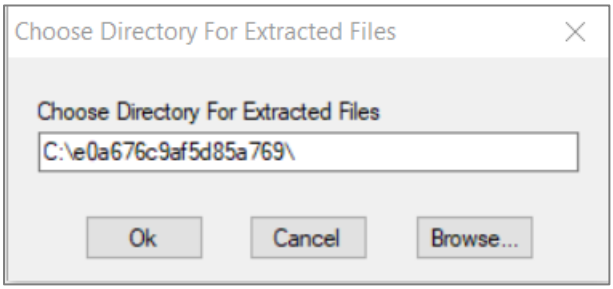
Open the **dependencies** folder from the iso.



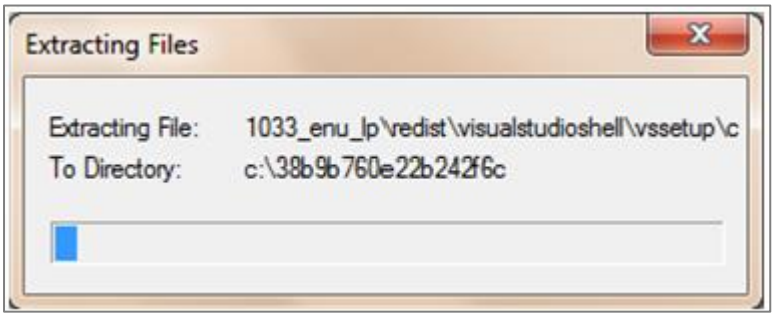
Run **SQLEXPADV_86_ENU** as administrator



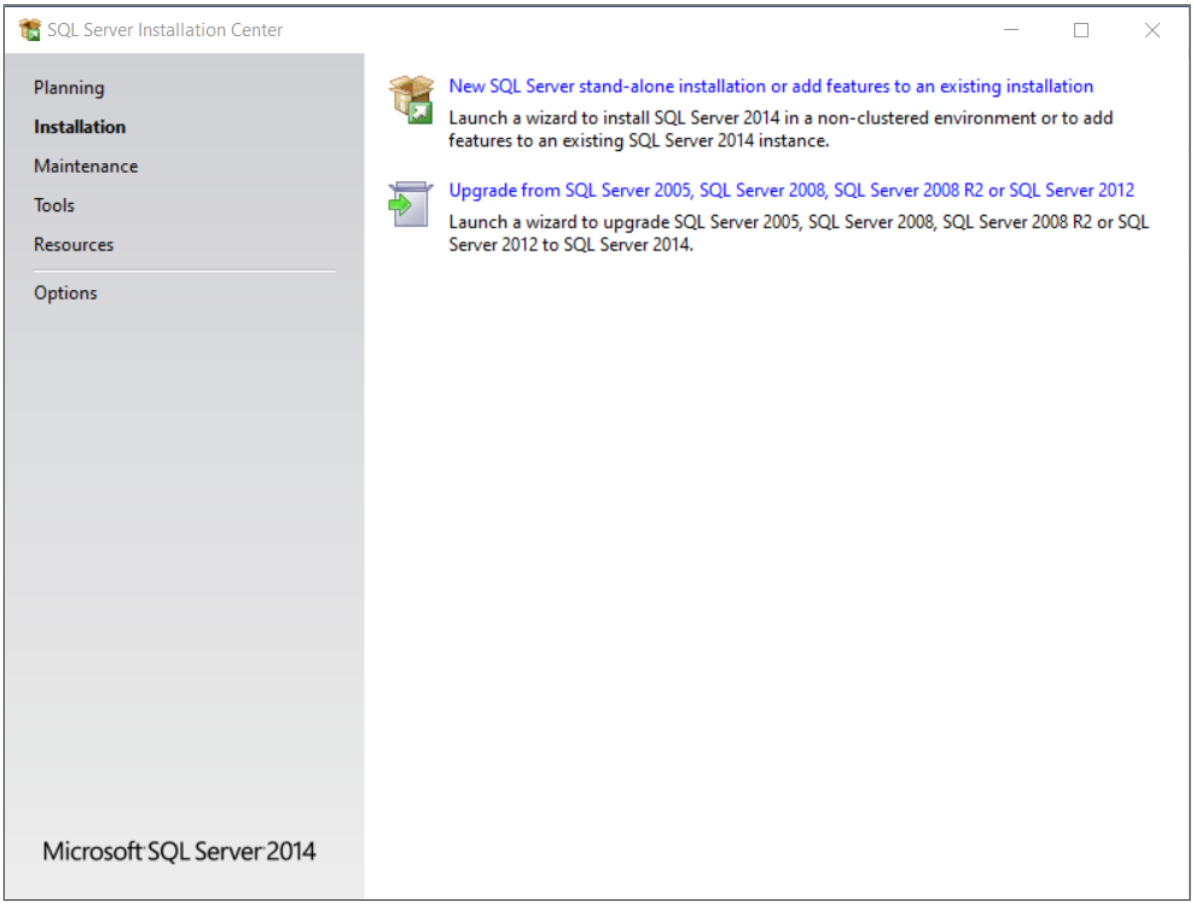
Click **Ok**



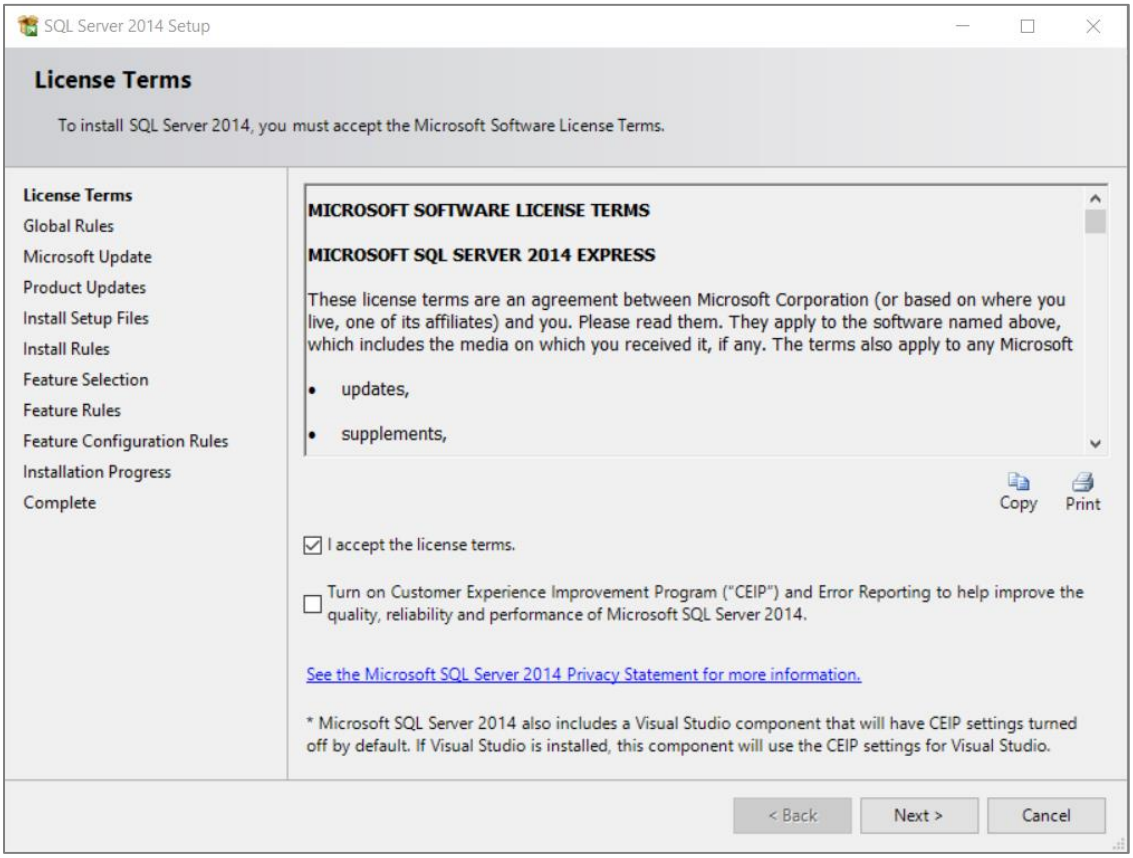
It will extract the files to prepare for the installation to a temporary location.



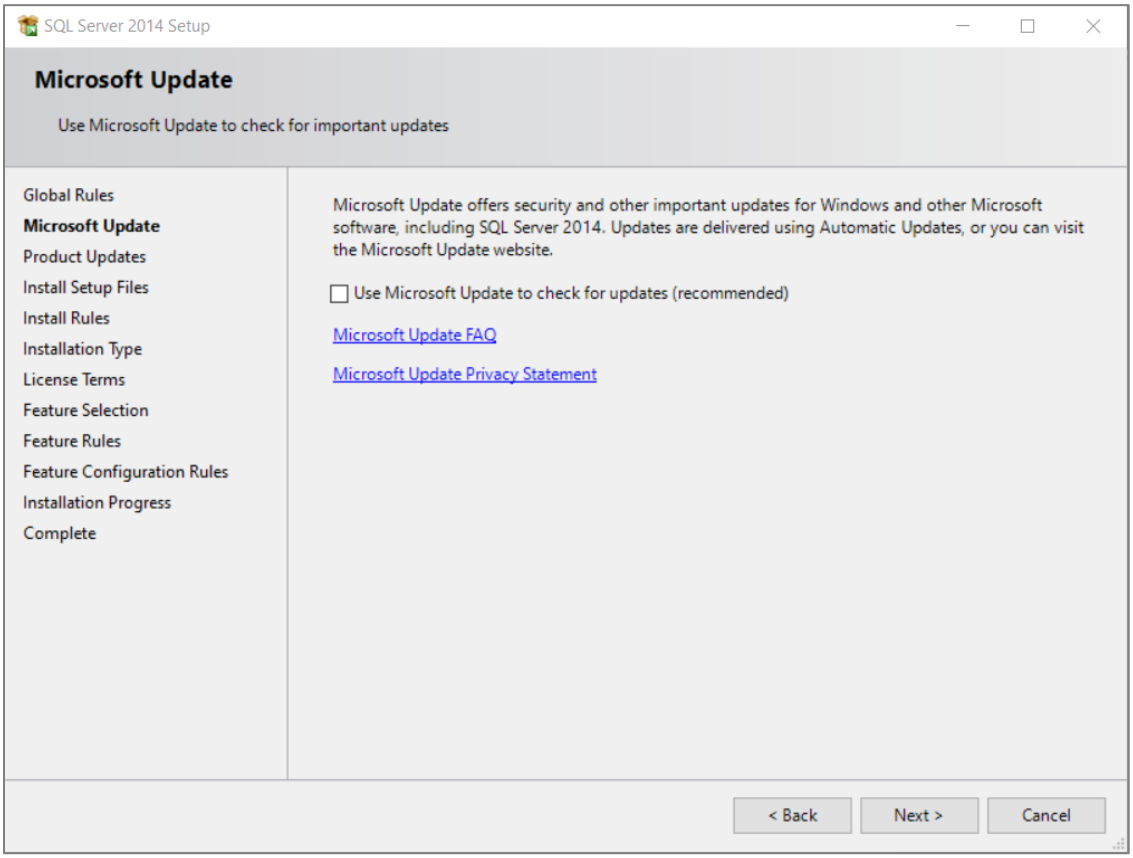
Select **New SQL Server stand-alone installation or add features to an existing installation**



