

JOBSHEET

PRAKTIKUM BASIS DATA LANJUT

Jurusan Teknologi Informasi
POLITEKNIK NEGERI MALANG
TAHUN AJARAN 2024/2025



Week 1

SQL SERVER – INSTALASI SQL SERVER

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Information Technology Department, Malang State Polytechnic

Jobsheet- 1 : SQL Server Installation

Advanced Database Course

Supervisor: Advanced Database Teaching Team

August 2024

SAFRIZAL RAHMAN_2G_SIB

Topics

1. SQL Server Installation

Objective

Students are expected to be able to:

1. Understand the basic concepts in database management, including what SQL Server is , its function in database management, and its role in software applications.
2. Understanding how to create *a database* from an existing SQL file
3. Understand how to execute part or all of a SQL *script* from an existing file.

General Instructions

1. Follow the steps in the practical sections in the order given.
2. Answer all questions marked **[Question-X]** that are found in certain steps in each part of the practicum.
3. In each step of the practicum, there is an explanation that will help you answer the questions in instruction number 3, so read and do all the practicum parts in this jobsheet.
4. Write the answers to the questions in the instructions number 3 in a report that is done using a word processing application (Word, OpenOffice, or other similar). Export as a **PDF file** with the following name format:
 - **BDL_Class_03_YourFullName .pdf**
 - Collect the PDF files as a practical report to the supervising lecturer.
 - In addition to the file name, also include your identity on the first page of the report.



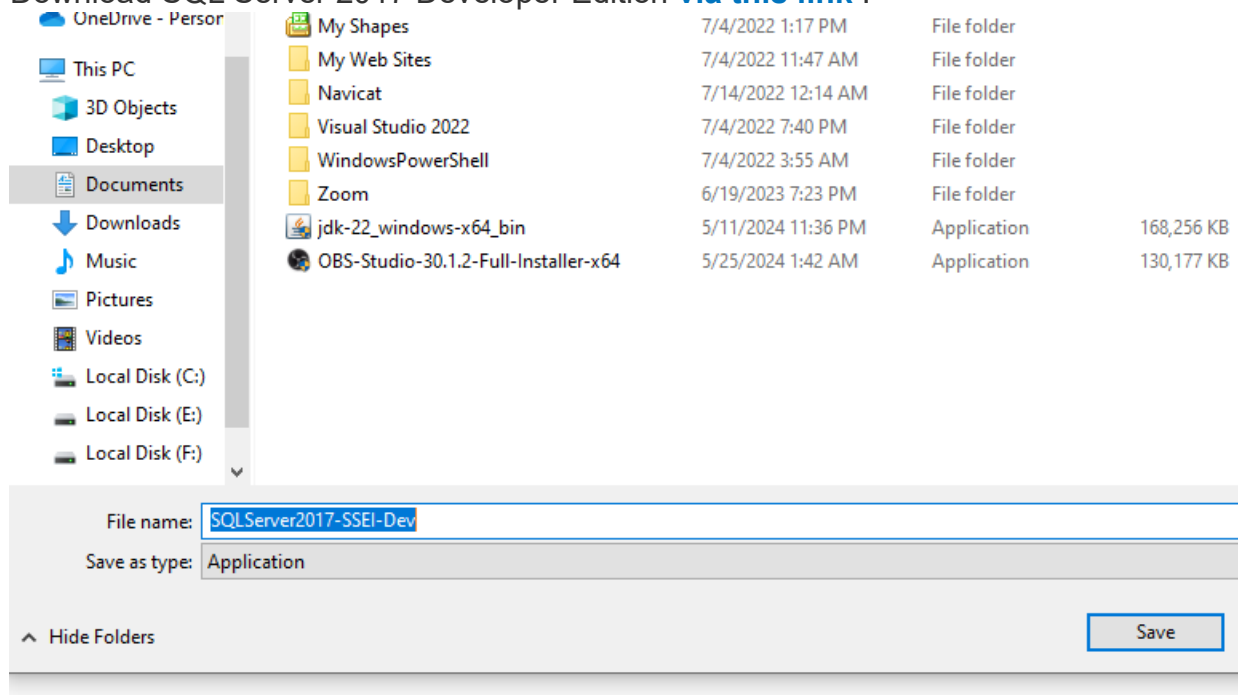
Practical: SQL Server Installation

SQL Server Functions

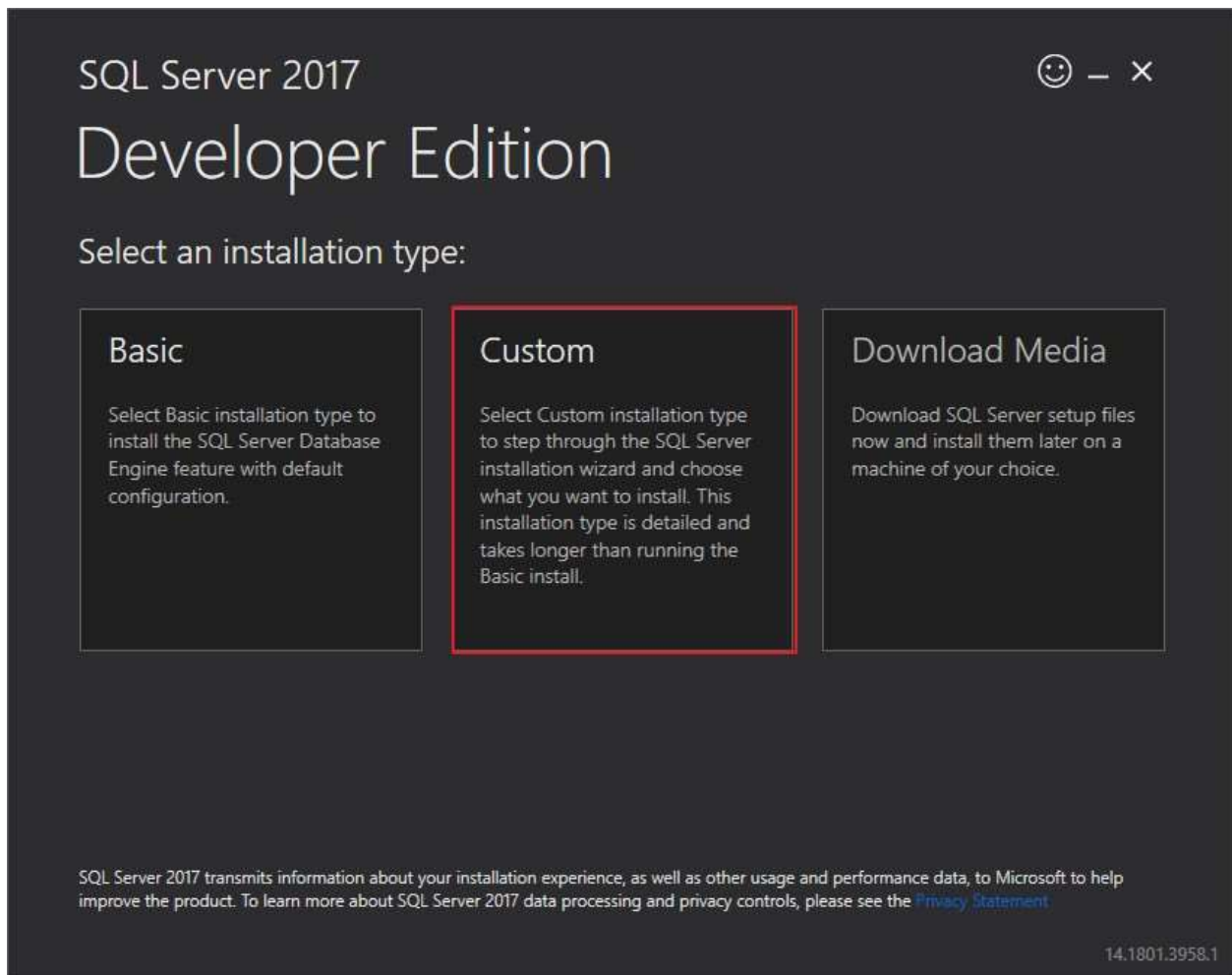
SQL Server is a standard database programming language that has rational data management, so don't be surprised if almost all host servers use SQL more than other programs.

How to Completely Install SQL Server

1. First of all, you have to download the SQL Server installer first. Here I am still using SQL Server 2017 Developer version. In addition to being free, its features are also quite complete. Download SQL Server 2017 Developer Edition [via this link](#) .



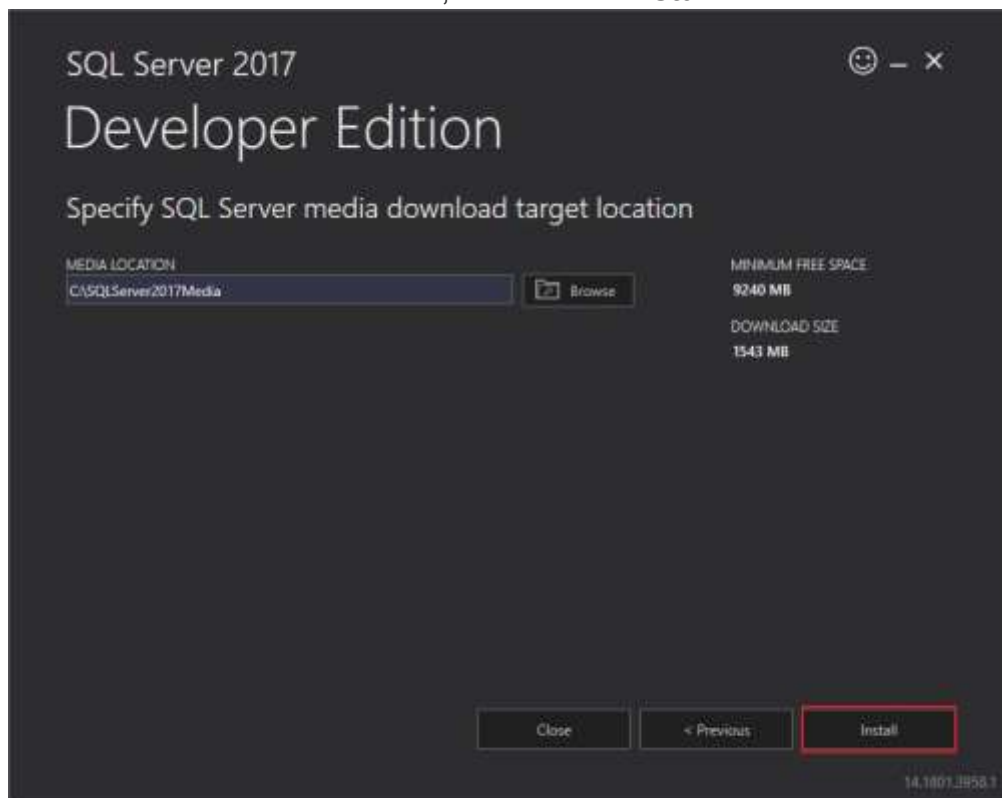
2. In the initial installation window, select **Custom** .

