

Instructions for NEW SERVER migration ABELDent Version 14.8.2 (OLD SERVER) to 14.8.2 (NEW SERVER).

OLD SERVER

1. Make an SQL backup "BAK" See ["Create a Full Database Backup"](#)
2. **It is advisable to STOP AND DISABLE 3 services, SQL Server (MSSQLSERVER), SQL Server Agent (SQLSERVERAGENT) and SentinelLM** do this in services.
3. **Copy the entire contents of the (old server) ABELDent folder** over to the new server desktop, C or D drive, we suggest renaming the folder to **ABELDent_old** when it gets to the new server.

NEW SERVER PREPARATION

4. **Install SQL Server 2022 and SQL management studio SSMS.** Installers will be supplied to you if required and licenses purchased. See document ["Installing SQL Server 2022"](#) and ["SQL management studio SSMS"](#)
1. **Restore the SQL Abeldent data BAK file** (created on the old server) in SQL management studio.
See document ["Restoring database"](#)
2. **NOTE at this point the database will be version 14.8.2.**
3. **Install a fresh copy of ABELDent DCS 14.8.2-E** to your desired installation destination. Installers will be supplied to you if required.
4. **Copy 4 folders** (see below) **from the (renamed ABELDent_old folder** (from old server) **to the current install directory ...**

DATA, ENV, GATEWAY, MASTSPEC, and 1 file called "sched.ini"

IMPORTANT: Creating an SQL Maintenance plan next is critical to ensure data is backed up

See document ["Creating SQL SERVER Maintenance Plan"](#)

It is your responsibility to ensure the new server is backed up. Some offices do their own backups, while some subscribe to ABELDent RBR Cloud Backups. If you have ABEL RBR please contact us at 1-800-267-ABEL (2235) Ext. 2 to move it to the new server.

When ready Call 1-800-267-2235 x 2 for Licencing / gateway (for ITRANS) setup

Create a Full Database Backup

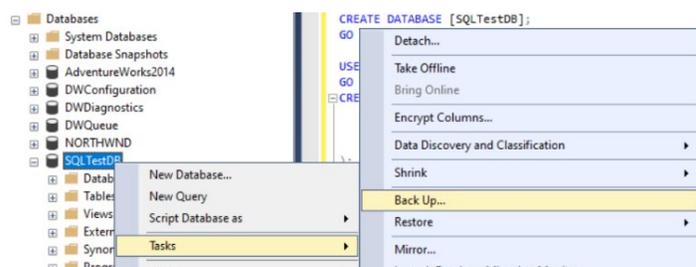
Create a Full back up to disk to non-default location using SQL Server Management Studio

Backups created by more recent version of SQL Server can't be restored in earlier versions of SQL Server.

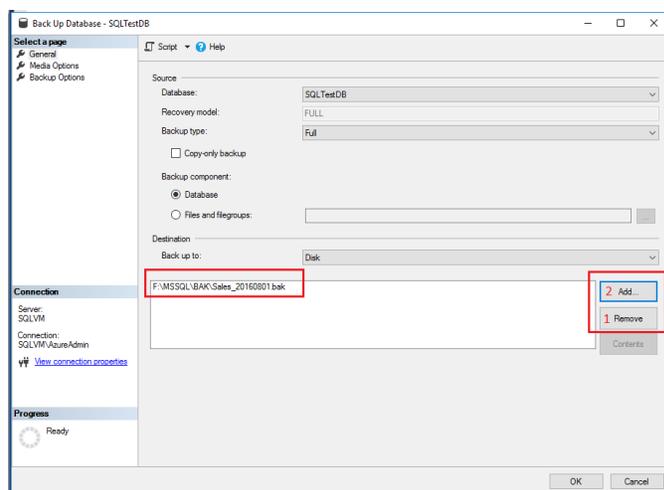
Below find instructions. The **database will be called abel not SQLTestDB** (this is for for example purposes only) The database will be backed up to disk at a location of your choice.

After connecting to the appropriate instance of the Microsoft SQL Server Database Engine, in Object Explorer, expand the server tree.

Expand Databases, right-click SQLTestDB, point to Tasks, and then select Back Up....



On the General page in the Destination section select **“Disk”** from the Back up to: drop-down list.



Select **“Remove”** until all existing backup files have been removed.

Select **“Add”** and the **“Select Backup Destination”** dialog box will open.

Enter a valid path and file name in the File name text box and **use .bak** as the extension to simplify the classification of this file.