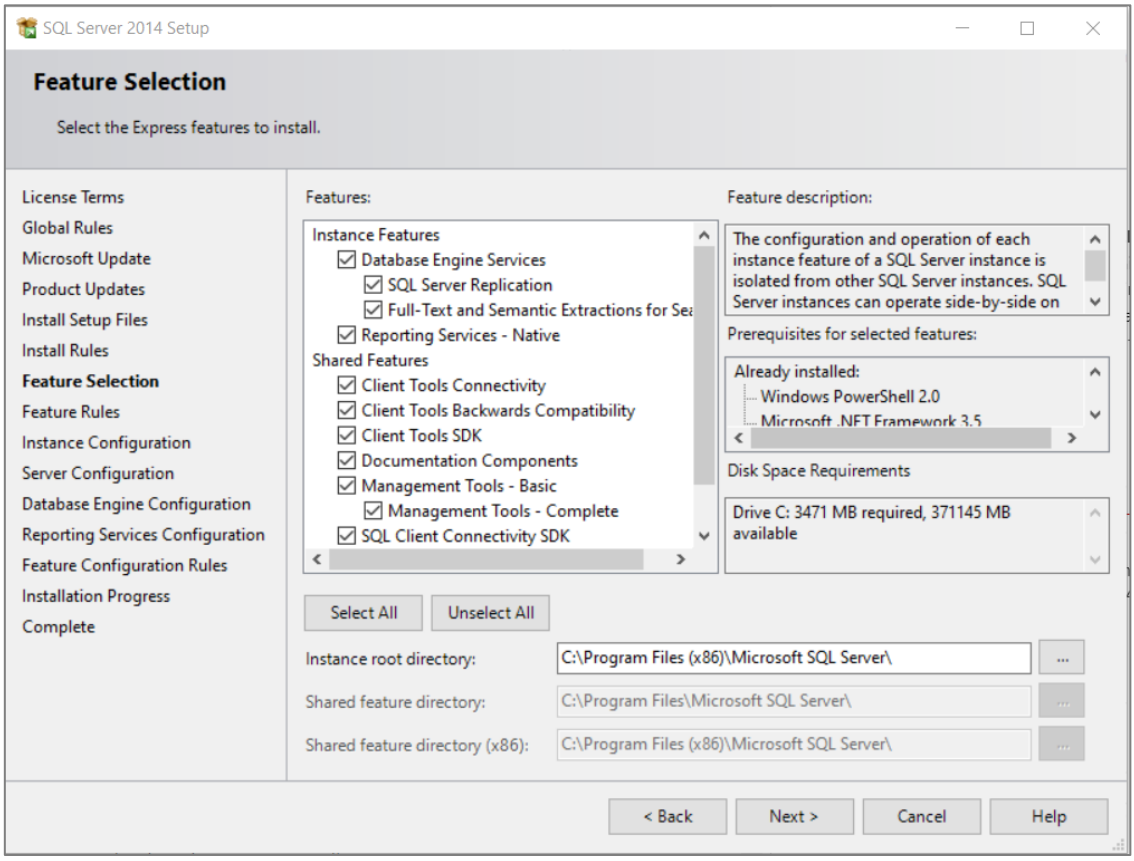
Select **I accept the license terms** and click **Next**



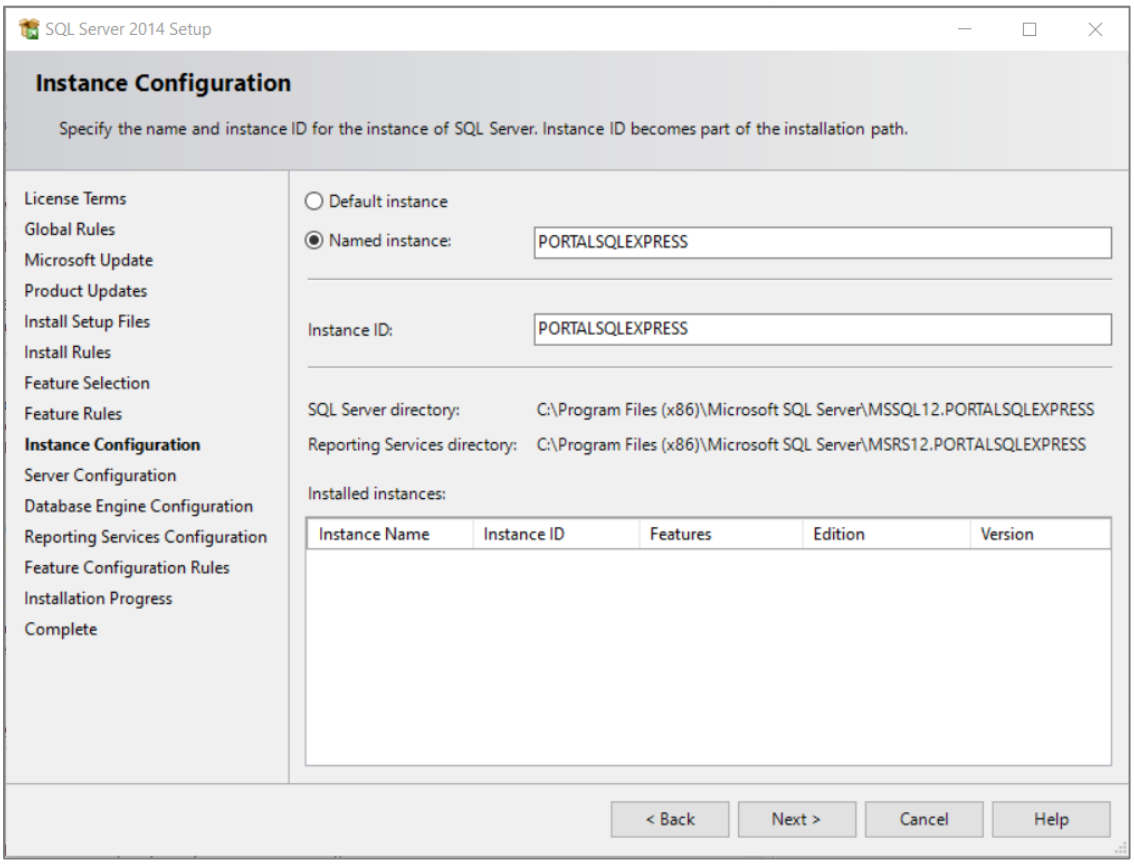
Click **Next**



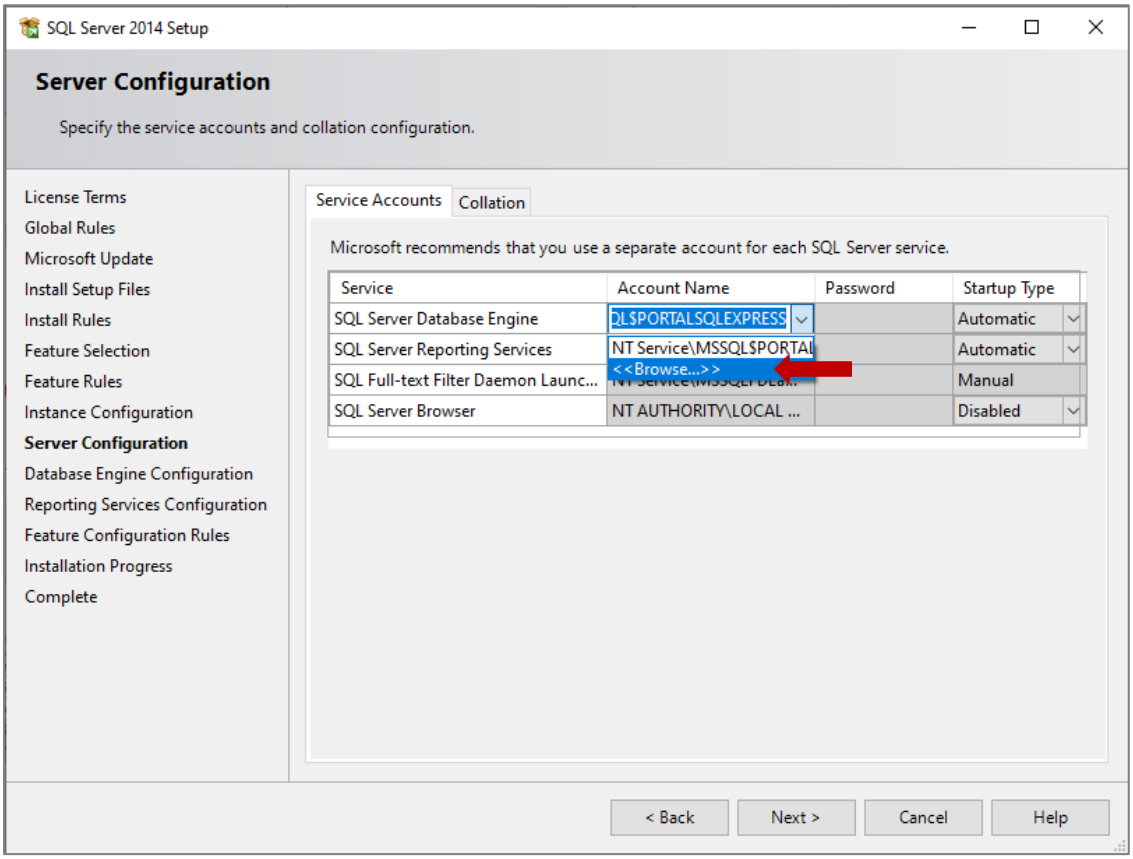
Leave the defaults and click **Next**



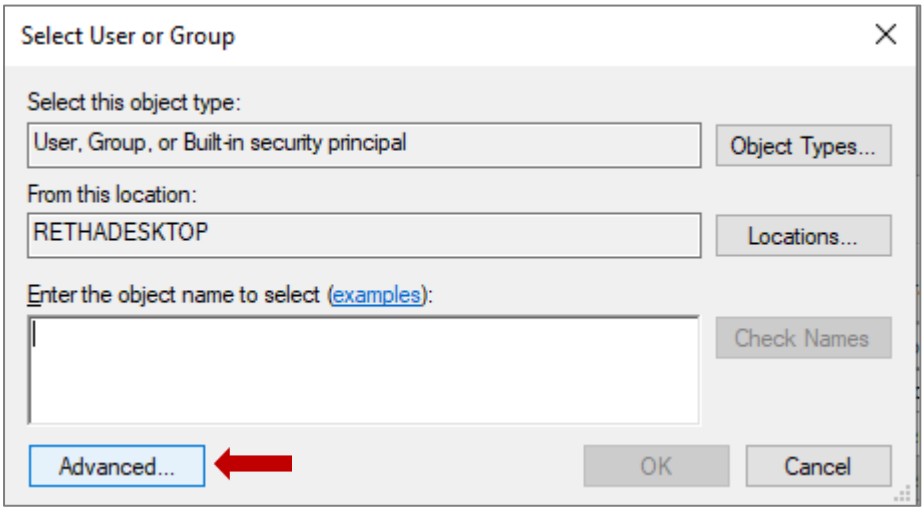
Preferably change the **Named instance** to **PORTALSQLEXPRESS** (this is the default we use) and click **Next**



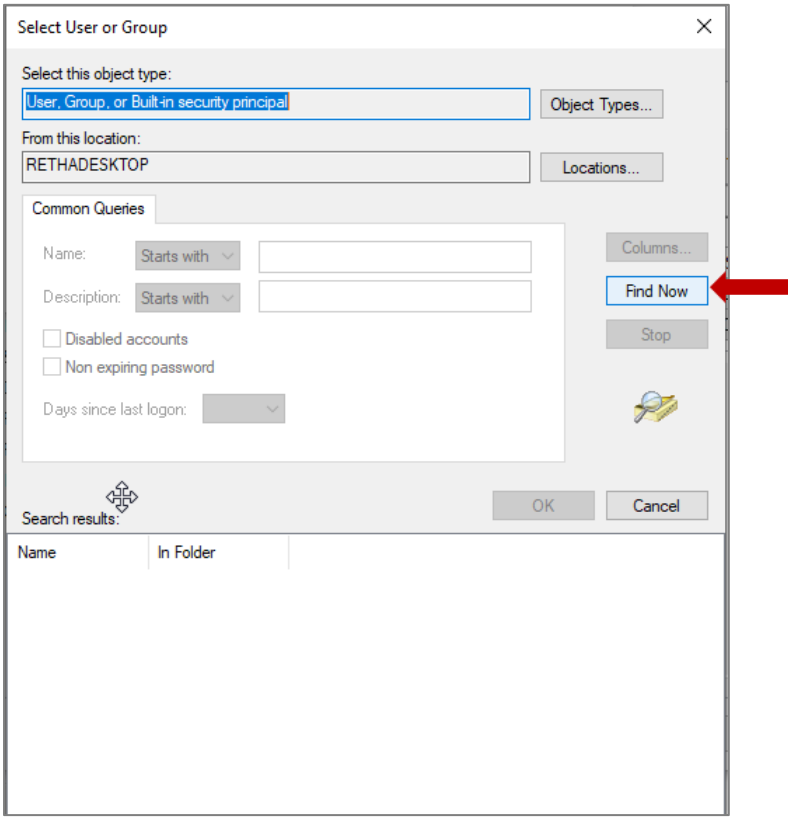
Drop down in the **Account Name** field for the **SQL Server Database Engine** Service and click **<<Browse…>**