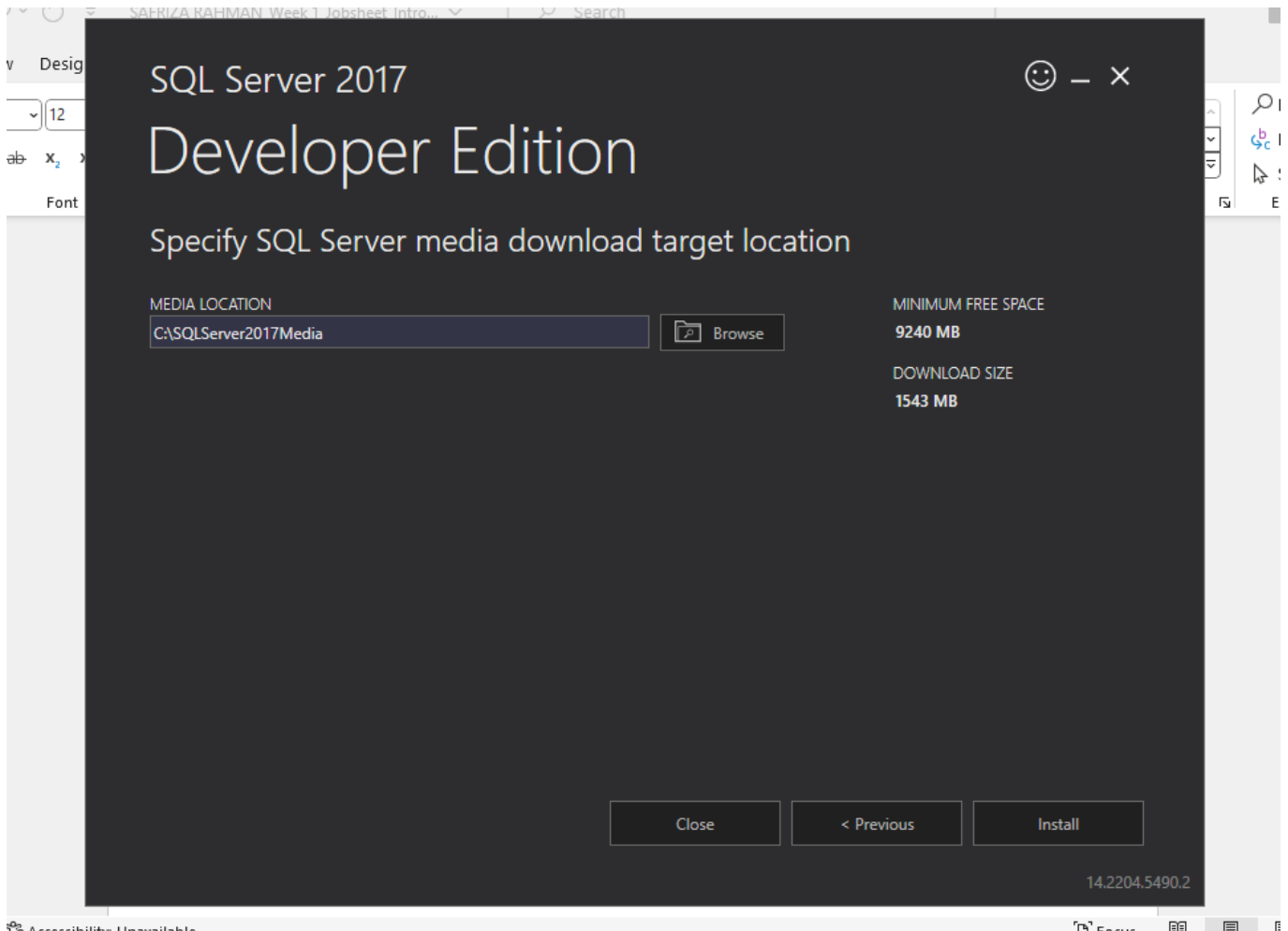




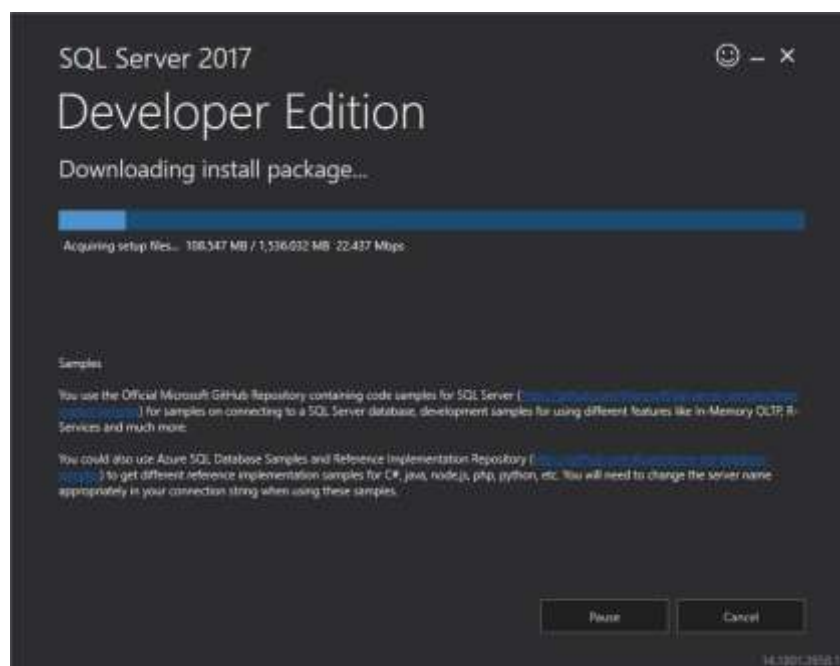


3. Leave the installation location as default, then select **Install** .





4. SQL Server will download some packages and files needed. This process requires an internet connection and is quite long because the downloaded files are more than 1GB. Therefore, it is recommended to connect to a WiFi network.

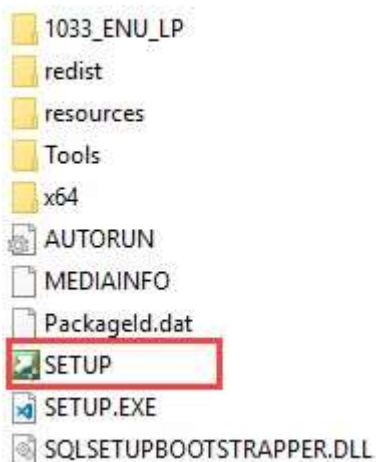


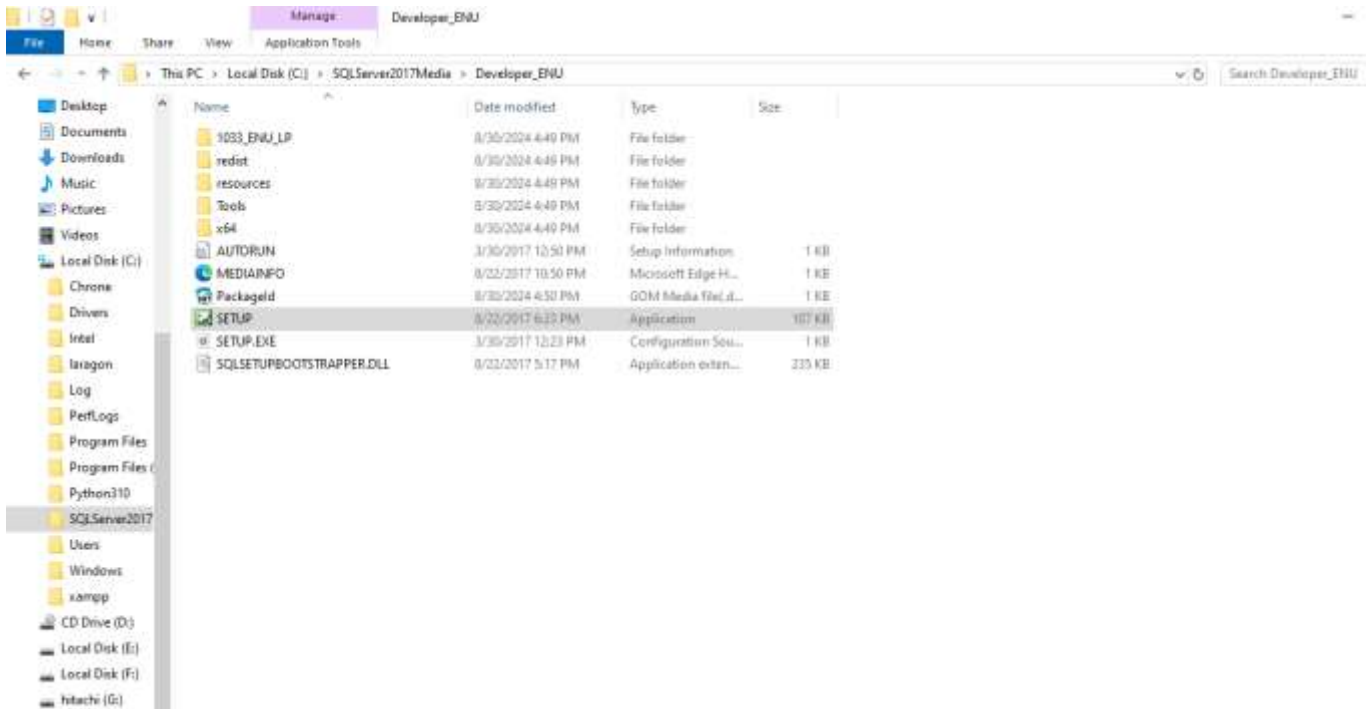


5. If the downloading process is complete. Enter to

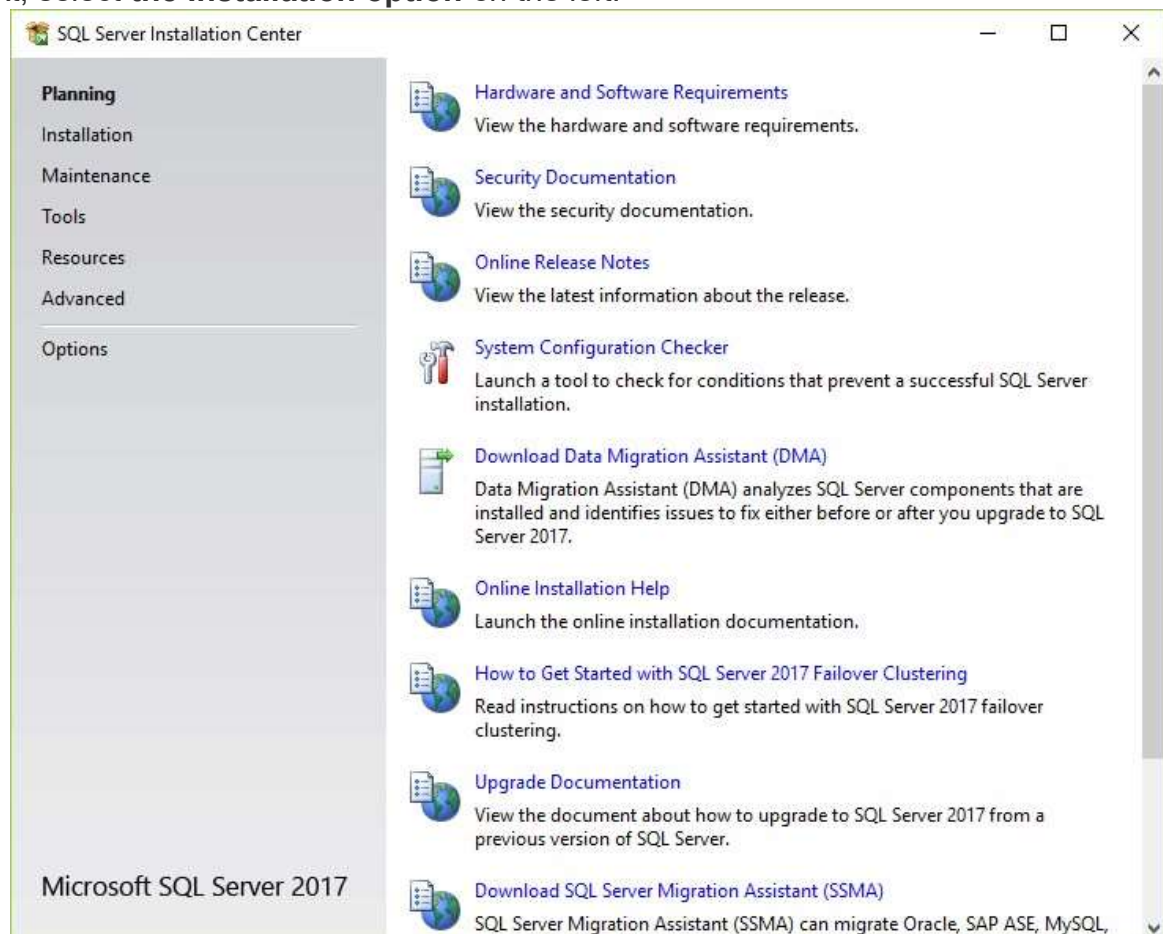
folder **C:\SQL2017\Developer_ENU** then **click 2X SETUP** .