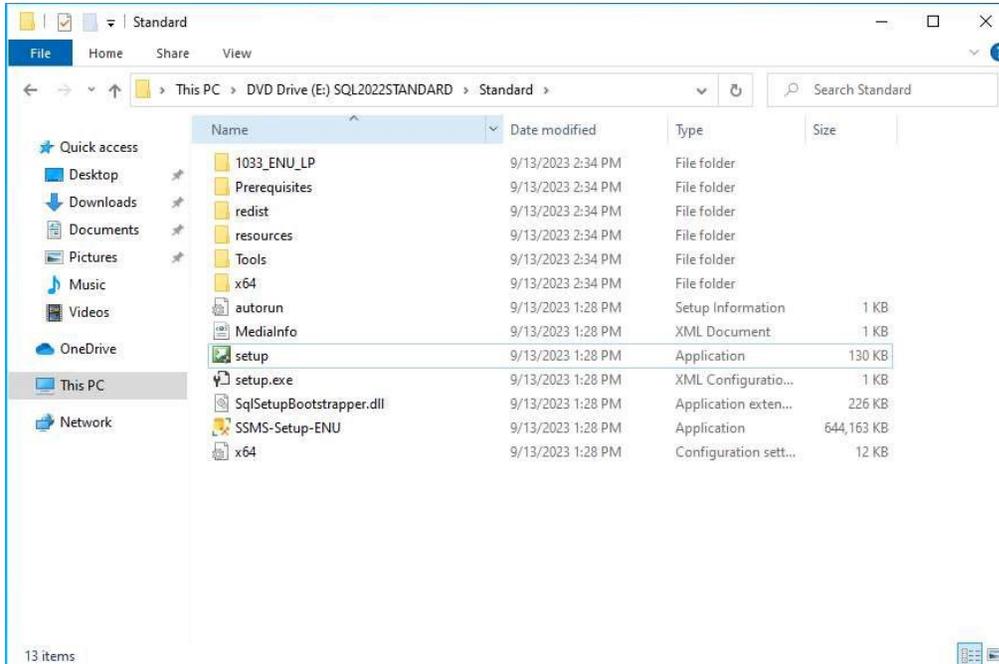
Select **“OK”** and then select **“OK”** again to start the backup.

When the backup completes successfully, select **“OK”** to close the SQL Server Management Studio dialog box.

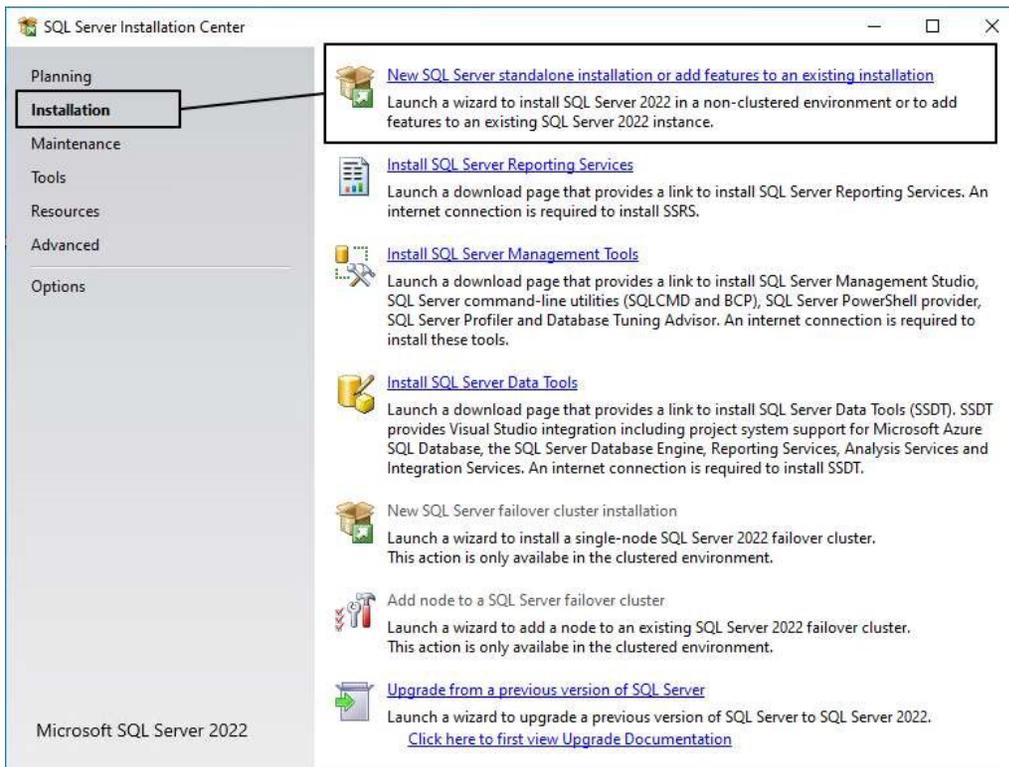
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SQL 2022 install

Run the “setup.exe” in the “Standard” folder supplied.