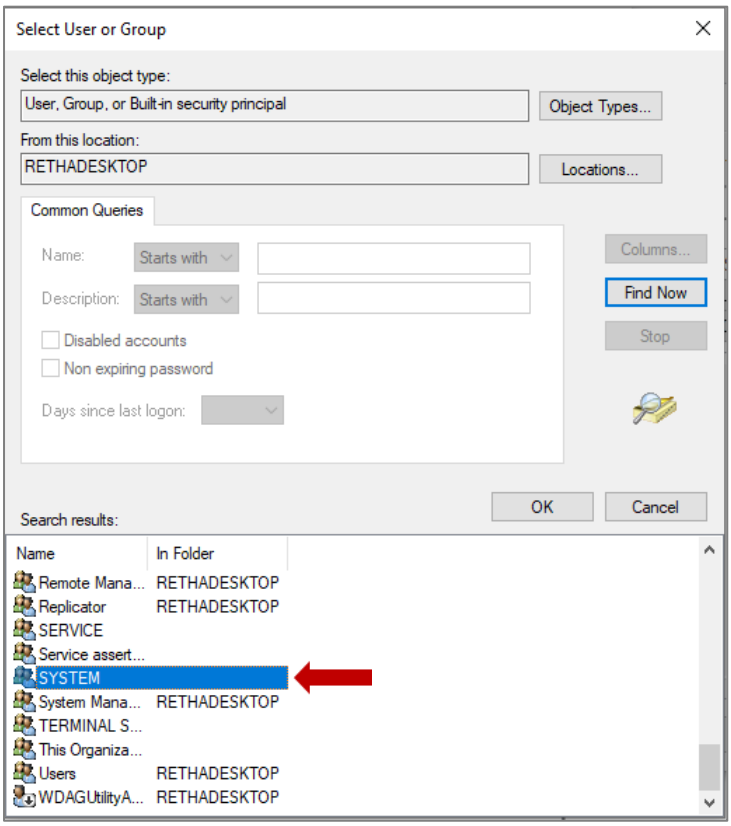
Click **Advanced**



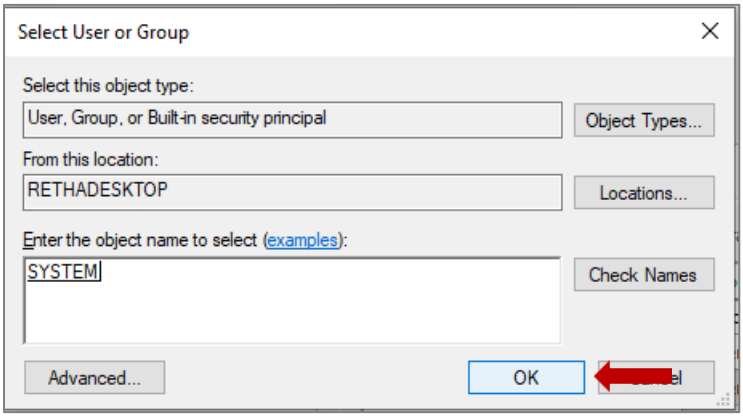
Click **Find Now**



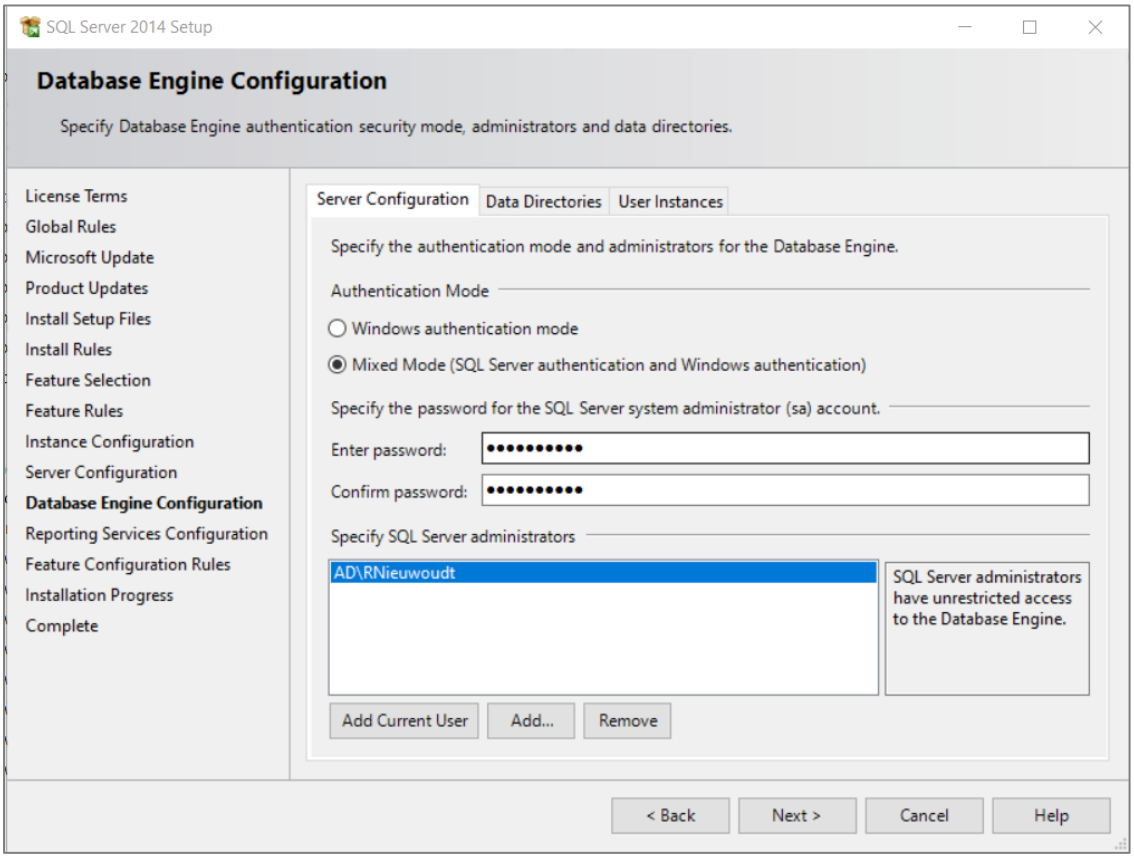
Search for **SYSTEM** select it and click **OK**



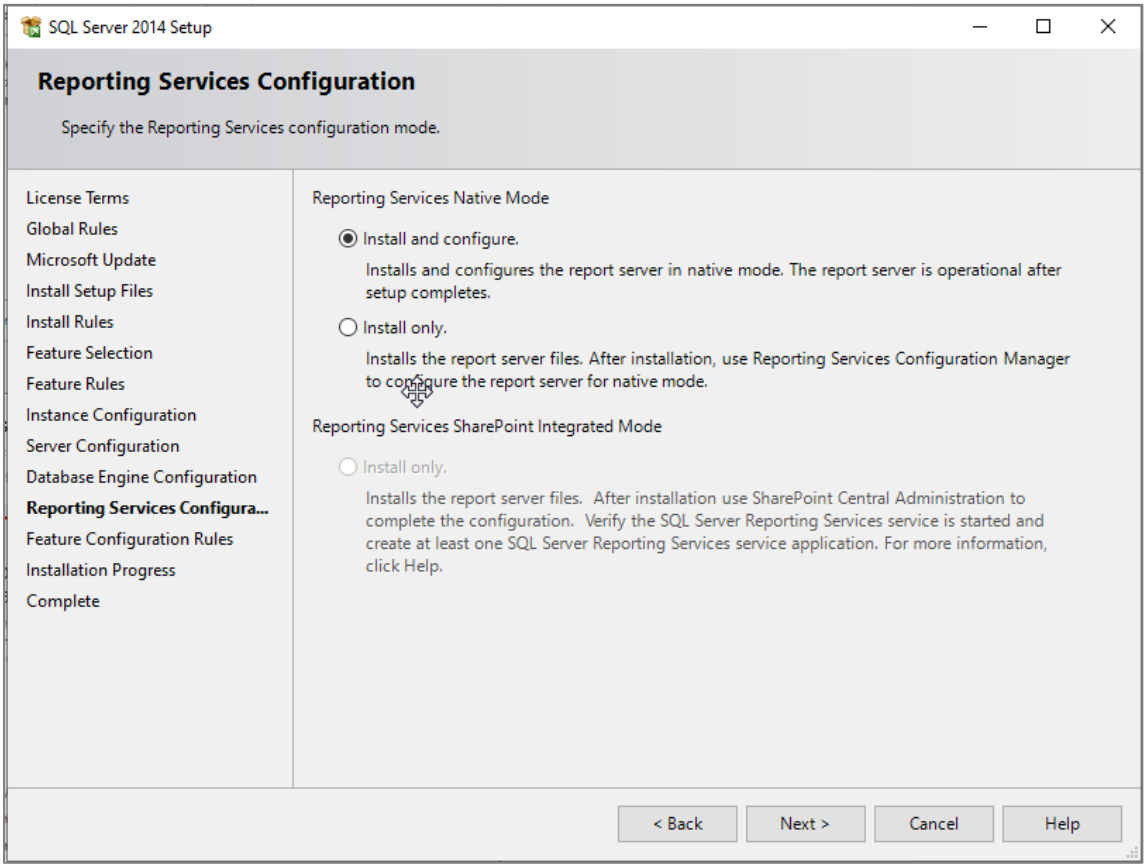
Click **OK** and click **Next**



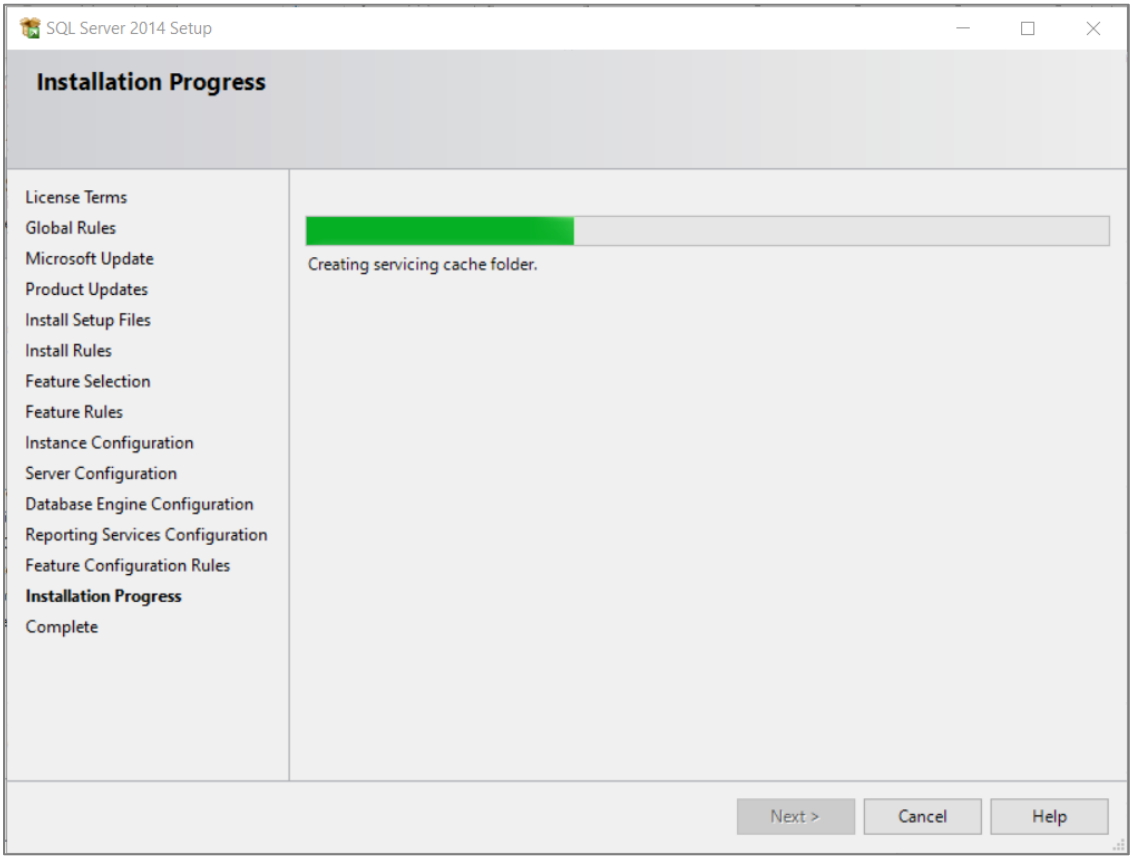
The Database Engine Configuration is very important, select **Mixed Mode** and enter the password for the (sa) account **M@sterkey1** then click **Add Current User**. Click **Next**