C > Local Disk (C:) > SQLServer2017Media > Developer_ENU >

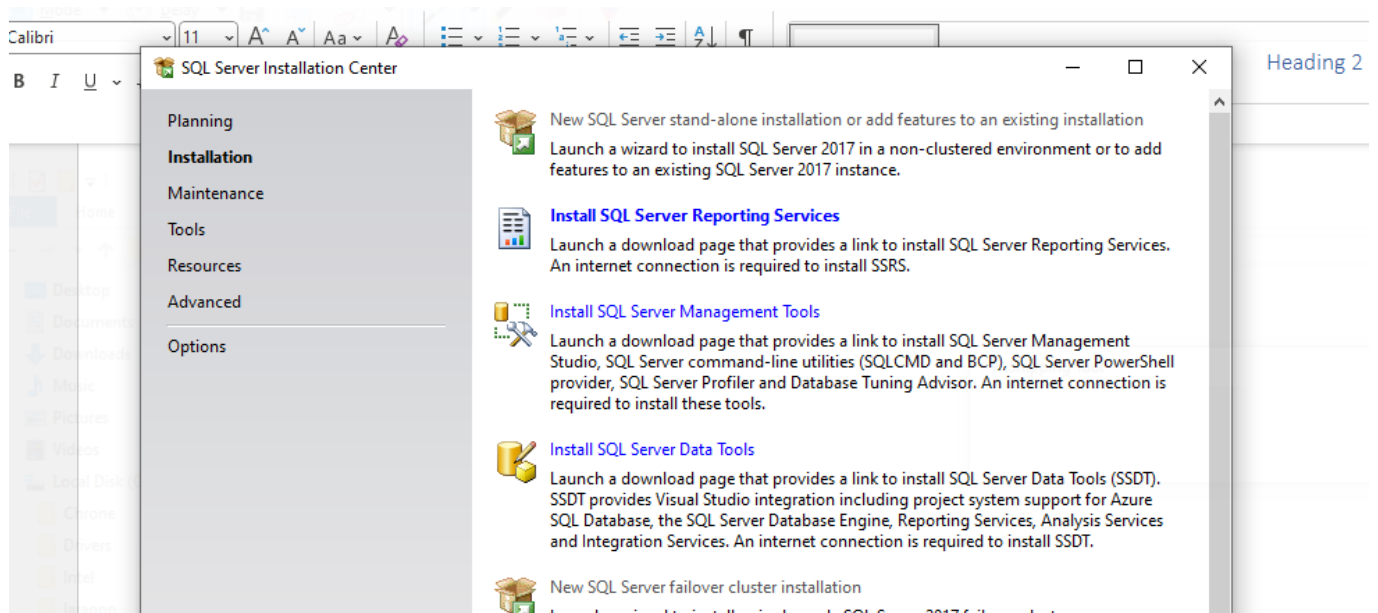
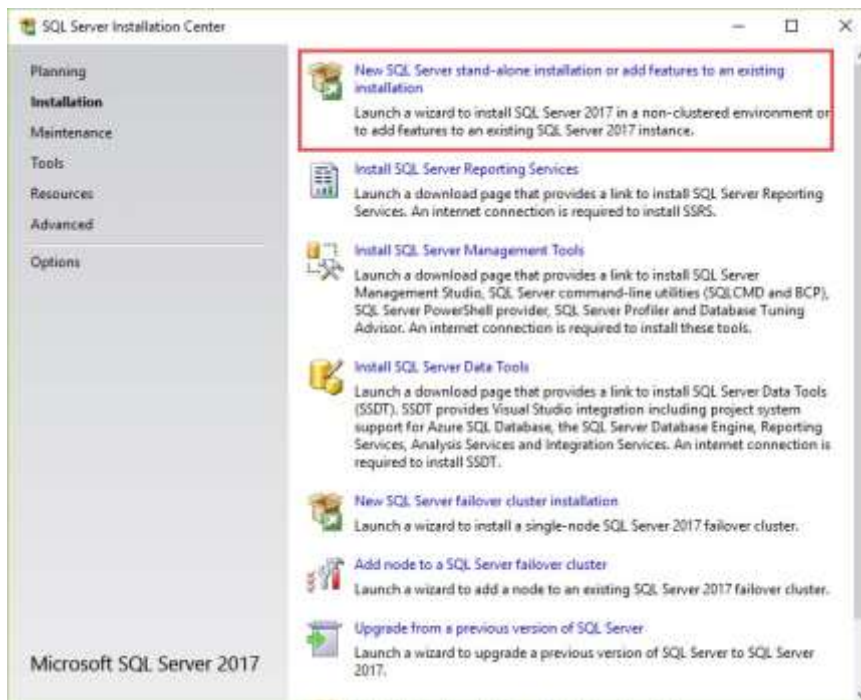




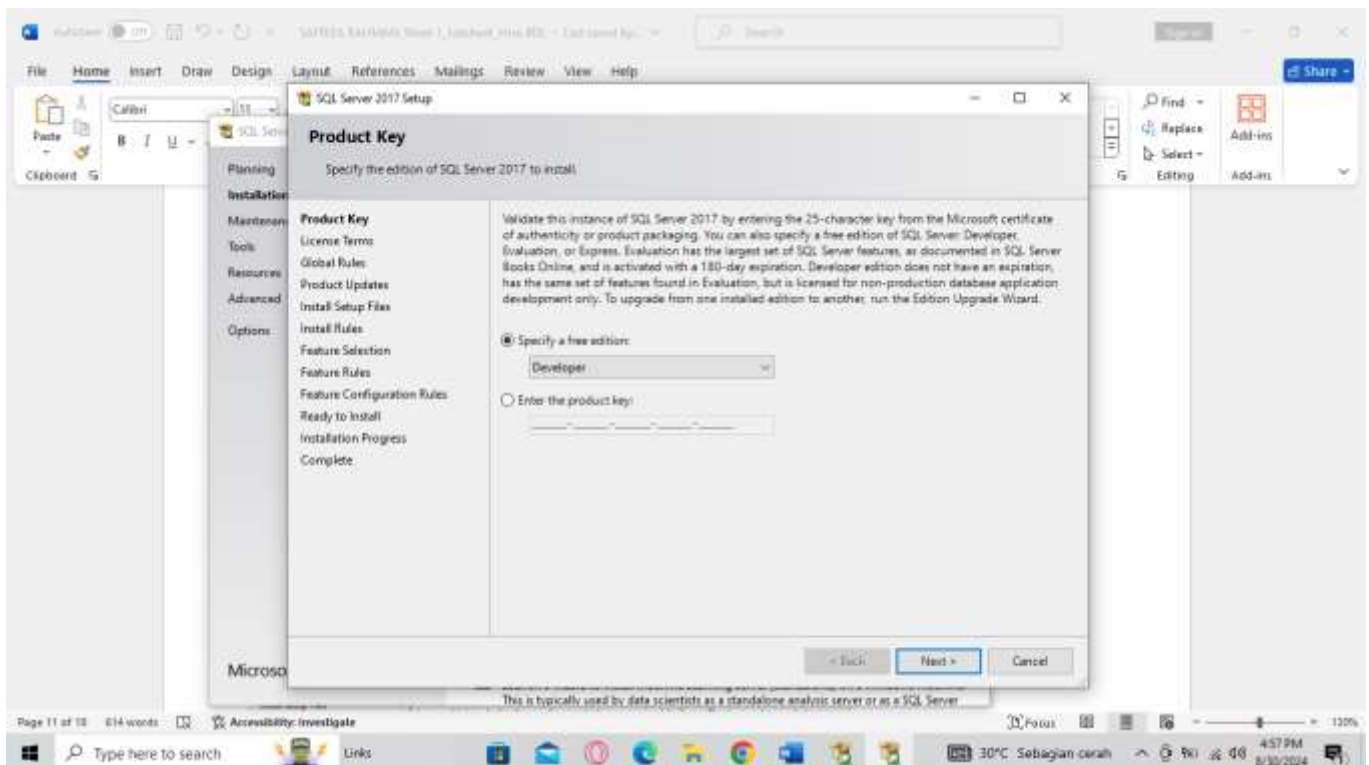
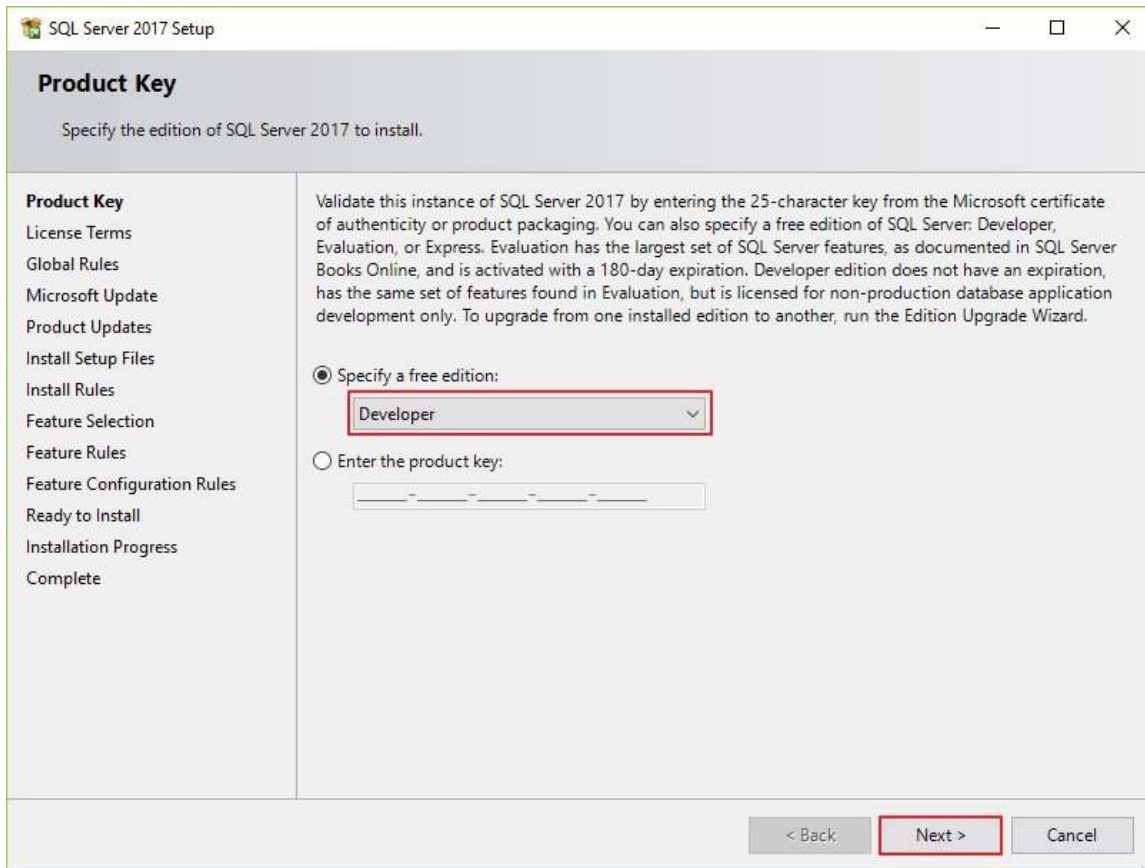
6. Next, select **the Installation option** on the left.