Select “Installation” in the left pane, then “New SQL Server stand-alone installation”



Click the “I have a SQL License only” checkbox then “Next” through the license terms and product key

SQL Server 2022 Setup

Edition

Select the edition of SQL Server 2022 you want to install.

Edition

License Terms
Global Rules
Product Updates
Install Setup Files
Install Rules
Azure Extension for SQL Server
Feature Selection
Feature Rules
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

Select an edition of SQL Server to install. You can choose to either use a SQL Server license that you have already purchased by entering the product key or choose pay-as-you-go billing through Microsoft Azure. You can also specify a free edition of SQL Server: Developer, Evaluation, or Express. Evaluation has the largest set of SQL Server features, as documented in SQL Server Books Online, and is activated with a 180-day expiration. Developer edition does not have an expiration, has the same set of features found in Evaluation, but is licensed for non-production database application development only. To upgrade from one installed edition to another, run the Edition Upgrade Wizard.

Specify a free edition:

Evaluation

Use pay-as-you-go billing through Microsoft Azure:

Warning: To enable this option, you must have an active Azure subscription that you will be required to provide along with a resource group, Azure region, and tenant ID later in setup. For more information, see <https://aka.ms/ArcEnabledSqIPAYG>.

Standard

Enter the product key:

FG86G-CHH2T-CB7NJ-XT7D2-V8V4X

I have a SQL Server license with Software Assurance or SQL Software Subscription

I have a SQL Server license only

< Back Next > Cancel

SQL Server 2022 Setup

License Terms

To install SQL Server 2022, you must accept the Microsoft Software License Terms.

Edition

License Terms
Global Rules
Product Updates
Install Setup Files
Install Rules
Azure Extension for SQL Server
Feature Selection
Feature Rules
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

SQL Server 2022 Standard Edition

YOU MUST ACCEPT THE SOFTWARE LICENSE TERMS. SEE BELOW. Please read the full license terms provided at (aka.ms/useterms).

DATA COLLECTION. The software may collect information about you and your use of the software and send that to Microsoft. Microsoft may use this information to provide services and improve Microsoft's products and services. Your opt-out rights, if any, are described in the product documentation. Some features in the software may enable collection of data from users of your applications that access or use the software. If you use these features to enable data collection in your applications, you must comply with applicable law, including getting any required user consent, and maintain a prominent privacy policy that accurately informs users about how you use, collect, and share their

Copy Print

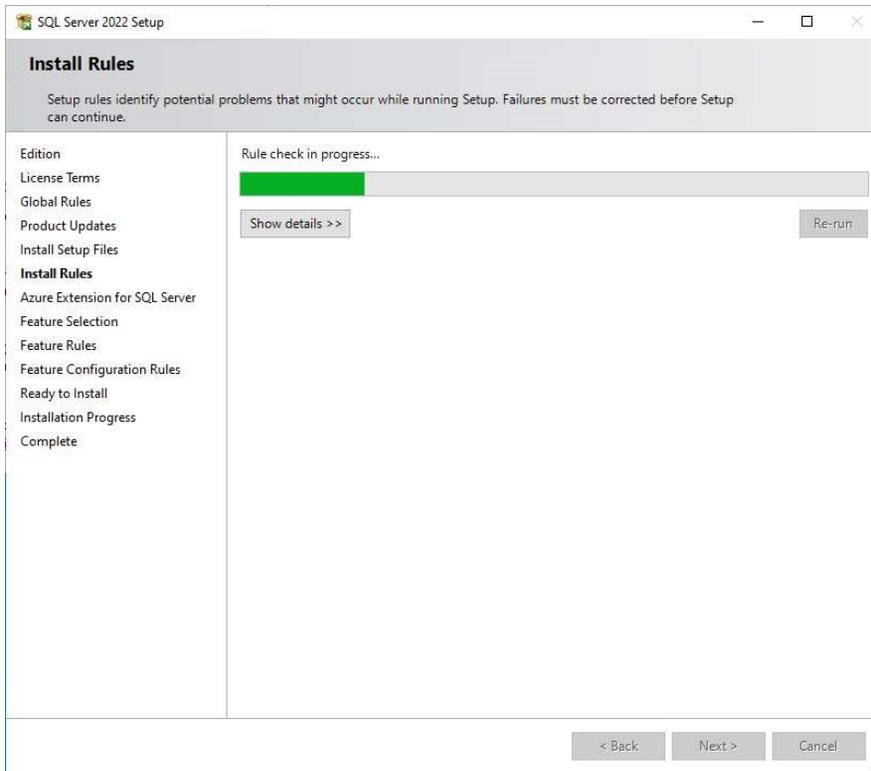
I accept the license terms and [Privacy Statement](#)

Notice: A paid SQL Server edition product key has been provided for the current action - Standard. Please ensure you are entitled to this SQL Server edition with proper licensing in place for the product key (edition) supplied.