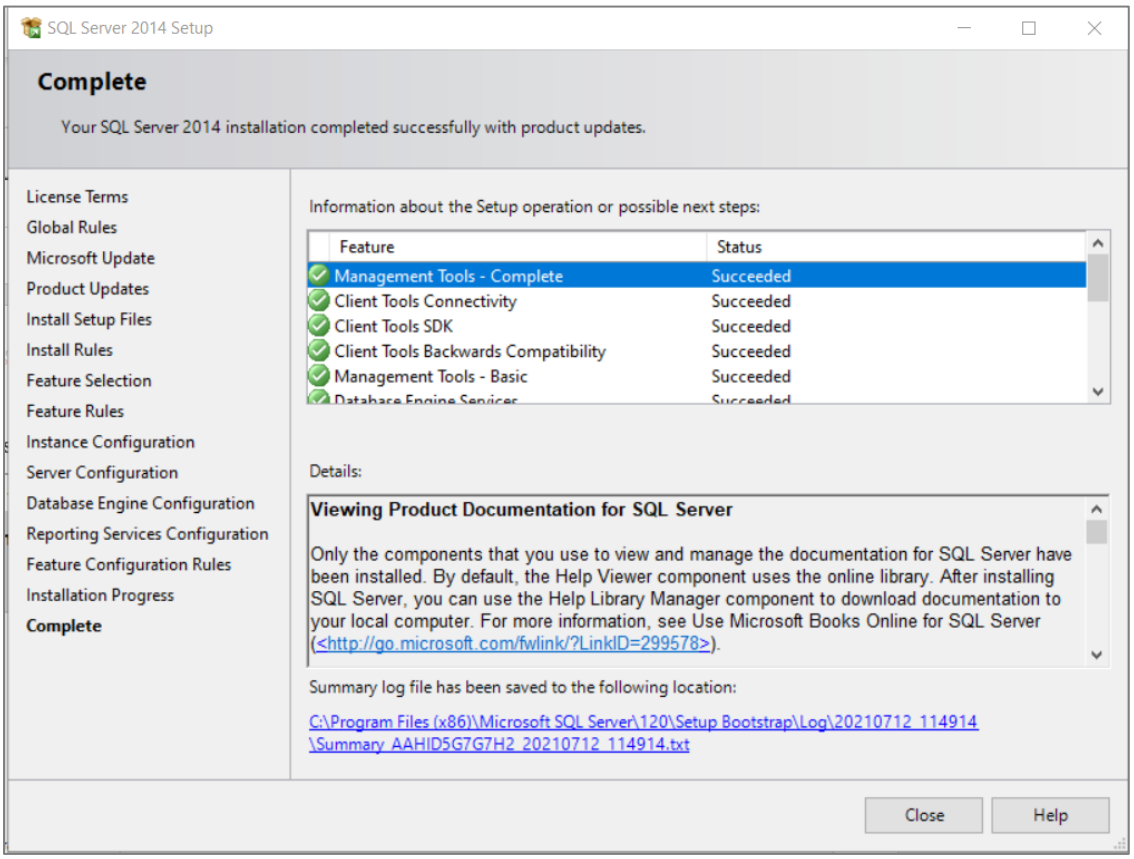
Leave default (*Install and configure*) and click **Next**



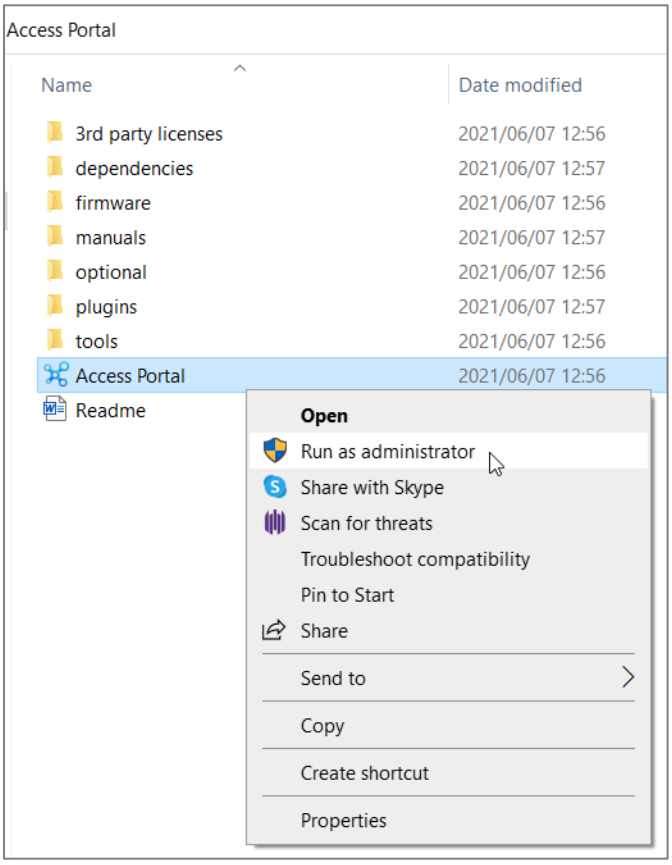
Wait for the Installation to finish.



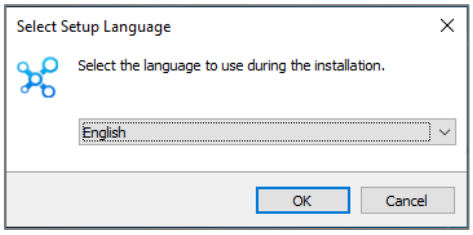
When the installation is complete and all the features you have selected to be installed succeeded click **Close**



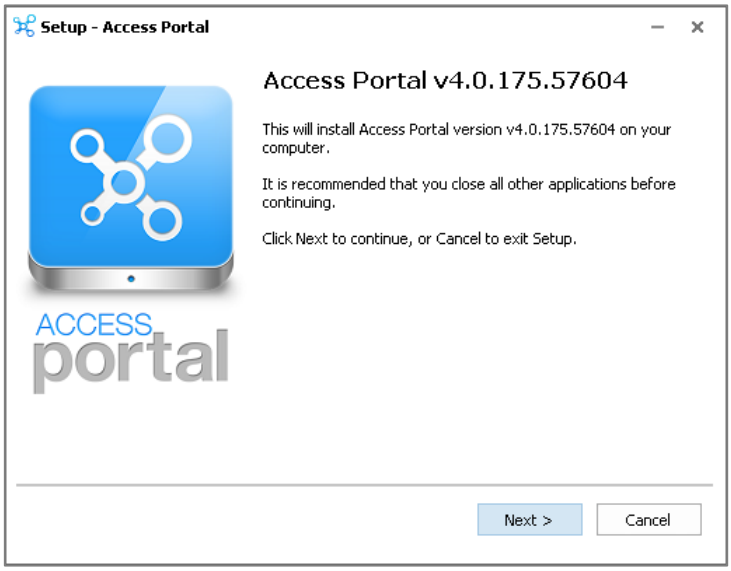
Navigate to the location where you have mounted the iso. Select "*Access Portal.exe*" and make sure to **Run as administrator**.



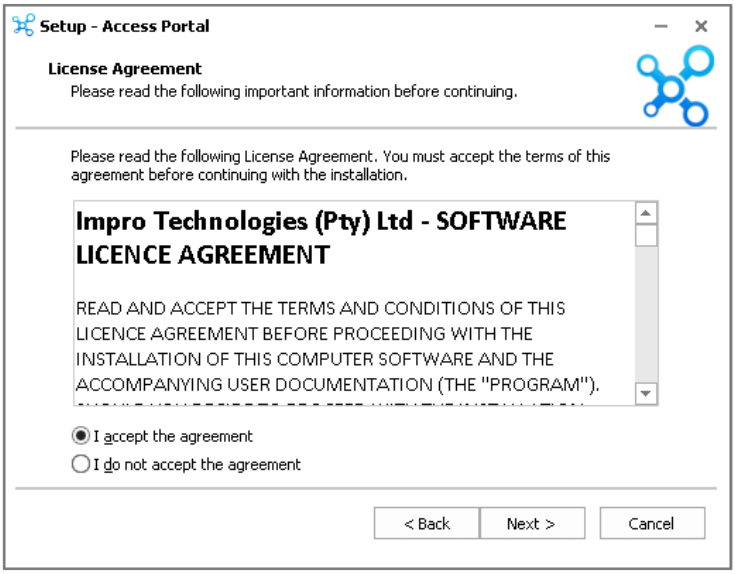
If you want to install Access Portal in another language, select your preferred language from the drop-down menu, and click **OK**



Now, click **Next** to begin the installation.

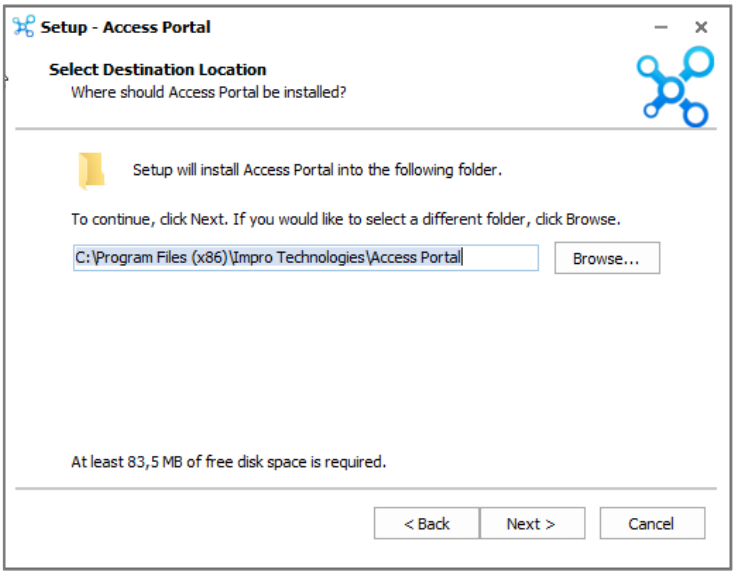


Read through and accept the software license agreement, then click **Next.**

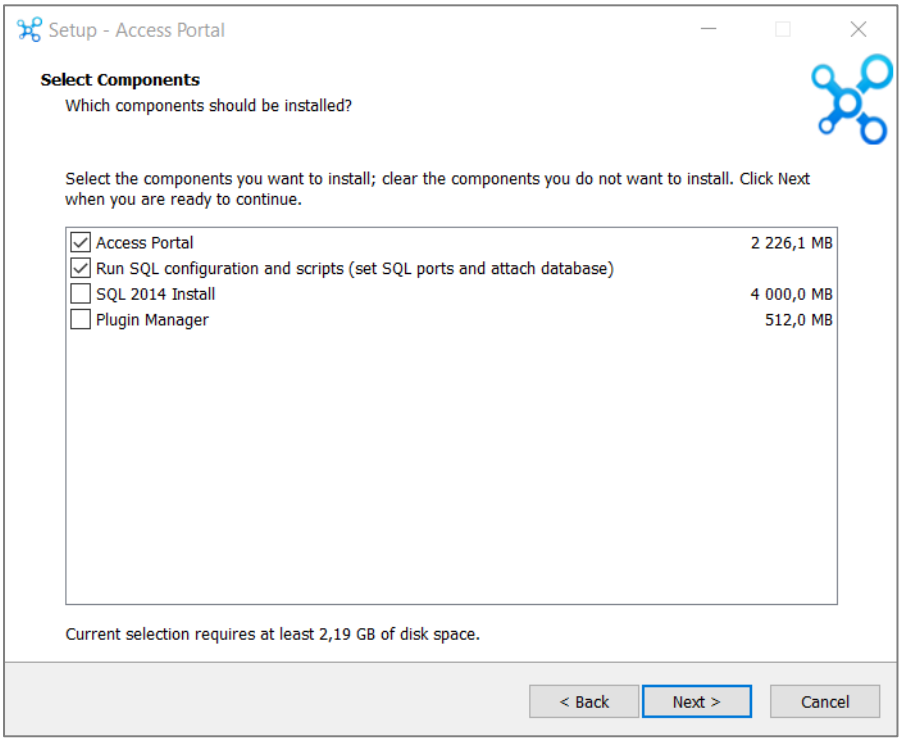


As of v4.XX, the default Access Portal software installation location is:
"C:\Program Files (x86)\Impro Technologies\Access Portal". Change the location if you prefer to install to another location.