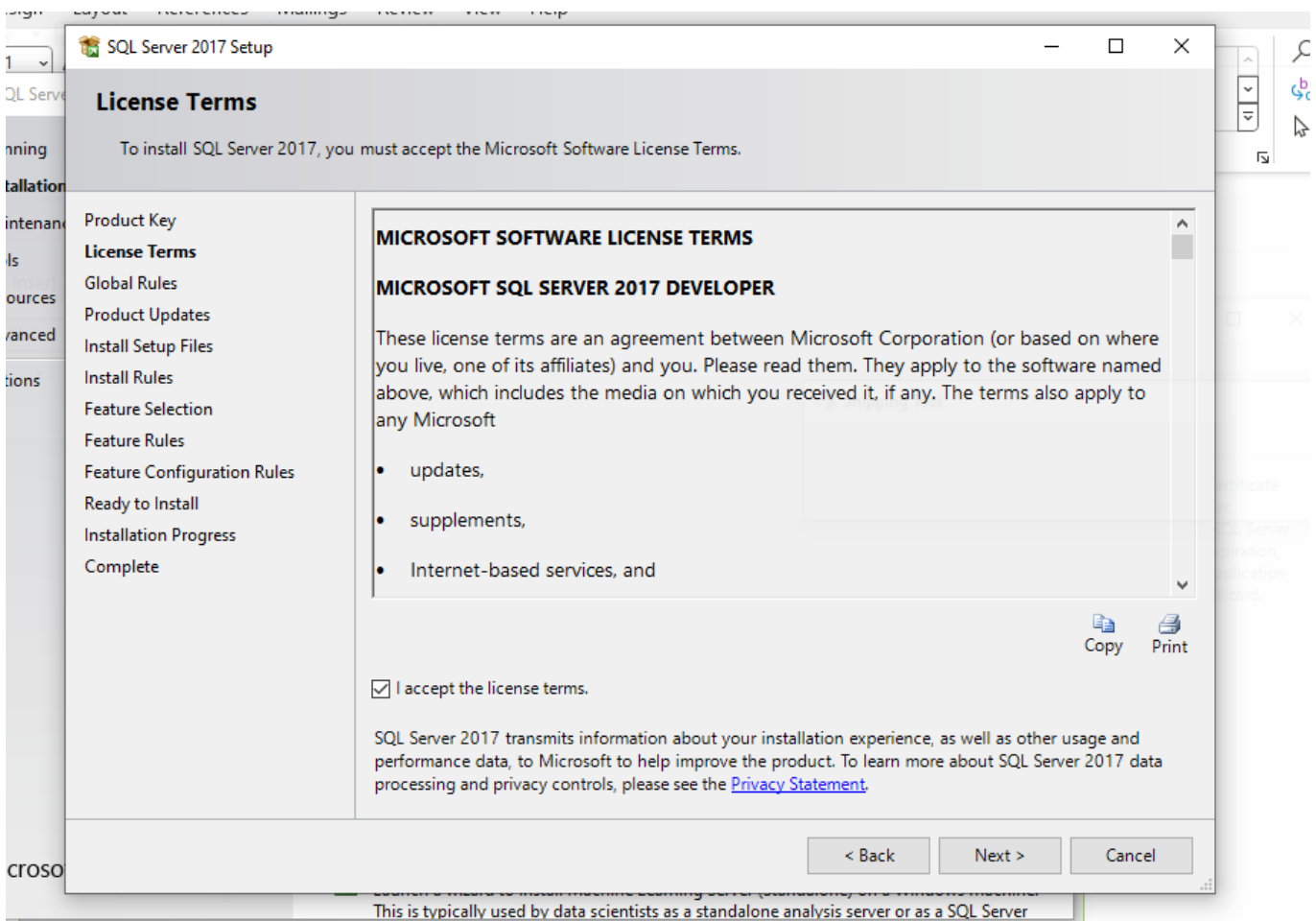
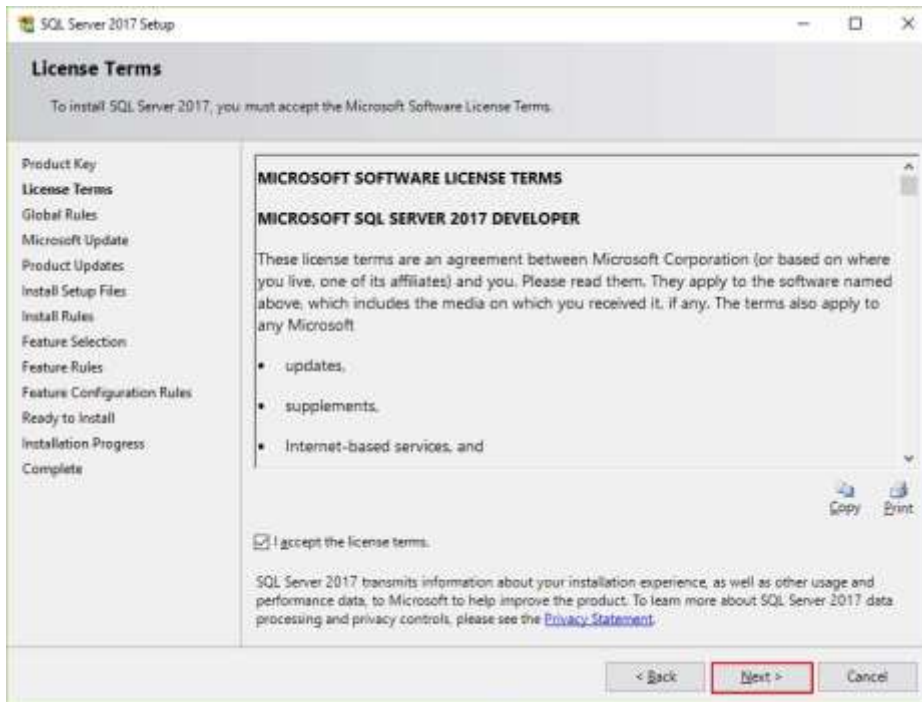
7. Next, select the option marked with a red box.



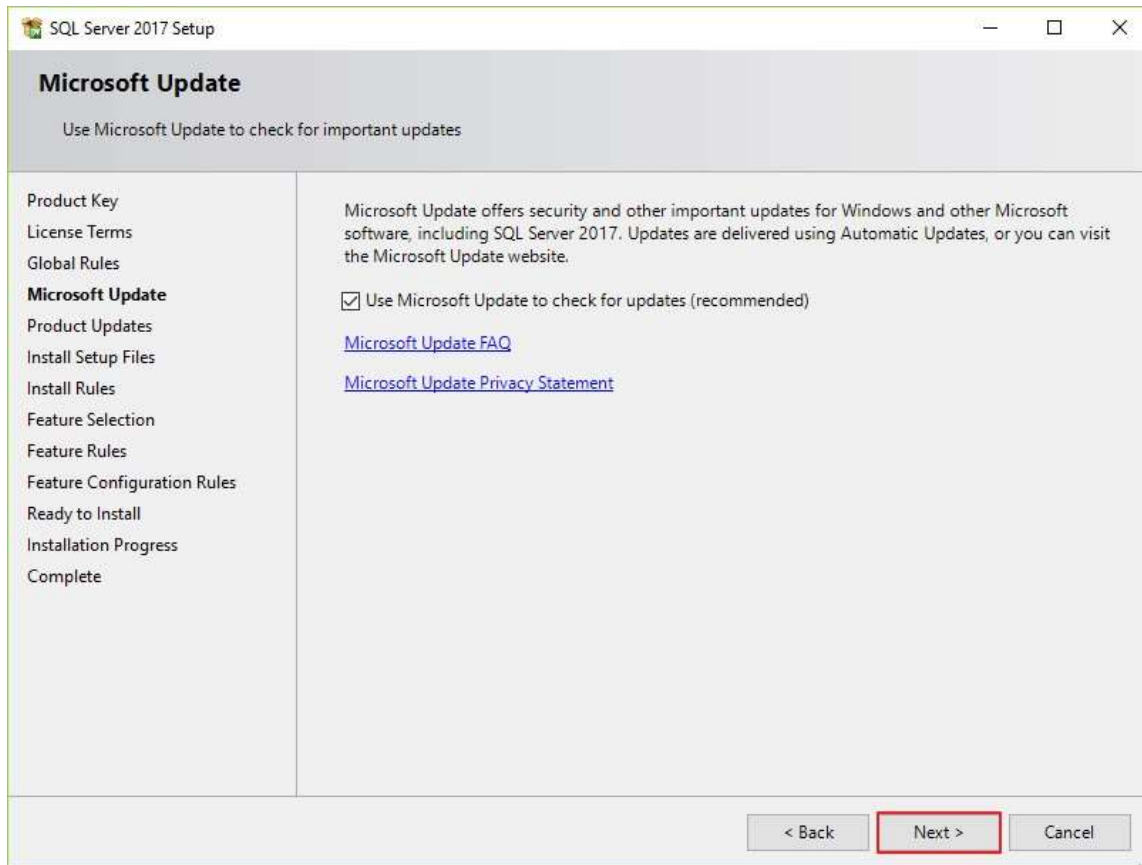
8. Select **Developer** .



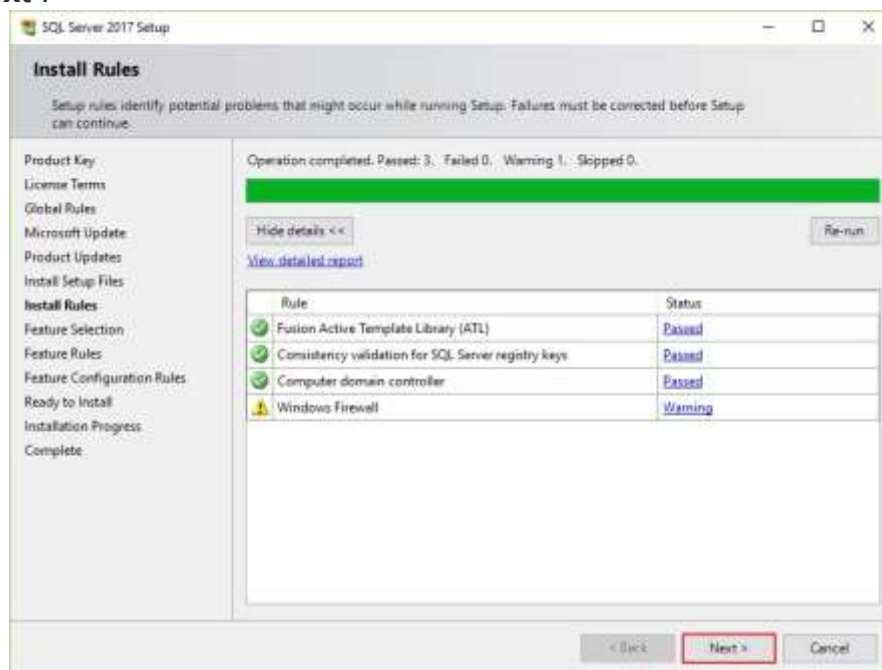
9. Check the *I accept the license terms* option then select **Next** .