SQL Server transmits information about your installation experience as well as other usage and performance data. Azure Arc connection also transmits the configuration data to allow you to manage and protect your SQL Server instance using Azure Portal and services. To learn more about data processing and privacy controls, and to turn off the collection of certain information, see the [documentation](#).

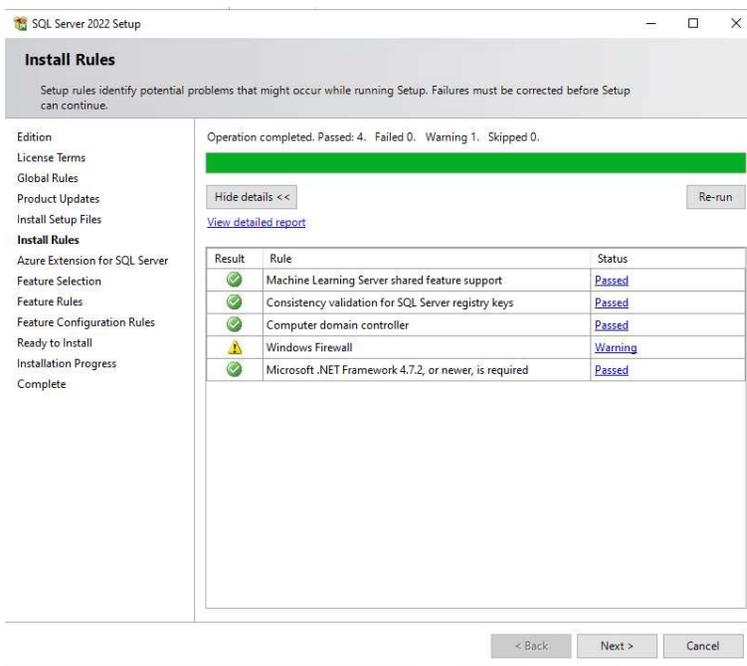
< Back Next > Cancel

The product will begin to download updates, extract, and install the setup files.

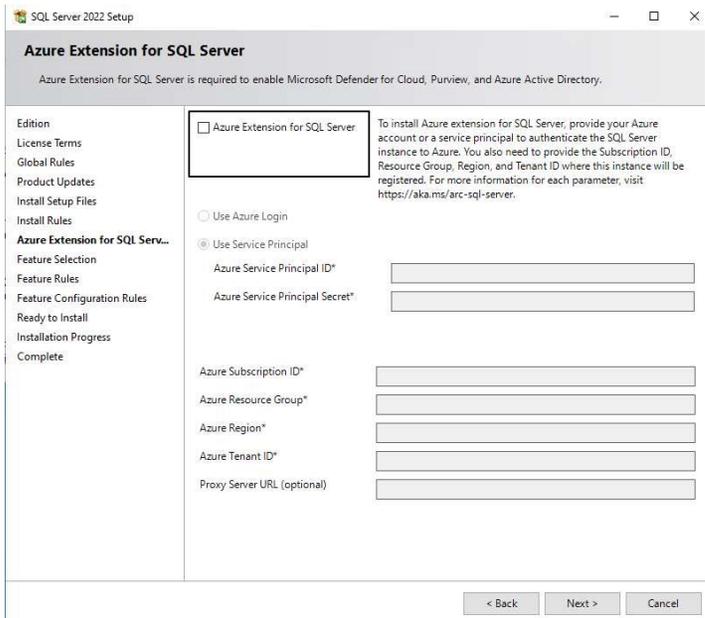


The setup will check to see if your system has the **pre-requisites for installing SQL**. **If any of the conditions are not met, you will have to resolve them before proceeding**. Additional information on resolving the problems is contained in the link in the status column.