*** Ensure that you have sufficient disk space available.



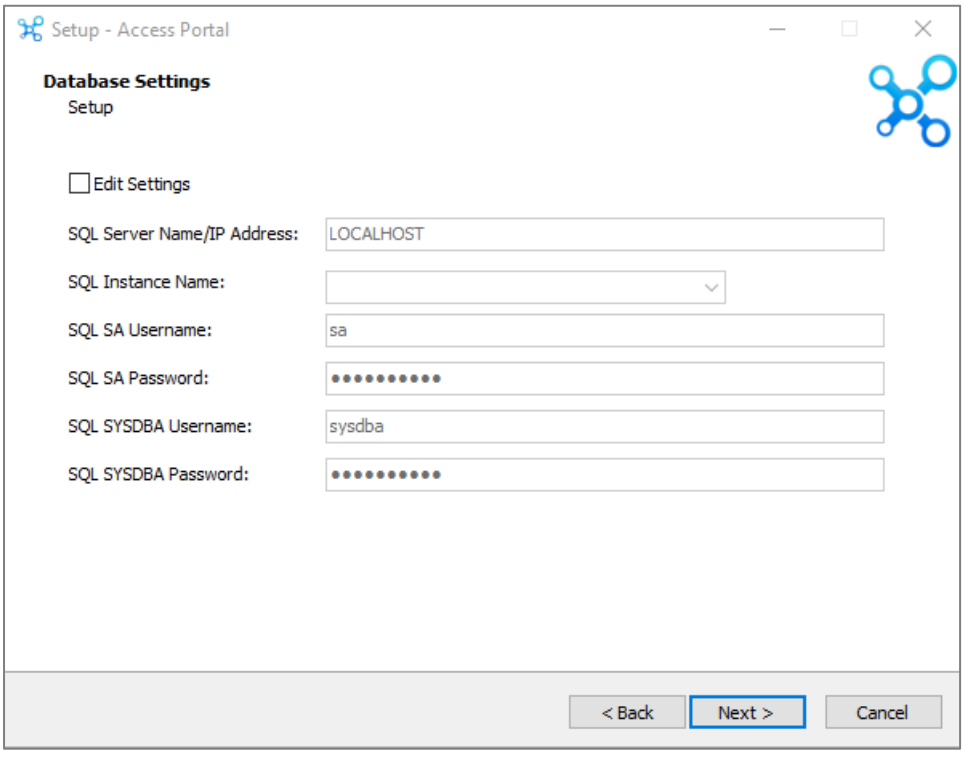
In this section, you need to select the components you wish to install for a new installation. You have installed SQL manually, select the **first 2** components, and click **Next**.



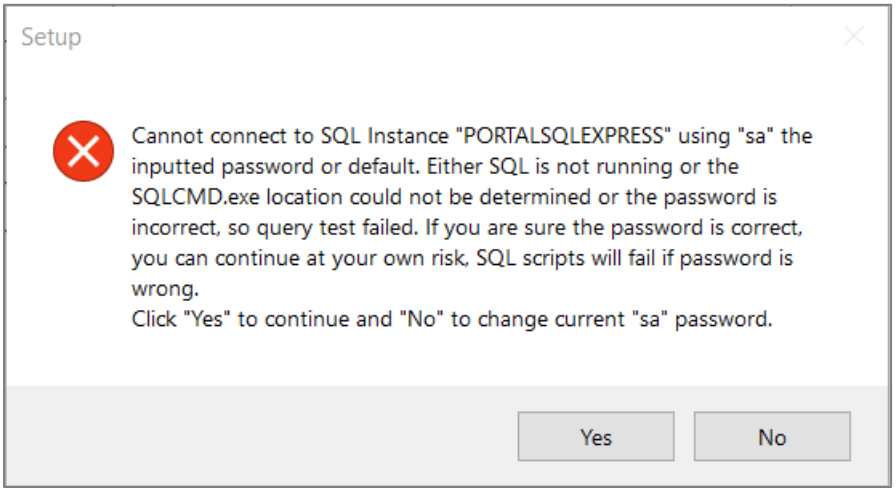
Now, you can specify the SQL Server connection details. For **new installations**, leave "**Edit Settings**" unticked to use the defaults and click "**Next**". If you wish to use a **different SQL Server details**, tick "Edit Settings" and enter the SQL Server connection details of your choice.

IMPORTANT

The **default** password for the "*sa*" and "*sysdba*" logins is "**M@sterkey1**" at installation time, unless manually changed. If you manually want to change tck Edit settings and change



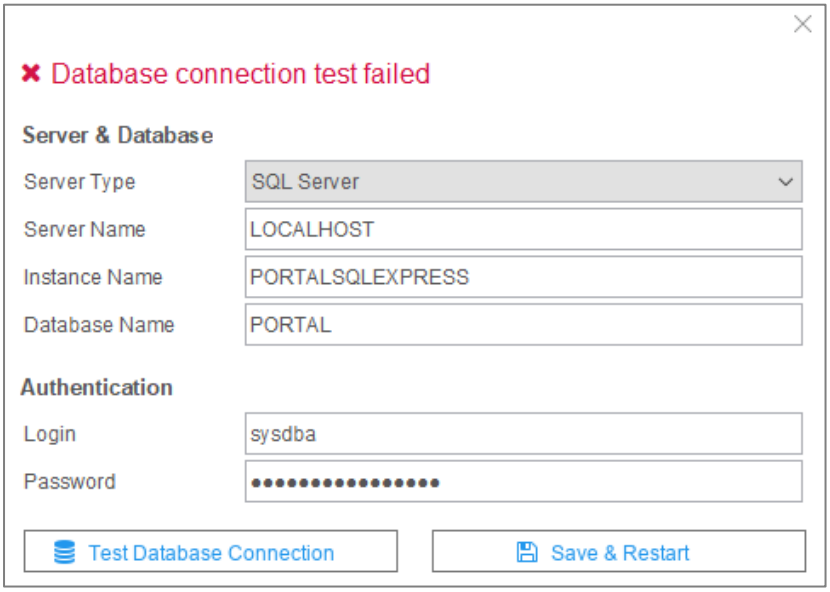
When you get this error, you can change the sa password or click on **Yes** to continue.



When the Portal installation is complete run Portal.exe as Administrator from this location

C:\Program Files (x86)\Impro Technologies\Access Portal\bin64.

If you get the following error

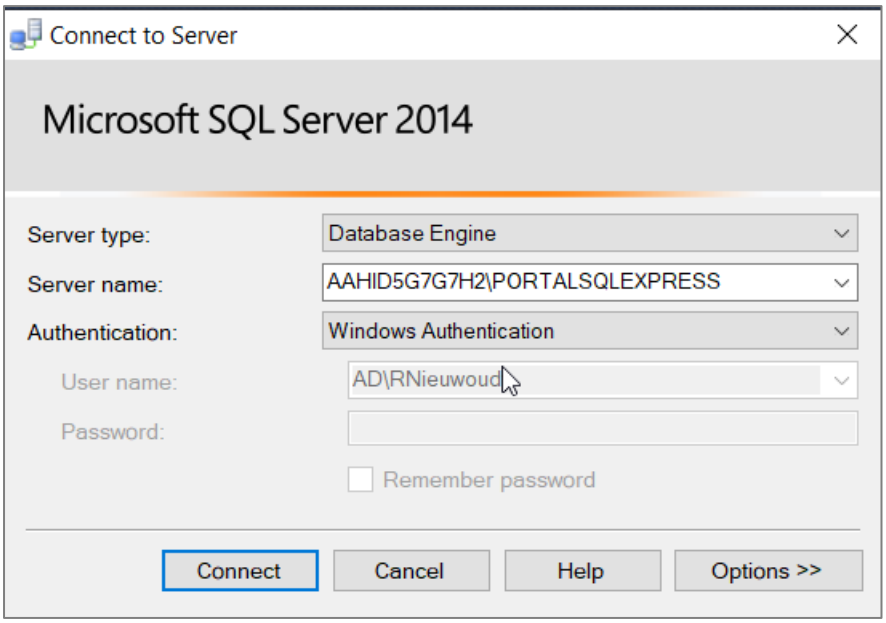


Check the following:

Open **SQL Server Management Studio**

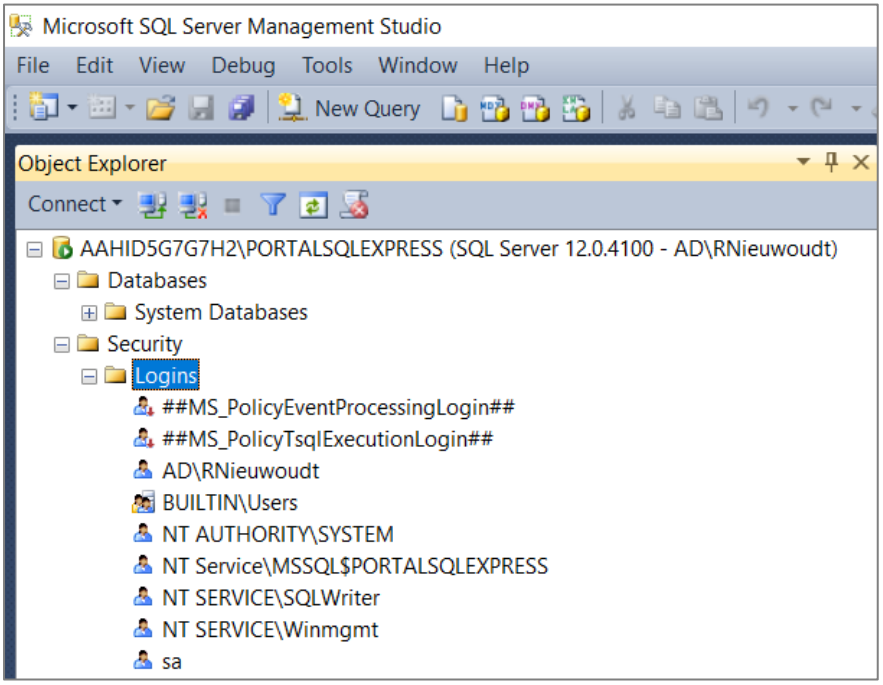
Start> Microsoft SQL Server 2014>SQL Server 2014 Management Studio

Login with **Windows authentication**. Drop down next to **Authentication,** select **Windows Authentication** and click **Connect.**



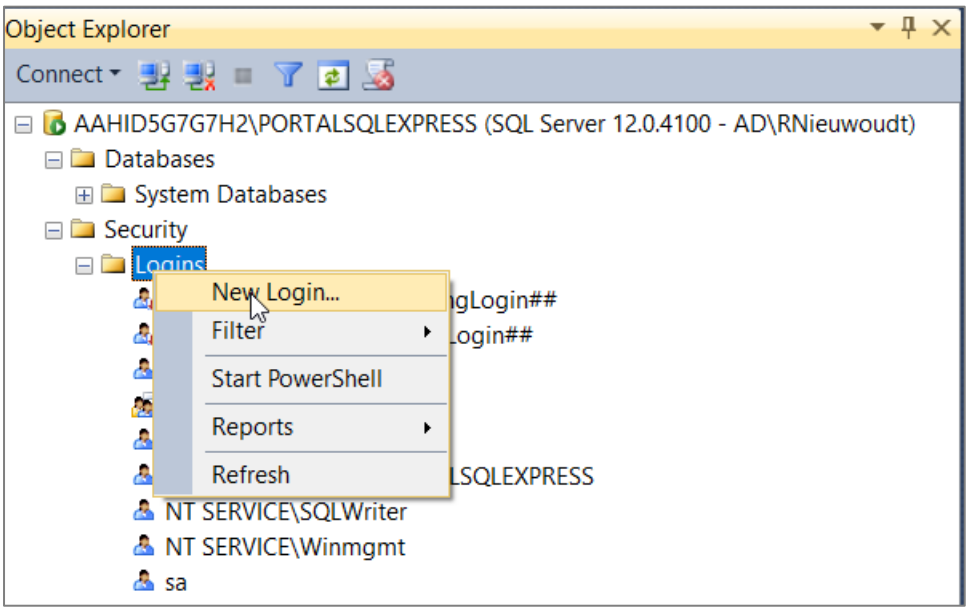
1. Check if the sysdba login exists.

Expand **Security>Logins** and look for sysdba

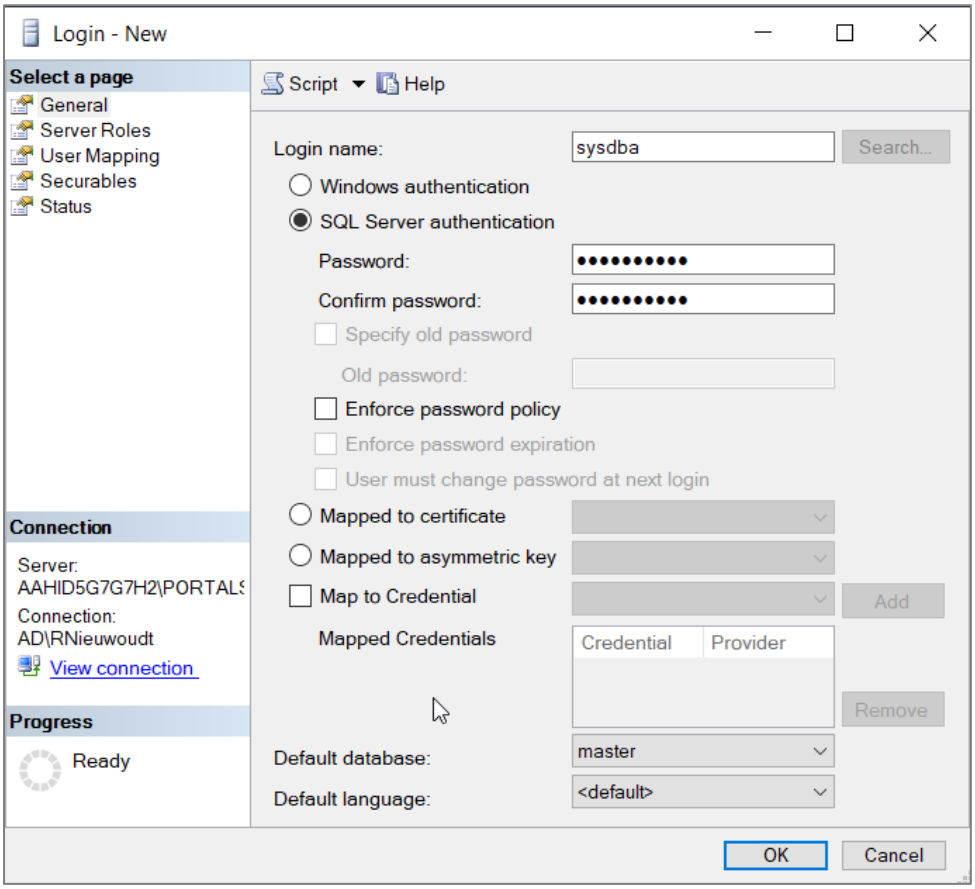


If sysdba does not exit you have to create a login for sysdba.