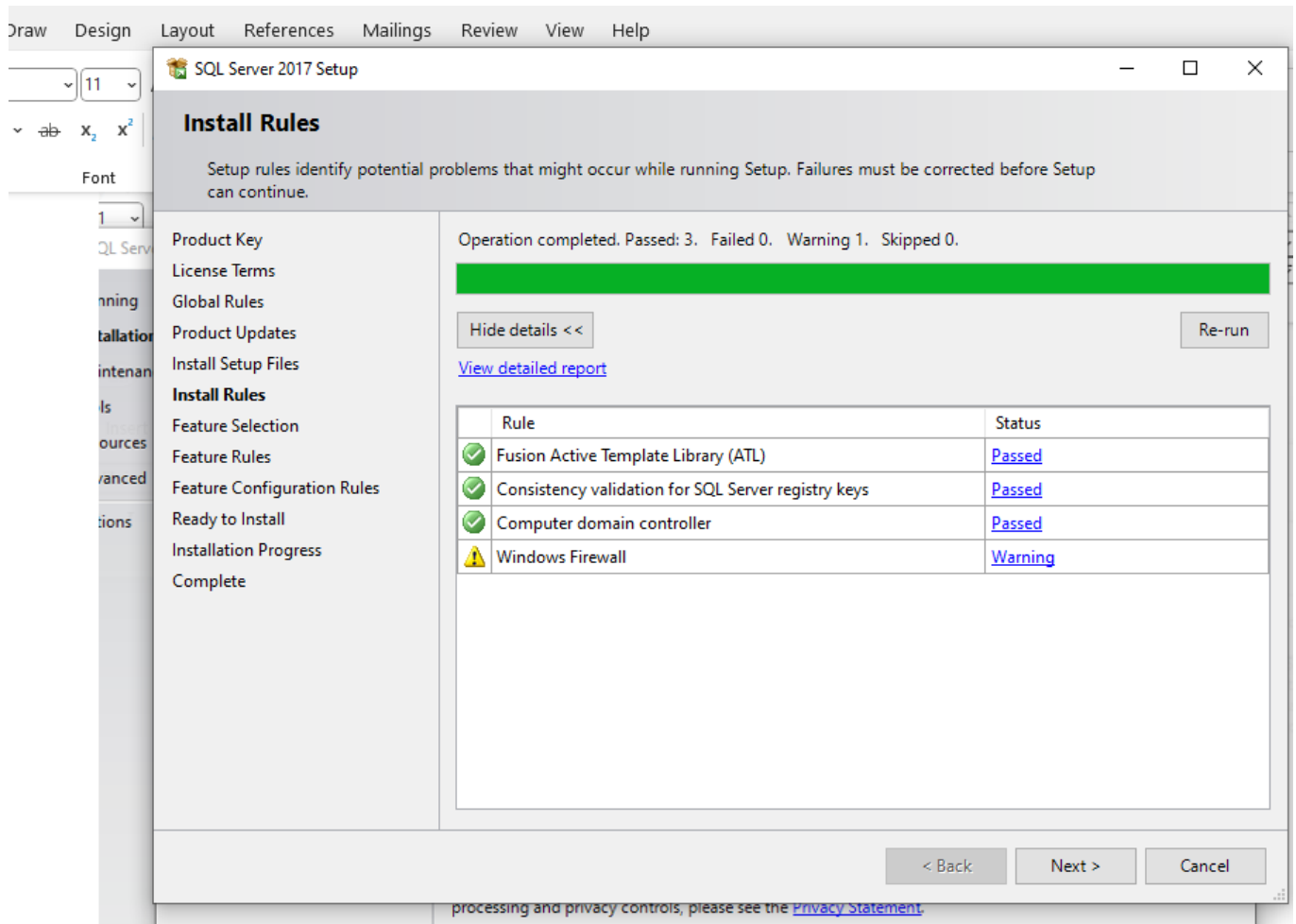


10. Select **Next** again.

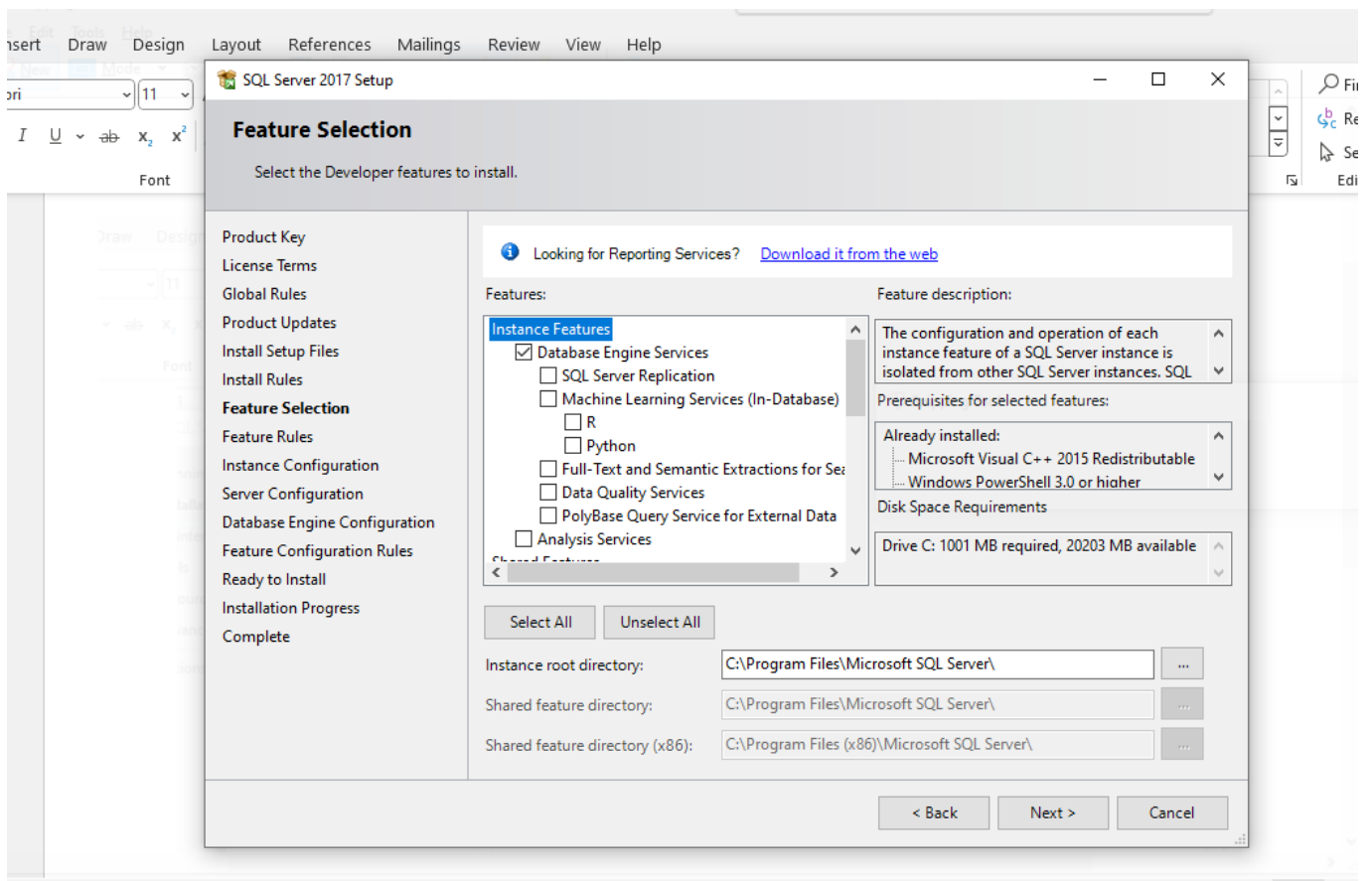
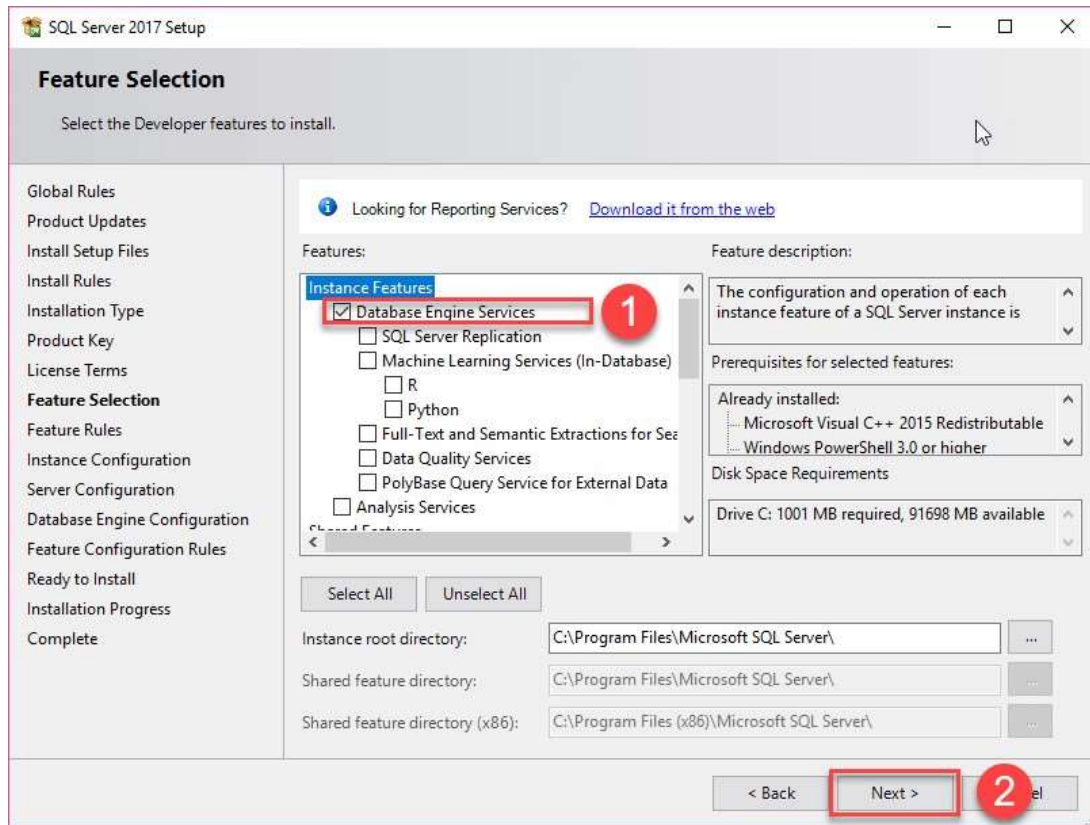


11. Make sure there are no failed rules. If there is still a warning, it doesn't matter. Continue by selecting **Next** .





12. Check **Database Engine Services** then select **Next** .





12. Give a name to your SQL Server. Then select **Next** .

SQL Server 2017 Setup

Instance Configuration

Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path.

Product Key
License Terms
Global Rules
Microsoft Update
Product Updates
Install Setup Files
Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