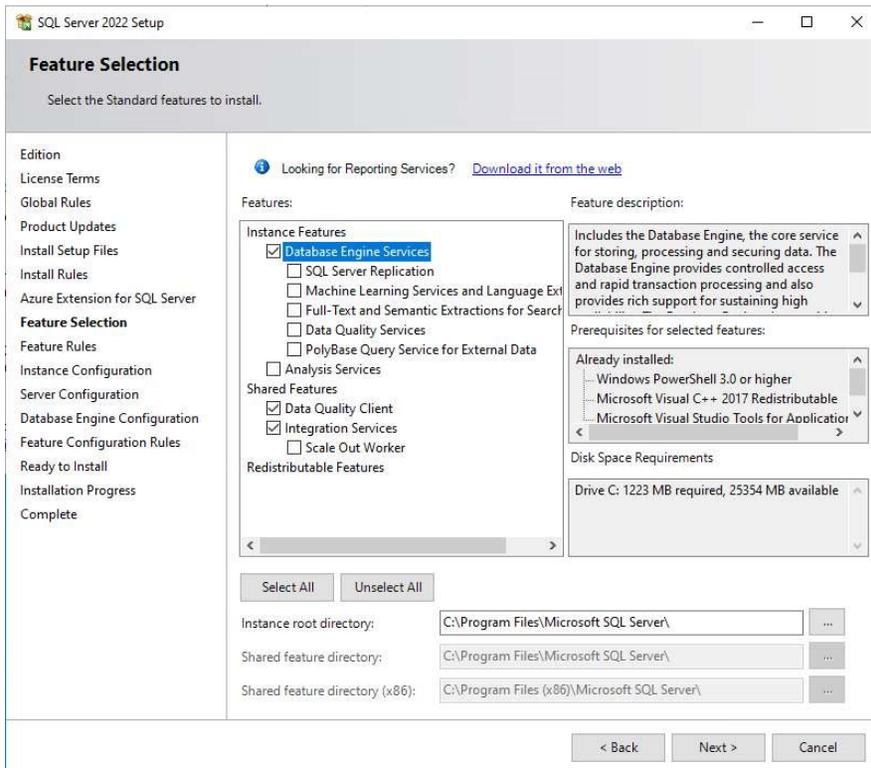
If there are no errors, click **“next”**



Uncheck "Asure Extension for SQL Server"



In Feature Rules Selection check **"Database Engine Services, Data Quality Client and Integration Services"** then click **"next"**



Instance Configuration

If this is a new server and no other SQL database installed this next screen will create what's called a default instance for Abeldent data Click "next"

If there is a previous install of SQL for another so ware you may need create a Named Instance for Abeldent data. Click "next"

The screenshot shows the 'Instance Configuration' window in the SQL Server 2022 Setup wizard. The window title is 'SQL Server 2022 Setup' and the subtitle is 'Instance Configuration'. Below the subtitle, it says 'Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path.'

The left sidebar contains a list of steps: Edition, License Terms, Global Rules, Product Updates, Install Setup Files, Install Rules, Azure Extension for SQL Server, Feature Selection, Feature Rules, Instance Configuration (highlighted), Server Configuration, Database Engine Configuration, Feature Configuration Rules, Ready to Install, Installation Progress, and Complete.

The main area has two radio buttons: 'Default instance' (selected) and 'Named instance: *'. The 'Named instance' field contains 'MSSQLSERVER'. Below this, the 'Instance ID:' field also contains 'MSSQLSERVER'. The 'SQL Server directory:' is 'C:\Program Files\Microsoft SQL Server\MSSQL16.MSSQLSERVER'. The 'Installed instances:' section is empty.

At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

Click "next"

The screenshot shows the 'Server Configuration' window in the SQL Server 2022 Setup wizard. The window title is 'SQL Server 2022 Setup' and the subtitle is 'Server Configuration'. Below the subtitle, it says 'Specify the service accounts and collation configuration.'

The left sidebar contains a list of steps: Edition, License Terms, Global Rules, Product Updates, Install Setup Files, Install Rules, Azure Extension for SQL Server, Feature Selection, Feature Rules, Instance Configuration, Server Configuration (highlighted), Database Engine Configuration, Feature Configuration Rules, Ready to Install, Installation Progress, and Complete.

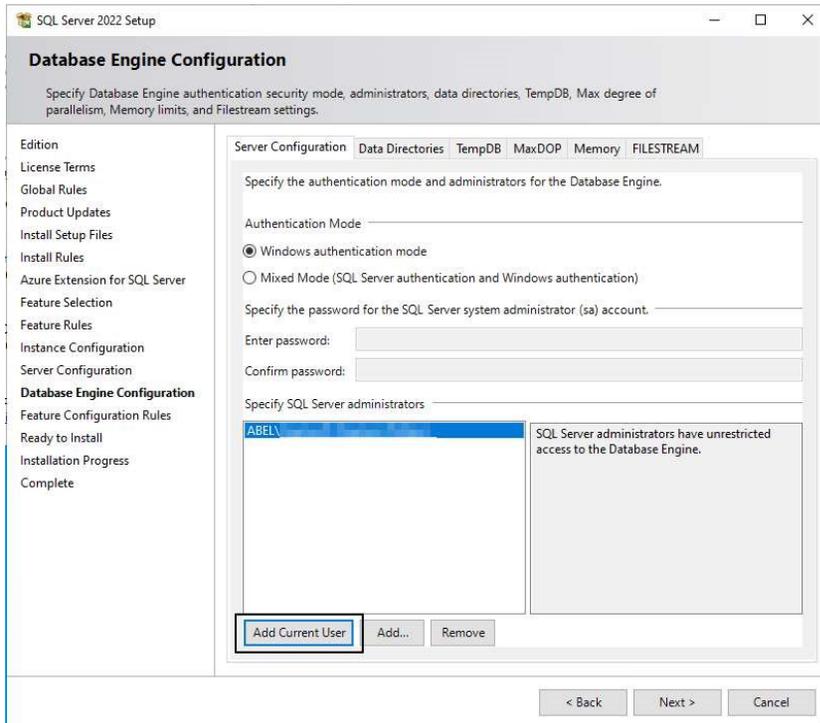
The main area has two tabs: 'Service Accounts' (selected) and 'Collation'. Below the tabs, it says 'Microsoft recommends that you use a separate account for each SQL Server service.'