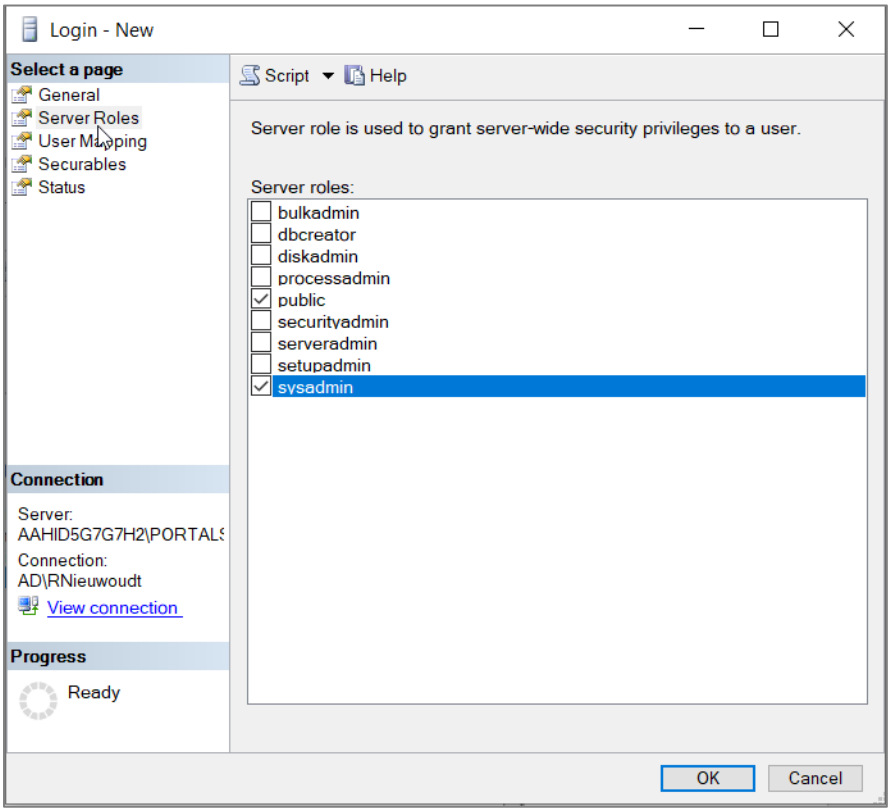
Right click on **Logins** and click **New Login.**



1. Type the login name as "**sysdba**".
2. Select "SQL Server authentication". Password **M@sterkey1**
3. Deselect "Enforce password policy" and click **OK**

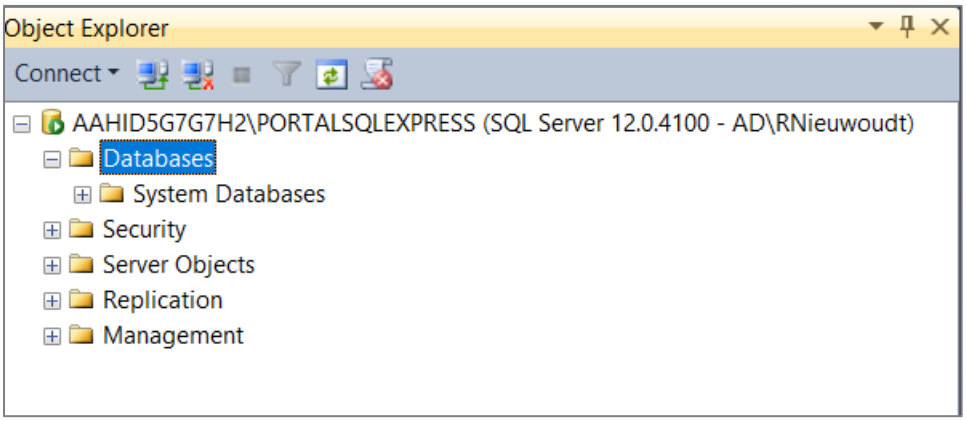


Select the **Server Roles** page and make sure the **public** and **sysadmin** roles are selected. Click **OK**.



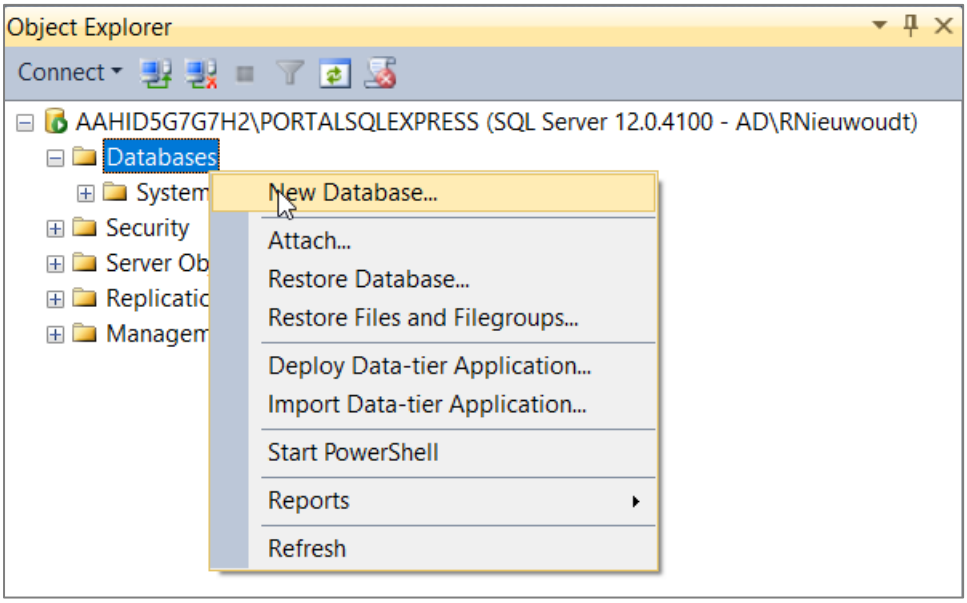
2. Check if there is a database called PORTAL attached.

Expand **Databases** and look for **PORTAL.** If it does not exist, you will need to create the database manually.



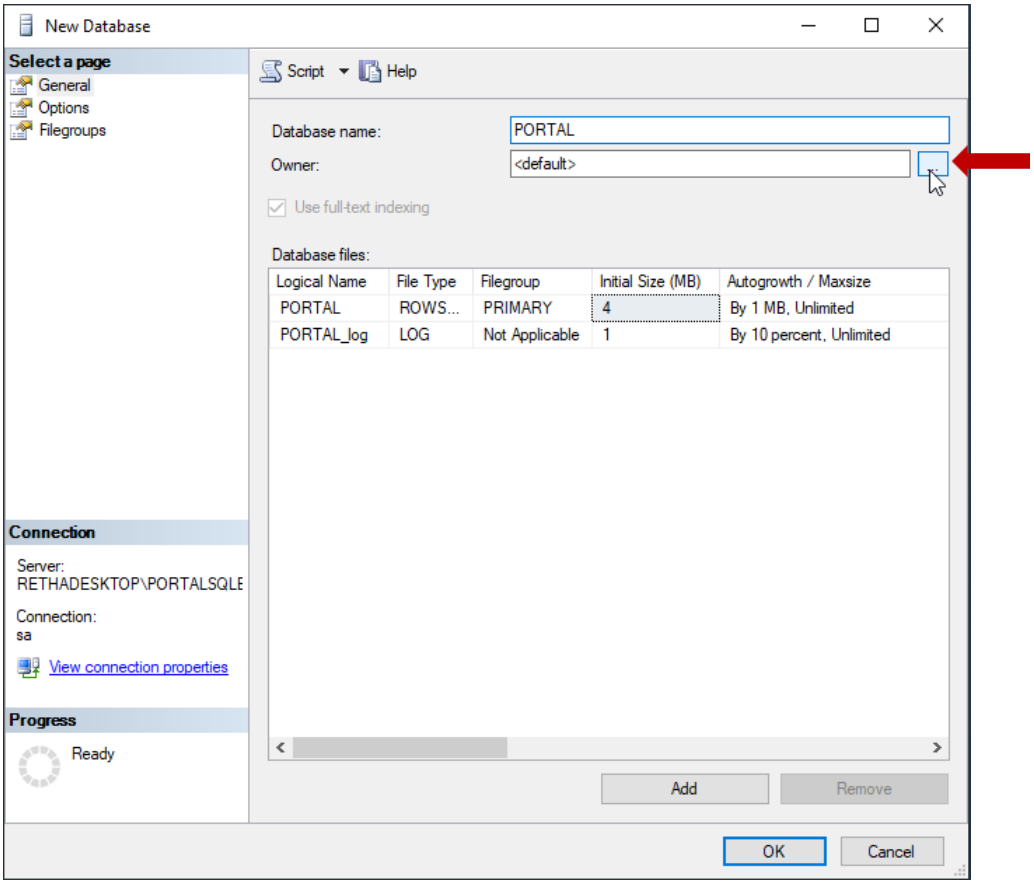
How the create the Portal Database manually

Right click Databases and select **New Database**.

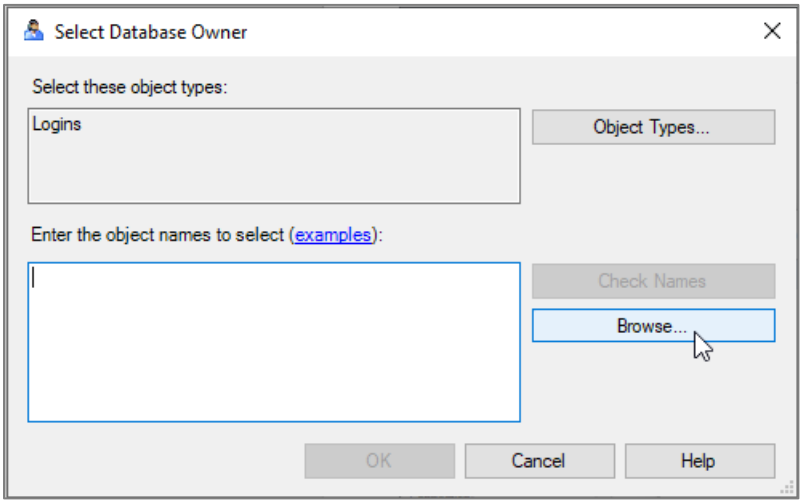


1. Enter the Database name: **PORTAL**
2. Change the Owner to sysdba **if the sysdba user is not created follow the steps on page 18 first