☒ Default instance
☐ Named instance: MSSQLSERVER

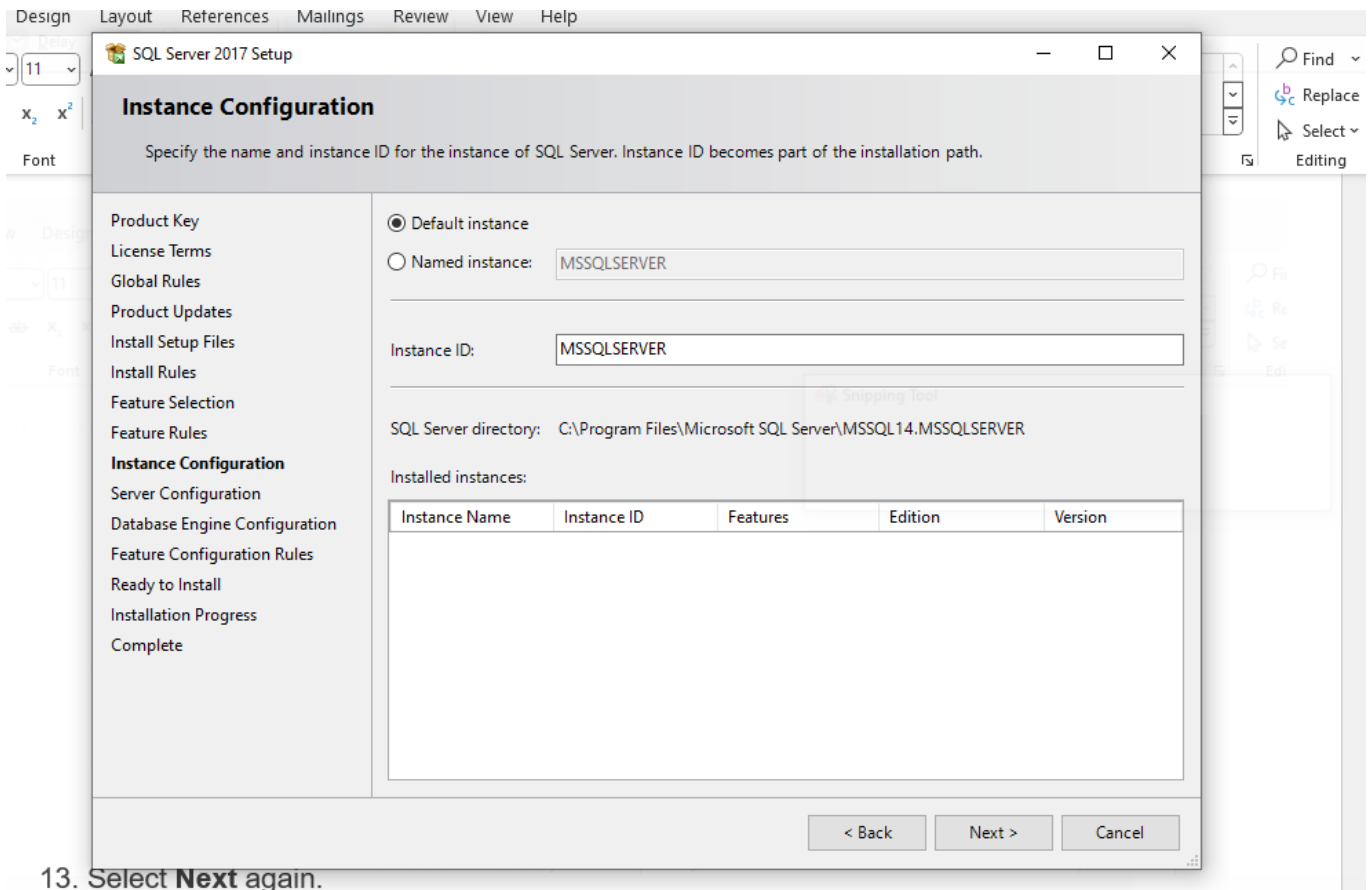
Instance ID: MSSQLSERVER

SQL Server directory: C:\Program Files\Microsoft SQL Server\MSSQL14.MSSQLSERVER

Installed instances:

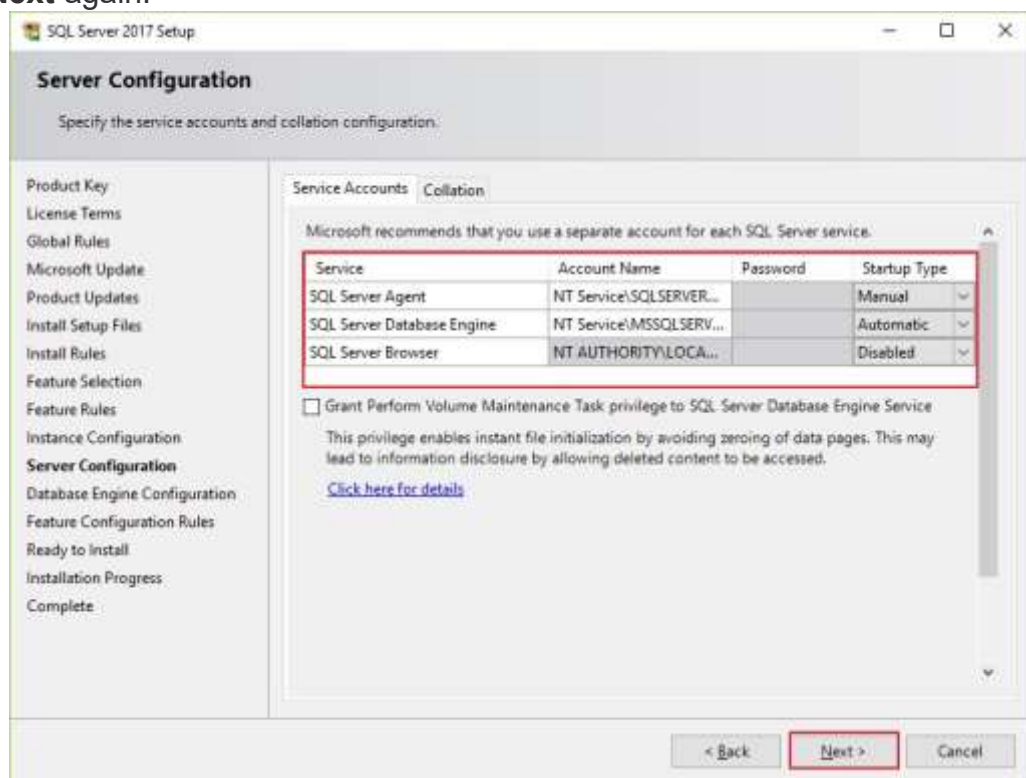
Instance Name	Instance ID	Features	Edition	Version
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< Back **Next >** Cancel



13. Select **Next** again.

13. Select **Next** again.





SQL Server 2017 Setup

Server Configuration

Specify the service accounts and collation configuration.

Product Key
License Terms
Global Rules
Product Updates
Install Setup Files
Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

Service Accounts Collation

Microsoft recommends that you use a separate account for each SQL Server service.

Service	Account Name	Password	Startup Type
SQL Server Agent	NT Service\SQLSERVERA...		Manual
SQL Server Database Engine	NT Service\MSSQLSERVER		Automatic
SQL Server Browser	NT AUTHORITY\LOCAL ...		Disabled

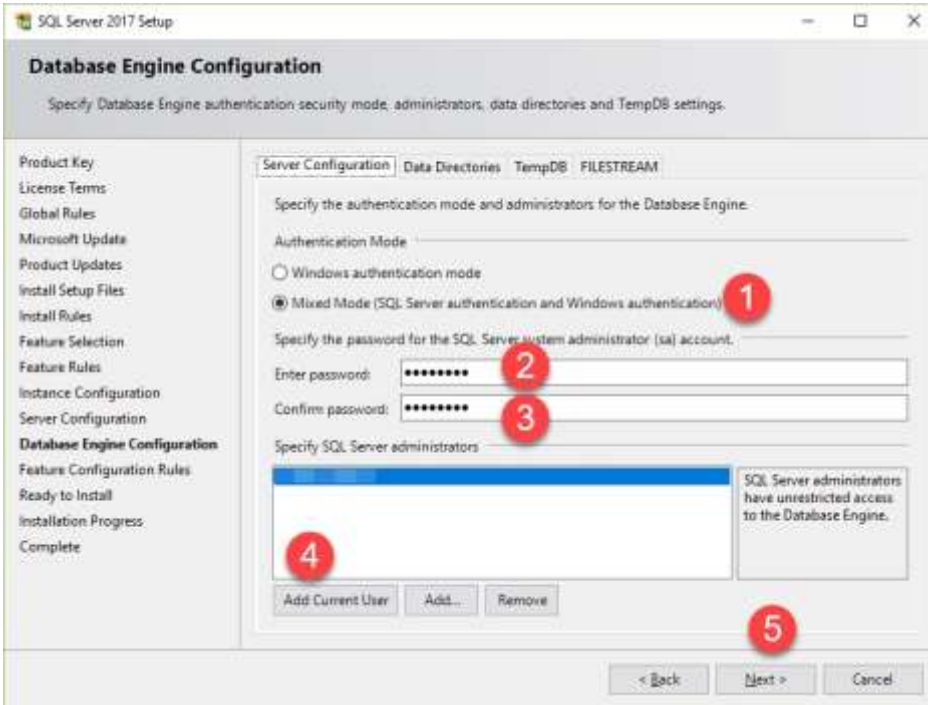
☐ Grant Perform Volume Maintenance Task privilege to SQL Server Database Engine Service

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.

[Click here for details](#)

< Back Next > Cancel

14. Select Mixed mode then give a strong but memorable password. Select **Add Current User** then select **Next**.



SQL Server 2017 Setup

Database Engine Configuration

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

Product Key
License Terms
Global Rules
Microsoft Update
Product Updates
Install Setup Files
Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Feature Configuration Rules
Ready to Install
Installation Progress
Complete

Server Configuration | Data Directories | TempDB | FILESTREAM

Specify the authentication mode and administrators for the Database Engine.

Authentication Mode

☐ Windows authentication mode

☒ Mixed Mode (SQL Server authentication and Windows authentication) 1

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

Enter password: 2

Confirm password: 3

Specify SQL Server administrators

4

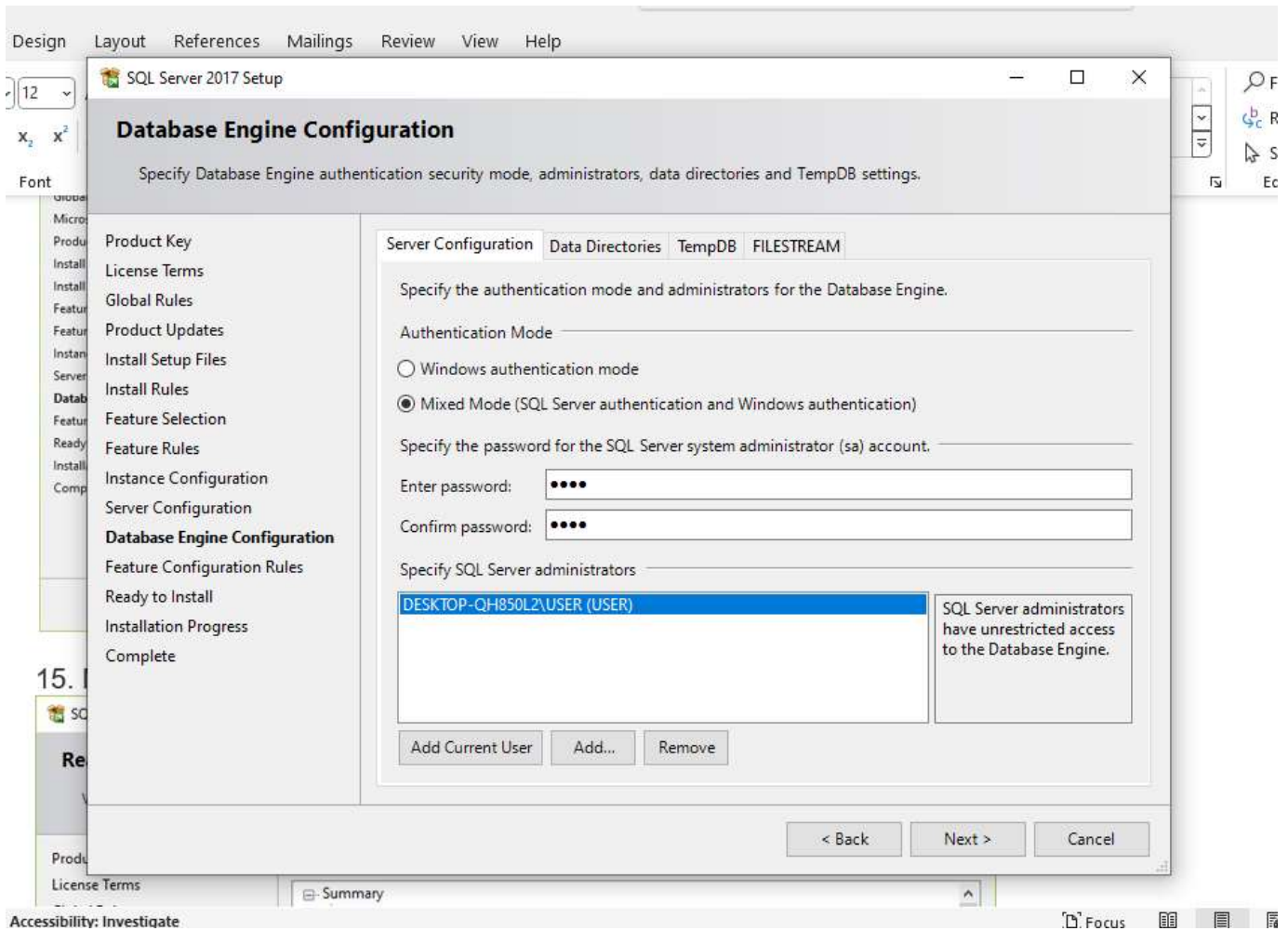
Add Current User Add... Remove

SQL Server administrators have unrestricted access to the Database Engine.