Service	Account Name	Password	Startup Type
SQL Server Agent	network service		Automatic
SQL Server Database Engine	NT Service\MSSQLSERVER		Automatic
SQL Server Integration Services 16.0	NT Service\MsDtsServer...		Automatic
SQL Server Browser	NT AUTHORITY\LOCAL ...		Disabled

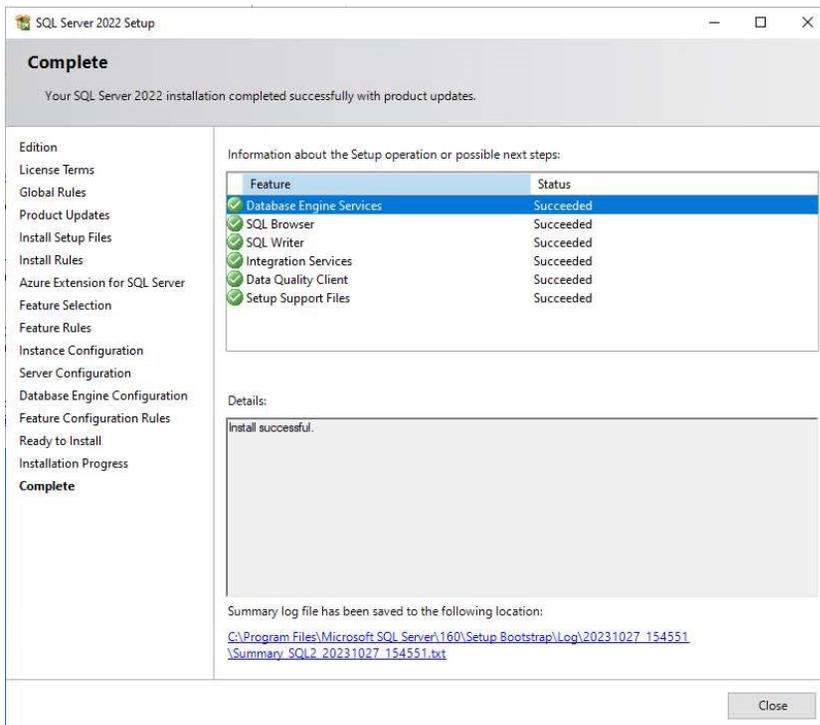
Below the table, there is a checkbox 'Grant Perform Volume Maintenance Tasks privilege to SQL Server Database Engine Service' which is checked. Below this, there is a note: 'This privilege enables instant file initialization by avoiding zeroing of data pages. This may lead to information disclosure by allowing deleted content to be accessed.' and a link 'Click here for details'.

At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

Click **“Add Current User”** to put the current account into the SQL Server Administrators group. Add any other accounts you want to have sysadmin SQL access.



If you have done everything correctly you should see this



install SQL Management Studio SSMS

Download and install SQL Management Studio

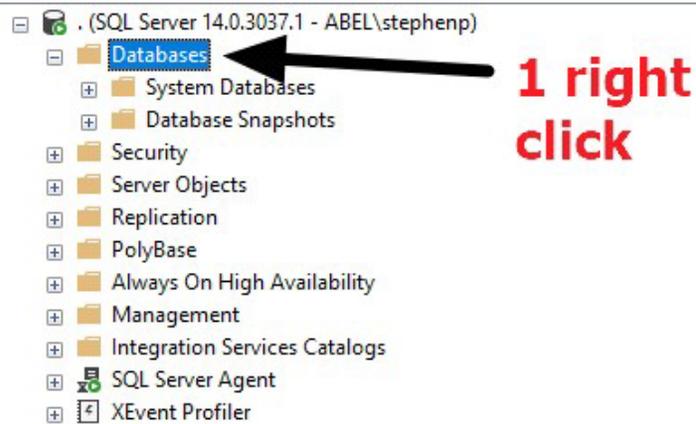
<https://learn.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-ver16>