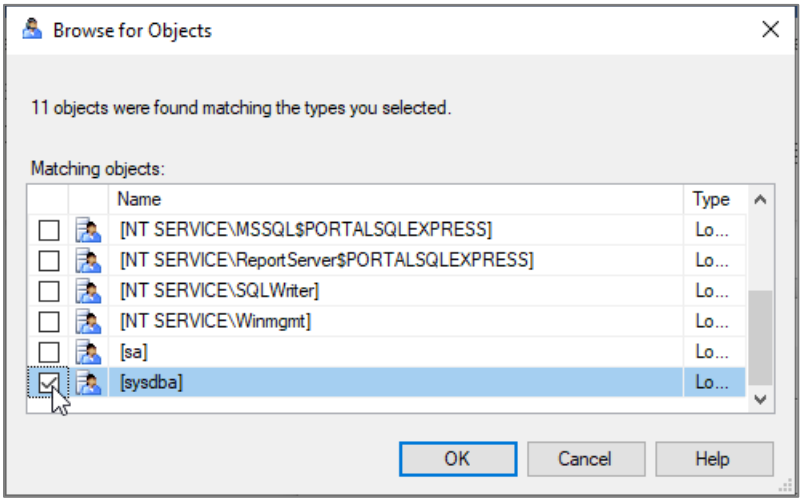
   To do this click on the dots **…**



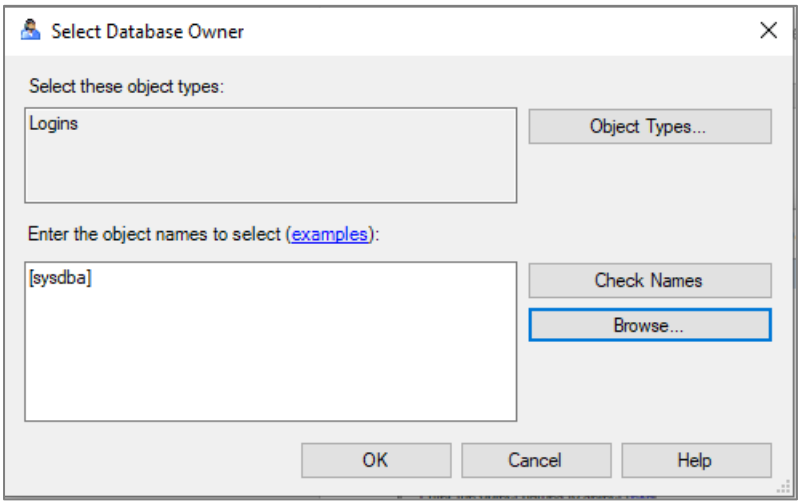
Click **Browse**



Scroll down and look for **sysdba** and select it. Click **OK**



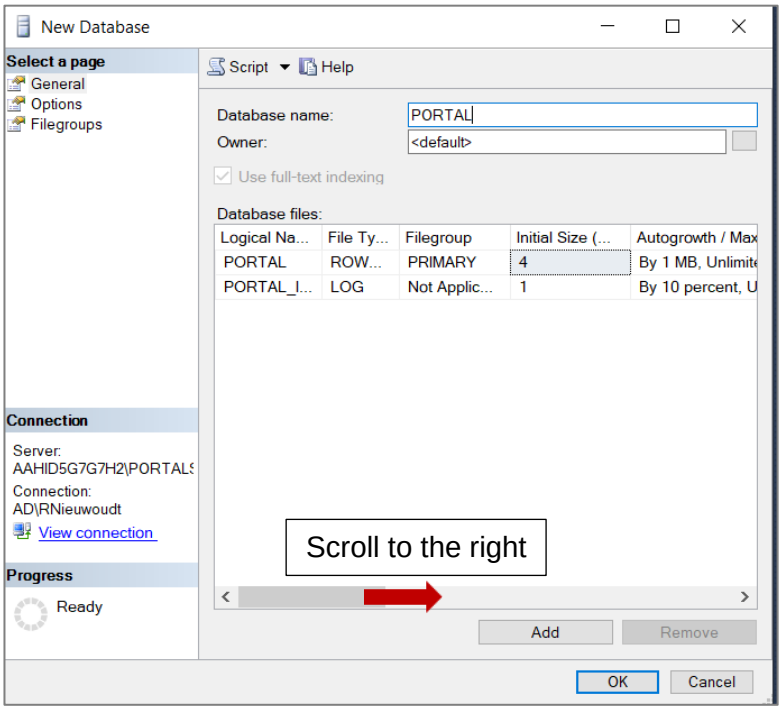
Click **OK**



3. ***Optional but good practice.

The PORTAL Database will by default be created in the **MSSQL\DATA** folder
e.g. *C:\Program Files (x86)\Microsoft SQL\Server\MSSQL12.PORTALSQLEXPRESS\MSSQL\DATA*

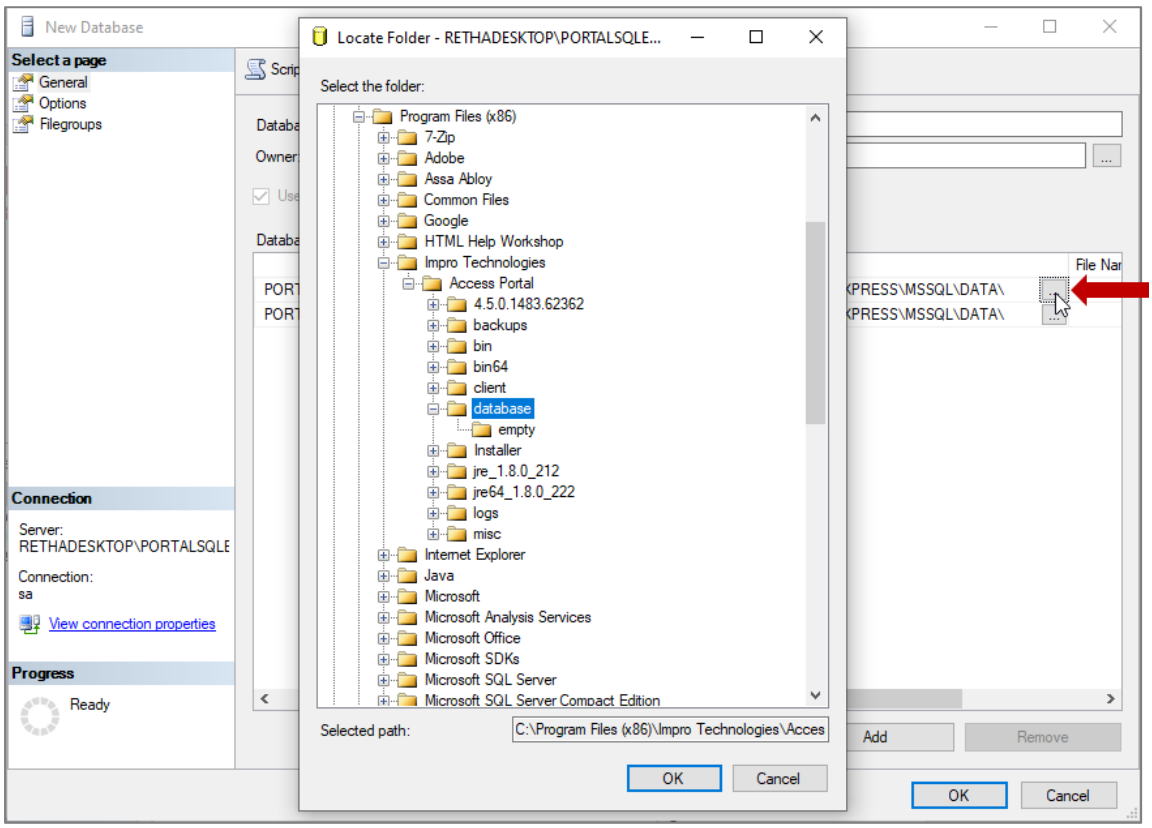
Scroll to the right



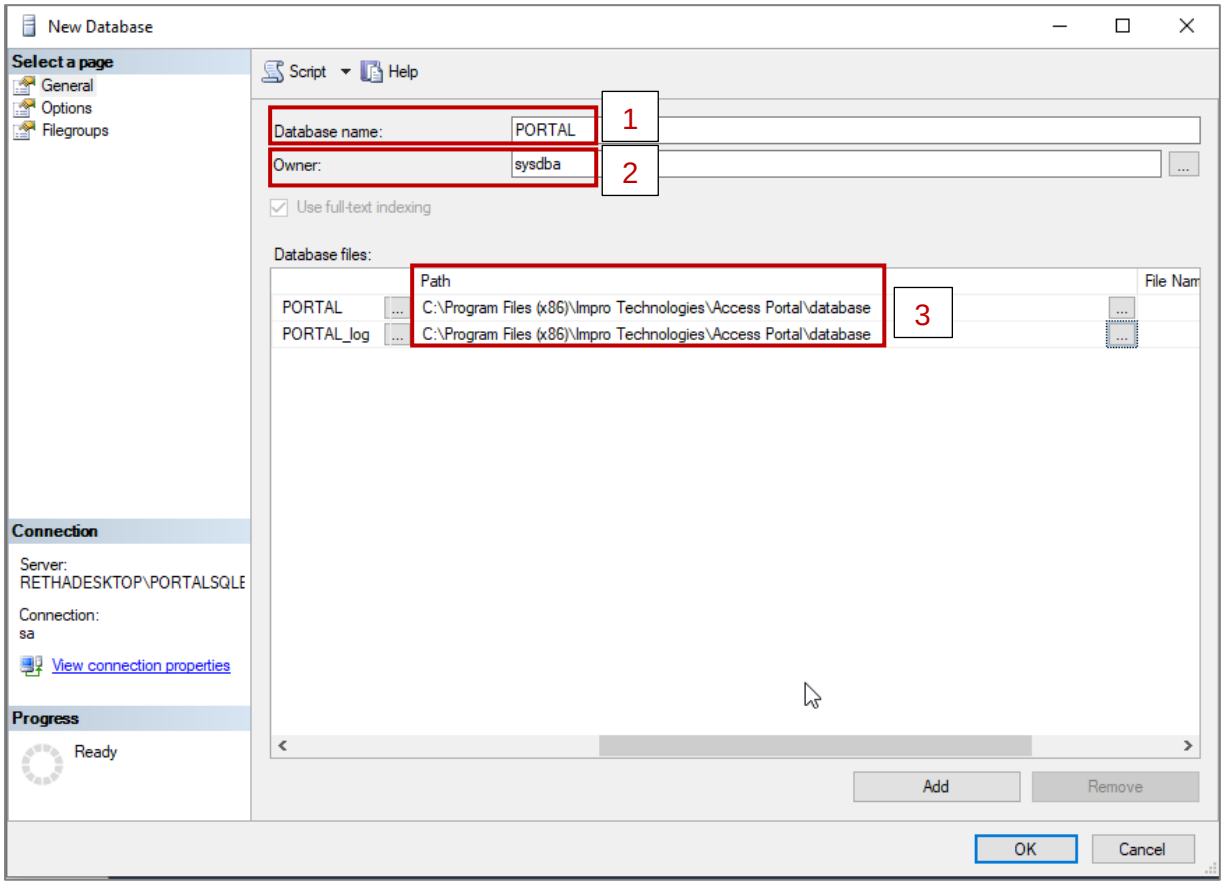
Click on the dots **…** and change the path for both the Database (mdf) and Database log (ldf) files to

[Drive:] \Program Files (x86) \Impro Technologies\Access Portal\database

and click **OK**

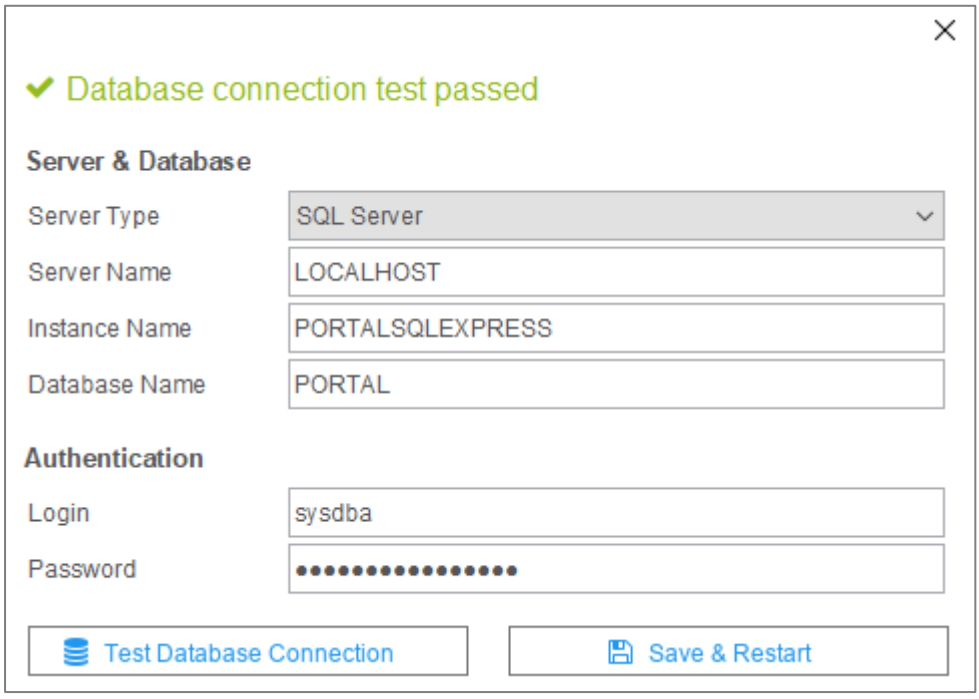


Confirm your settings and click **OK**



Click **Test Database Connection** and when the **Database connection test passed**

Click **Save & Restart**



When the Instance Name, Database Name and Password settings are correct, and you still get the error check the Protocol settings in SQL Server Configuration Manager

SQL Configuration Manager

The SQL configuration manager is used to stop/start your SQL services and to configure the SQL TCP/IP settings.