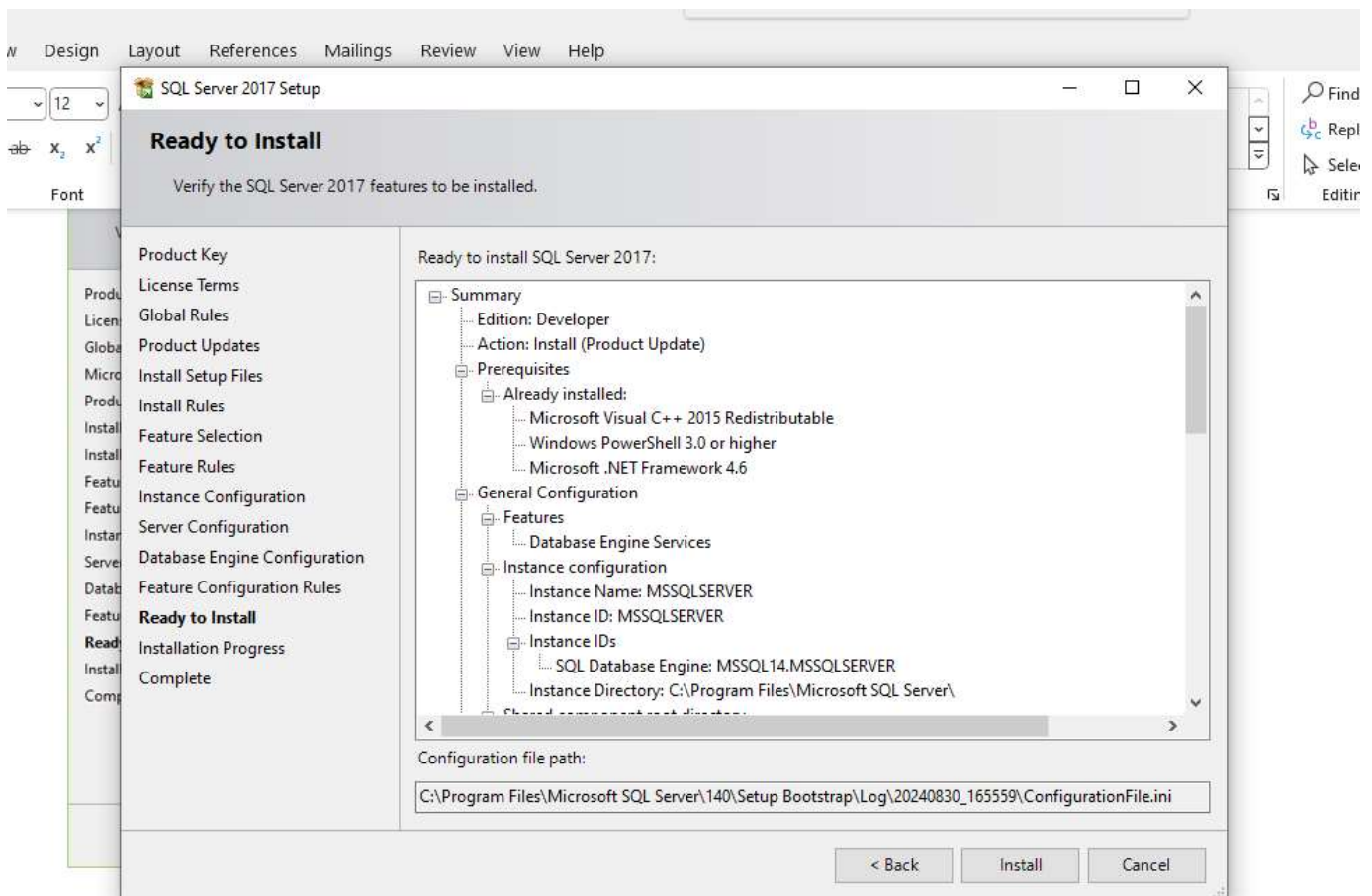
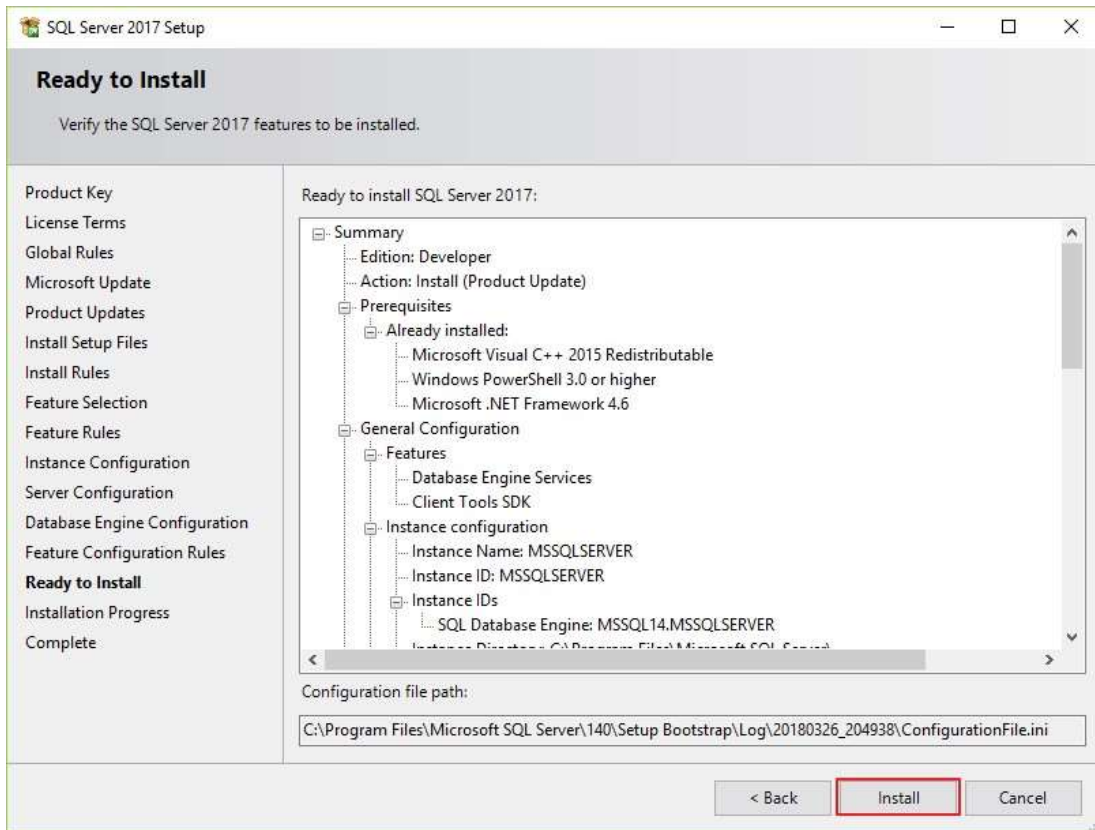
5