IMPORTANT NOTE:

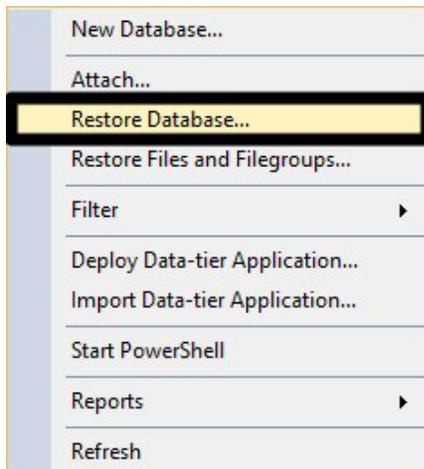
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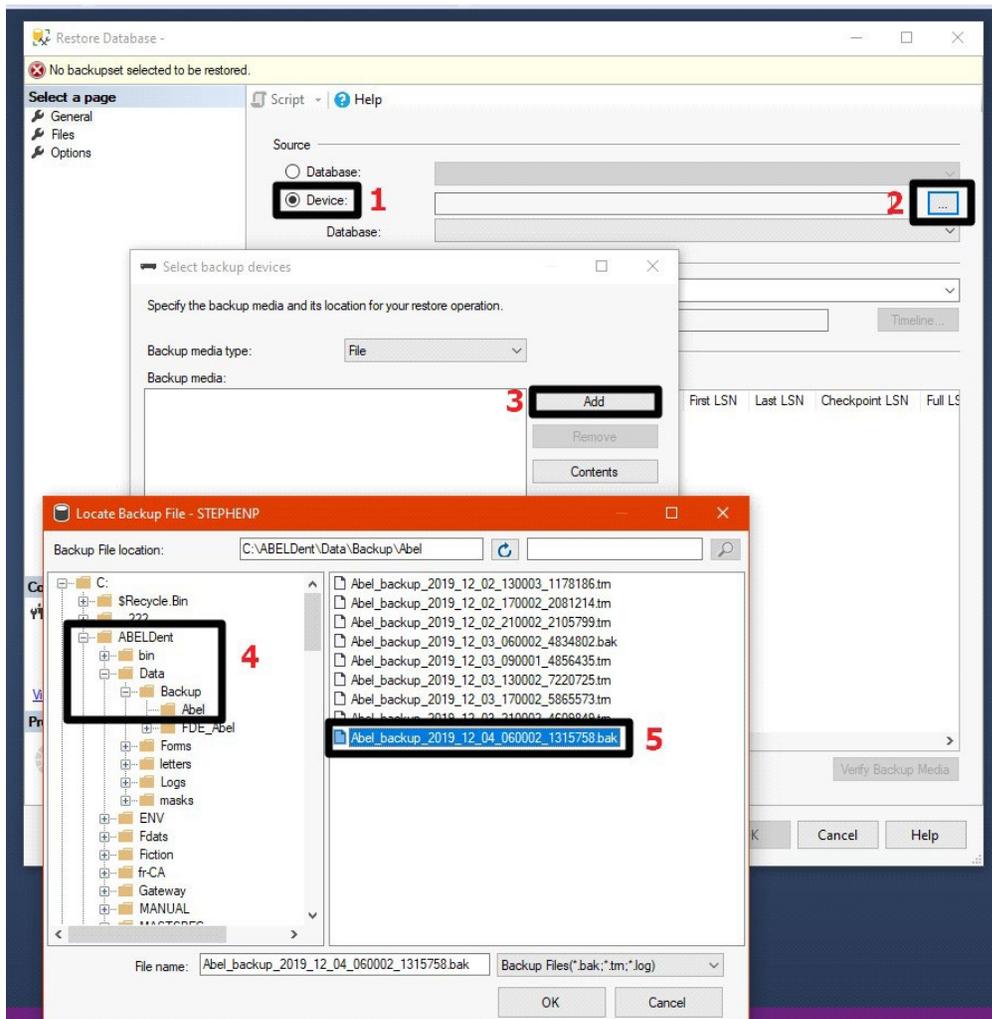
Restoring database

Open SQL management studio and Connect to the sql server
Right click on “databases”