Open **SQL Configuration Manager**

Start>Microsoft SQL Server 2014>SQL Server 2014 Configuration Manager

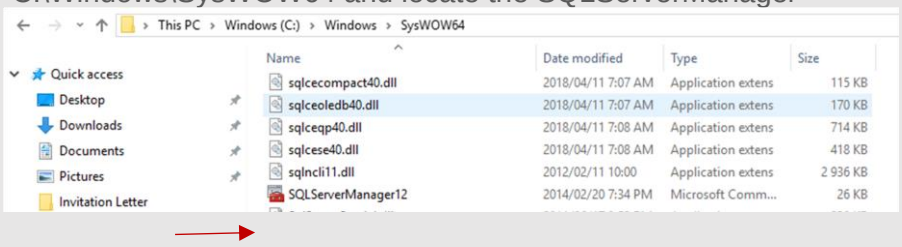
Steps for SQL network configuration

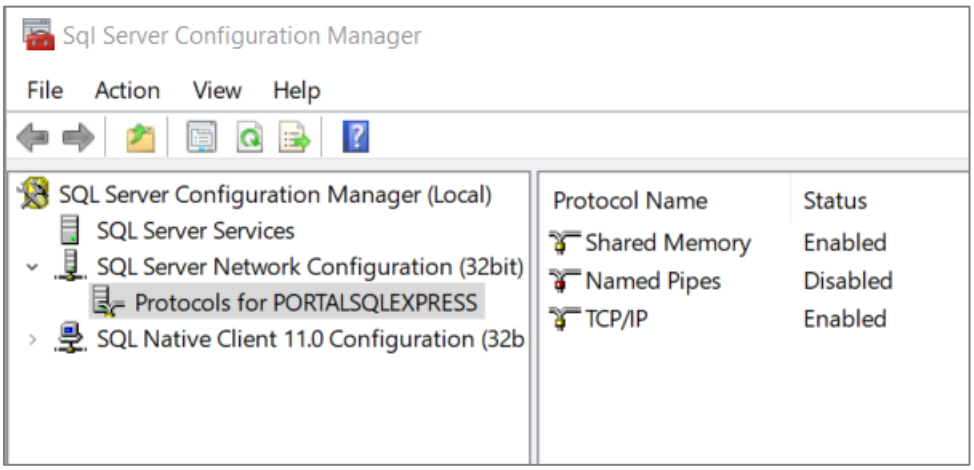
Expand **SQL Server Network Configuration** option and select **Protocols for PORTALSQLEXPRESS.**

NOTE

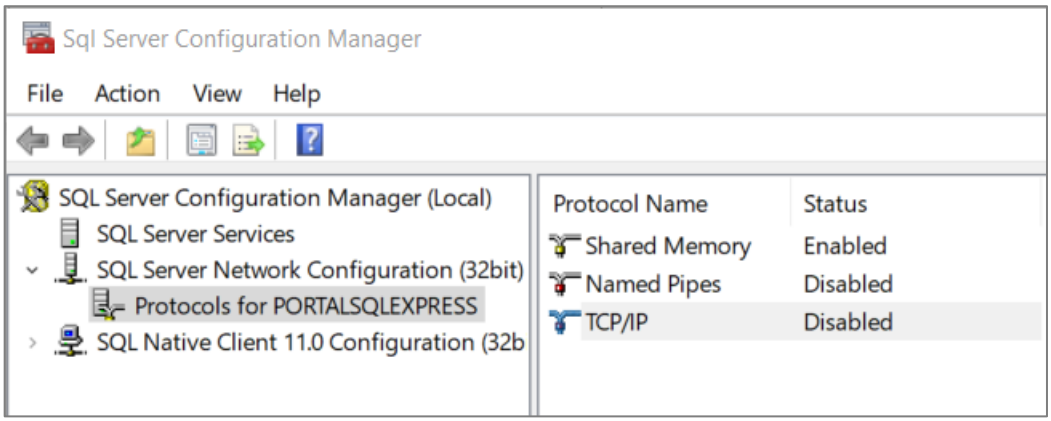
KNOWN ISSUES WITH WINDOWS 10 UPDATES REMOVING SQL SERVER CONFIGURATION MANAGER

Because SQL Server Configuration Manager is a snap-in for the Microsoft Management Console program and not a stand-alone program, SQL Server Configuration Manager does not appear as an application in newer versions of Windows.
Windows 10:
Another way to locate the server manager: Browse to
C:\Windows\SysWOW64 and locate the SQLServerManager

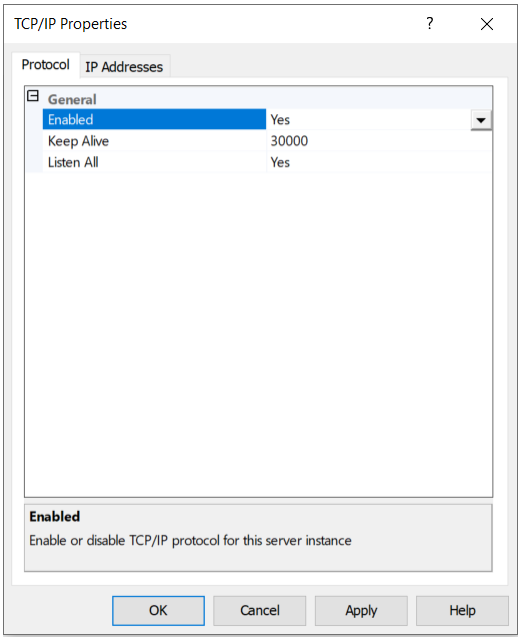




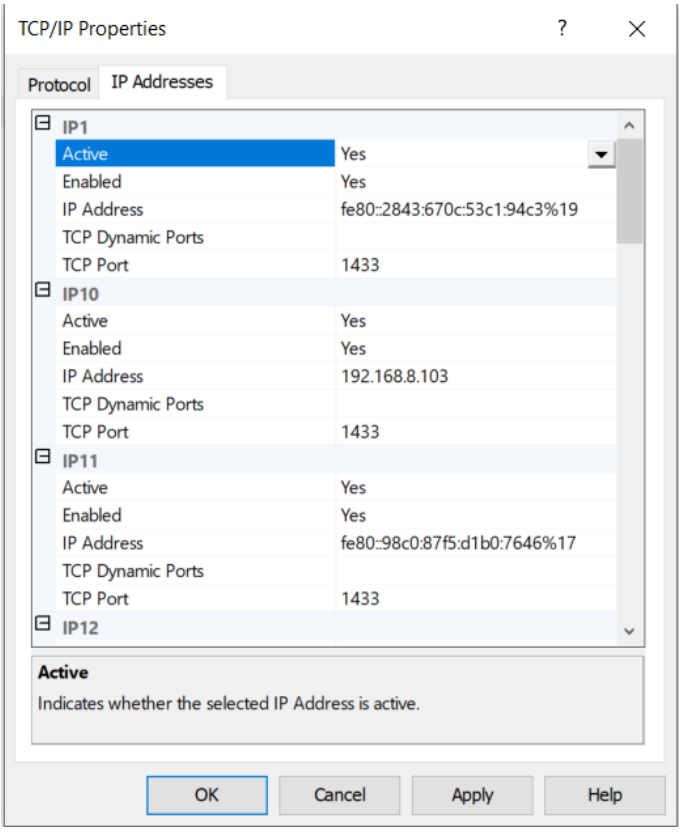
Double click **Protocols for PORTALSQLEXPRESS**



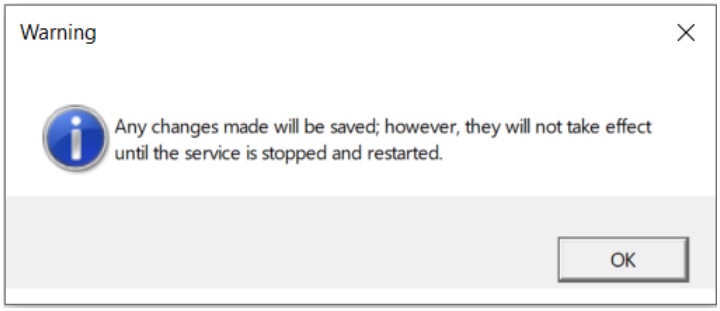
On the **Protocol** tab, change **Enabled** to **Yes.**



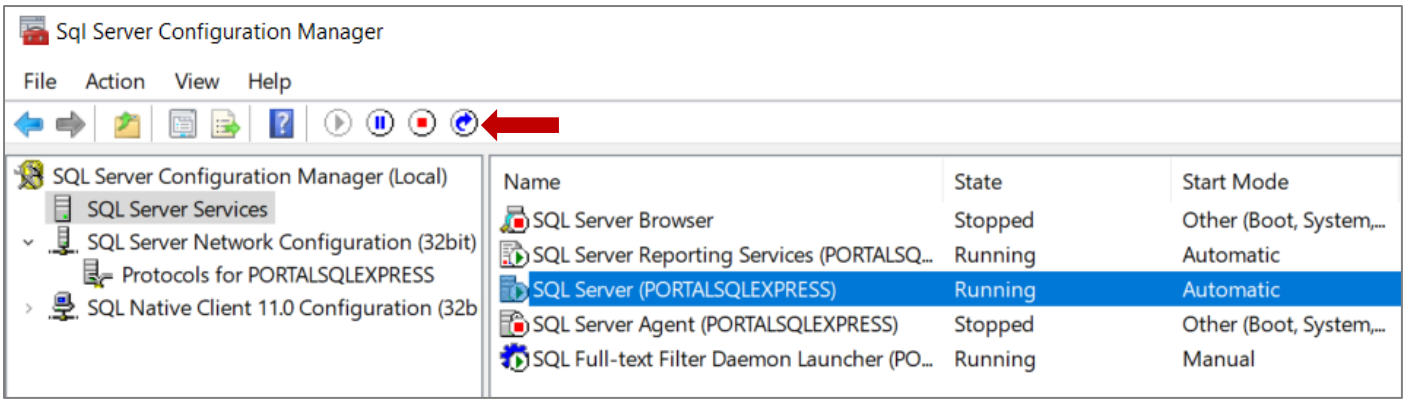
On the **IP Addresses** tab, change **Active** and **Enabled** to **Yes** for all the IP addresses, scroll down and under **IPAll**, insert **1433** as the **TCP Port** and click **OK.**



The following Warning message will appear. Click **OK**.

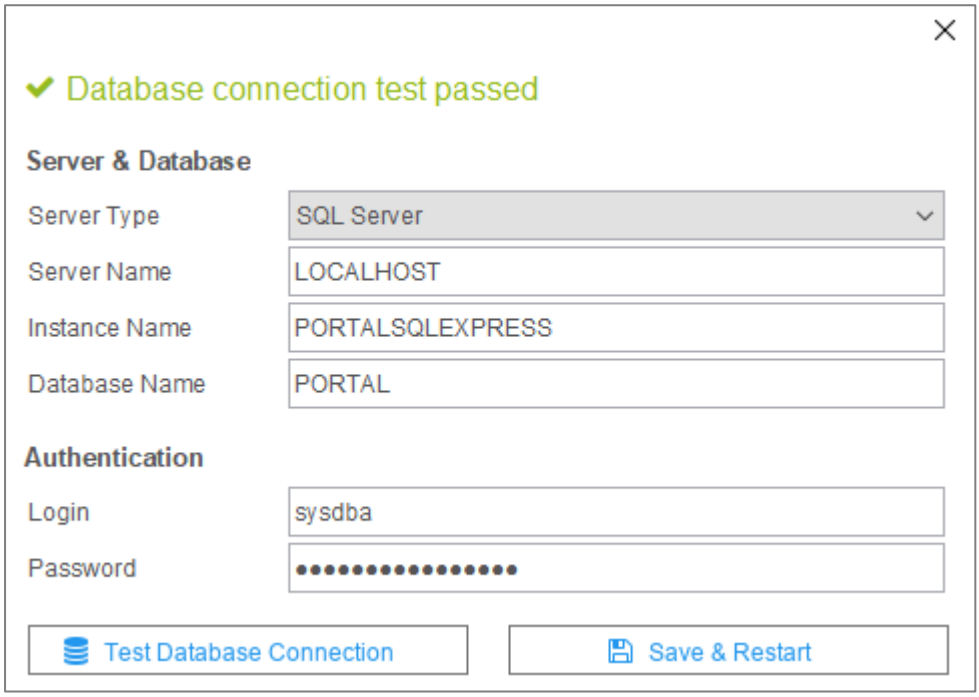


Select **SQL Server Services** click restart to restart the SQL Server (PORTALSQLEXPRESS) service



**** Note:** If the database is on another server, contact your IT or DB administrator and find out the server name or IP address and enter this in the Server Name box.

If the connection is successful, your screen should look like the below



Click **Save & Restart**