< Back Next > Cancel

1234

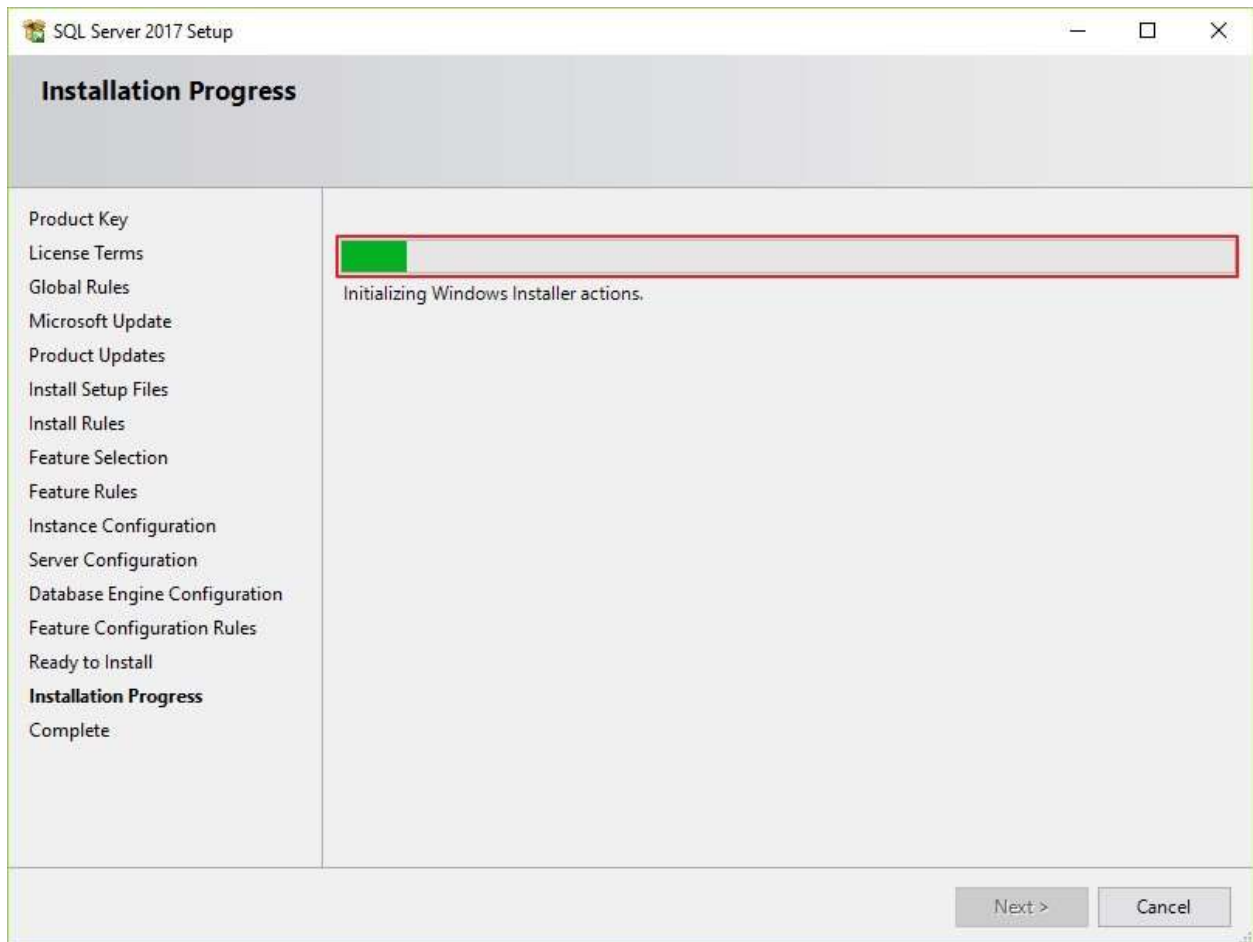


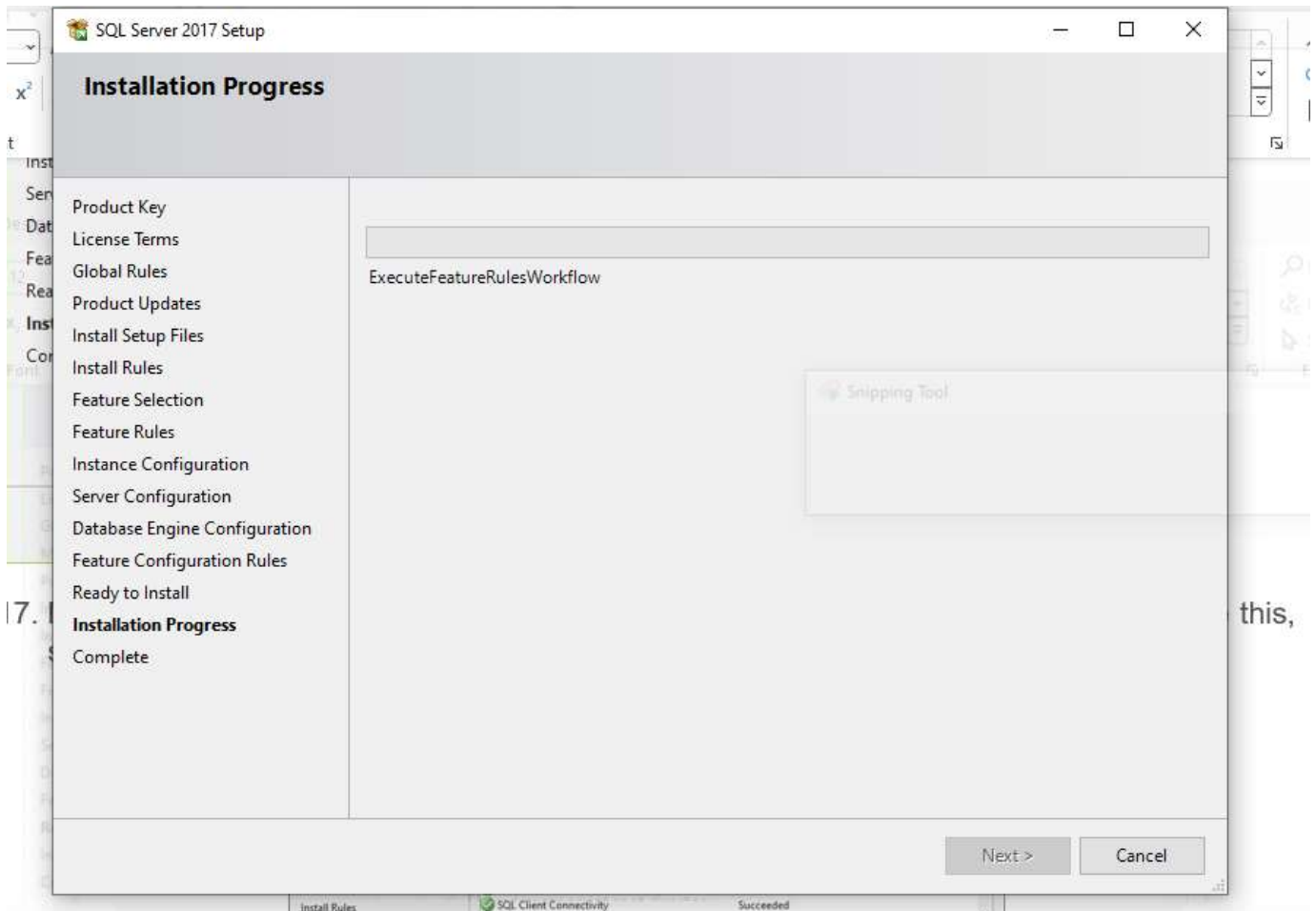
15. Next, select **Install** .



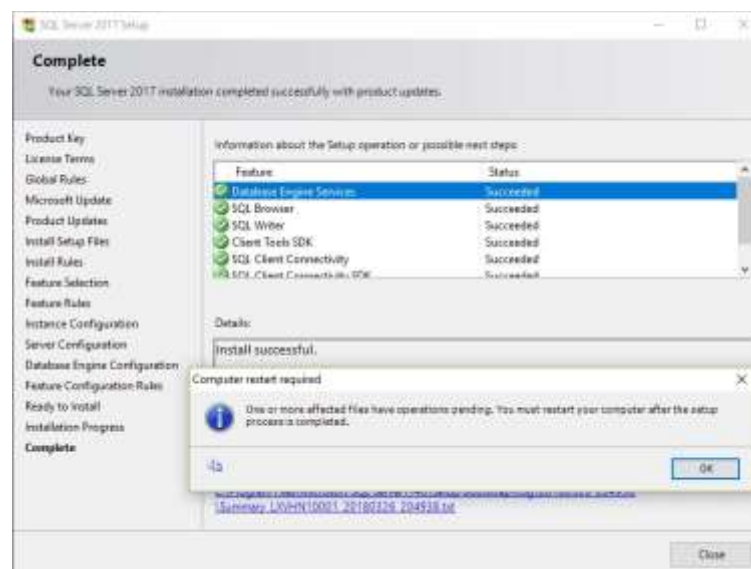


16. Wait for the installation process to complete.

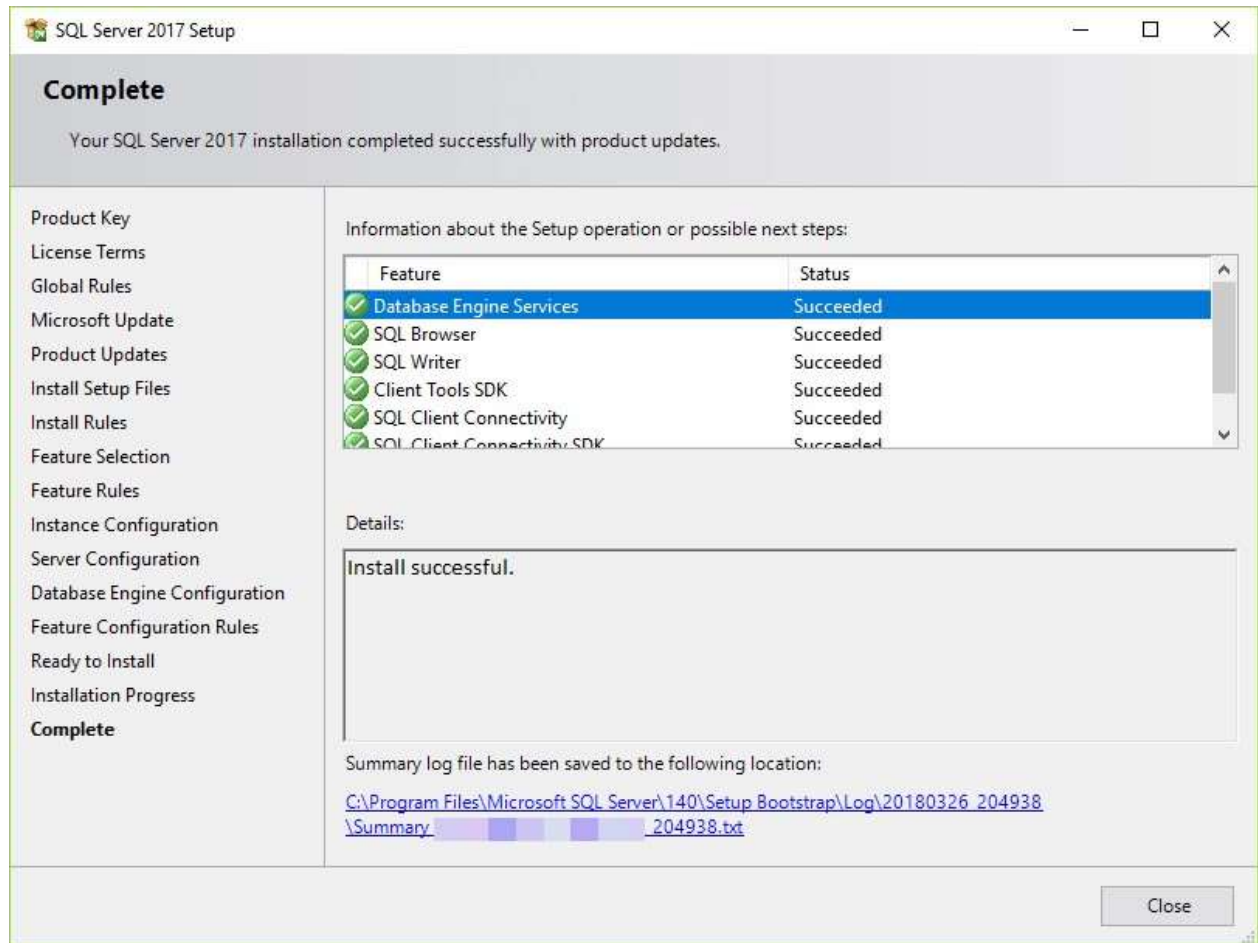


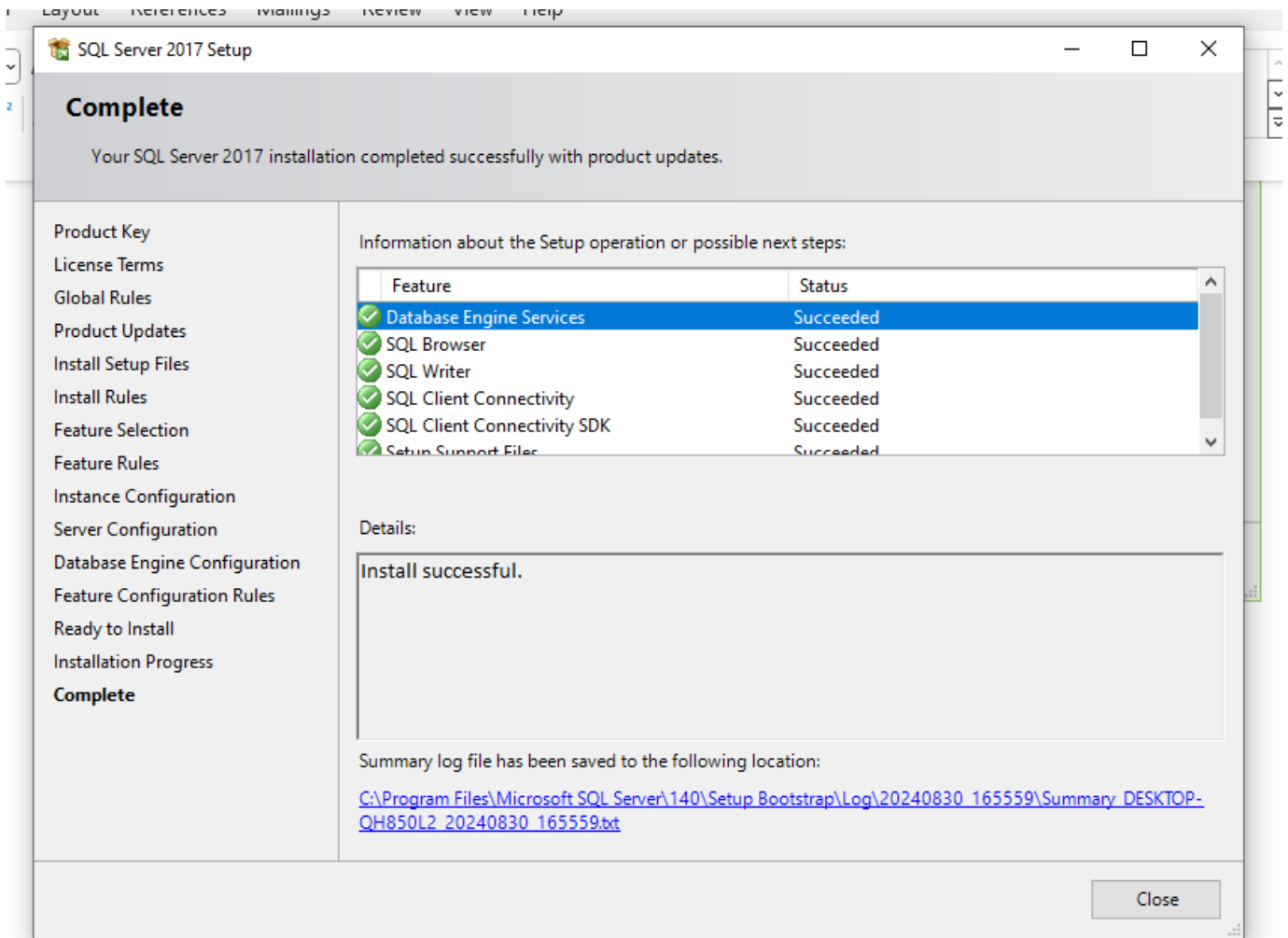


17. Make sure there are no error features in the status column. If you get a notification like this, select **OK**.



18. SQL Server installation was successful.





-- Have a great time doing it -