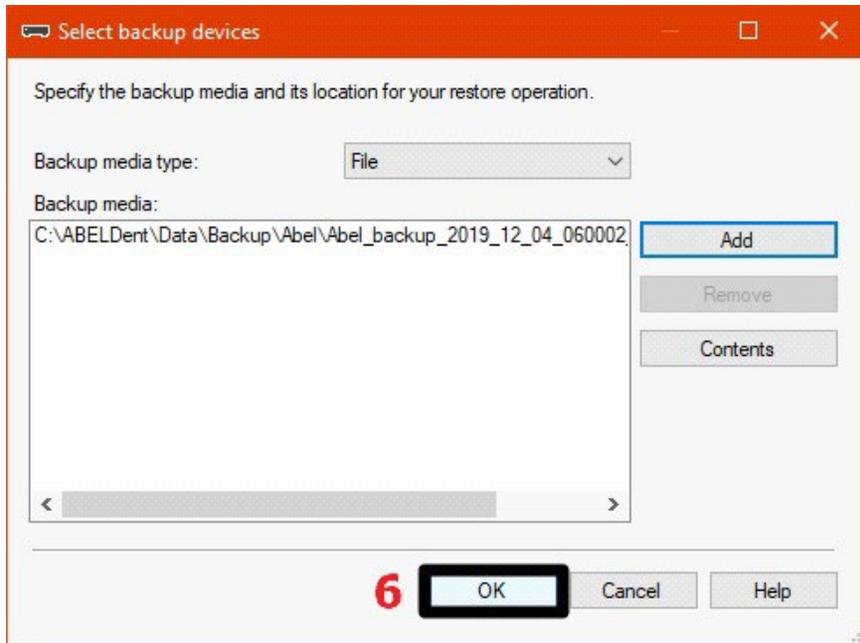


Select “restore database”

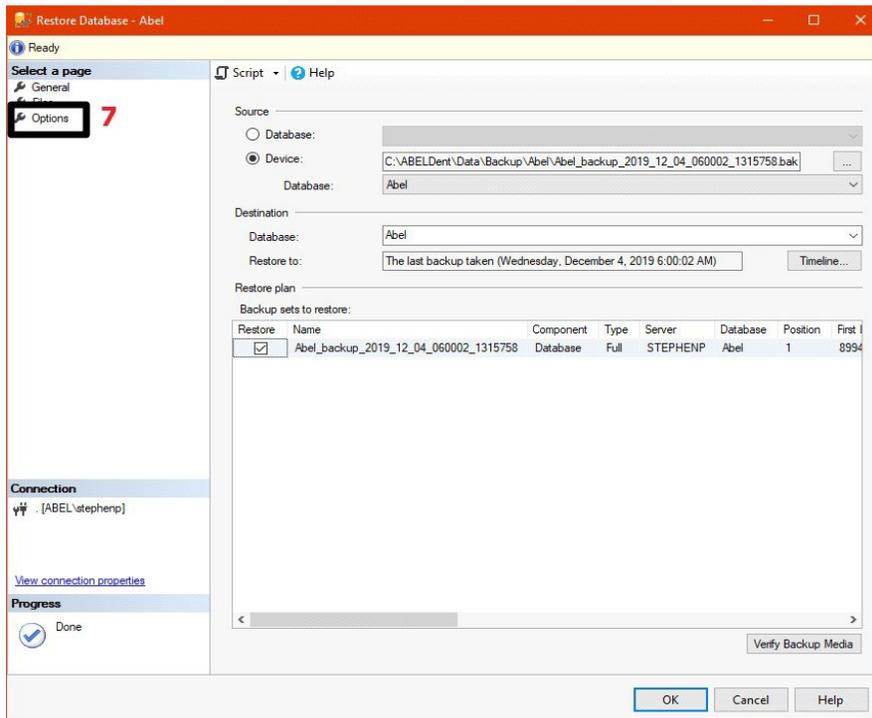




1. Select source from device
2. Click the box with 3 dots
3. Click **“add”** in select backup devices
4. Navigate to restore folder where BAK resides
5. Select desired restore point
6. Click **“OK”**



6. Click "OK"
7. Click "Options"



8. Click "overwrite the existing database (with replace)"
- NOTE *** make sure take tail-log backup before restore is UNCHECKED *****
9. Click "OK"

Restore options

Overwrite the existing database (WITH REPLACE) **8**

Preserve the replication settings (WITH KEEP_REPLICATION)

Restrict access to the restored database (WITH RESTRICTED_USER)

Recovery state: RESTORE WITH RECOVERY

Standby file: C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL

Leave the database ready to use by rolling back uncommitted transactions. Additional transaction logs cannot be restored.

Tail-log backup

Take tail-log backup before restore **make sure this is unchecked**

Leave source database in the restoring state (WITH NORECOVERY)

Backup file: C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL

Server connections

Close existing connections to destination database

Prompt

Prompt before restoring each backup

 The Full-Text Upgrade server property controls whether full-text indexes are imported, rebuilt, or reset for the restored database.

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