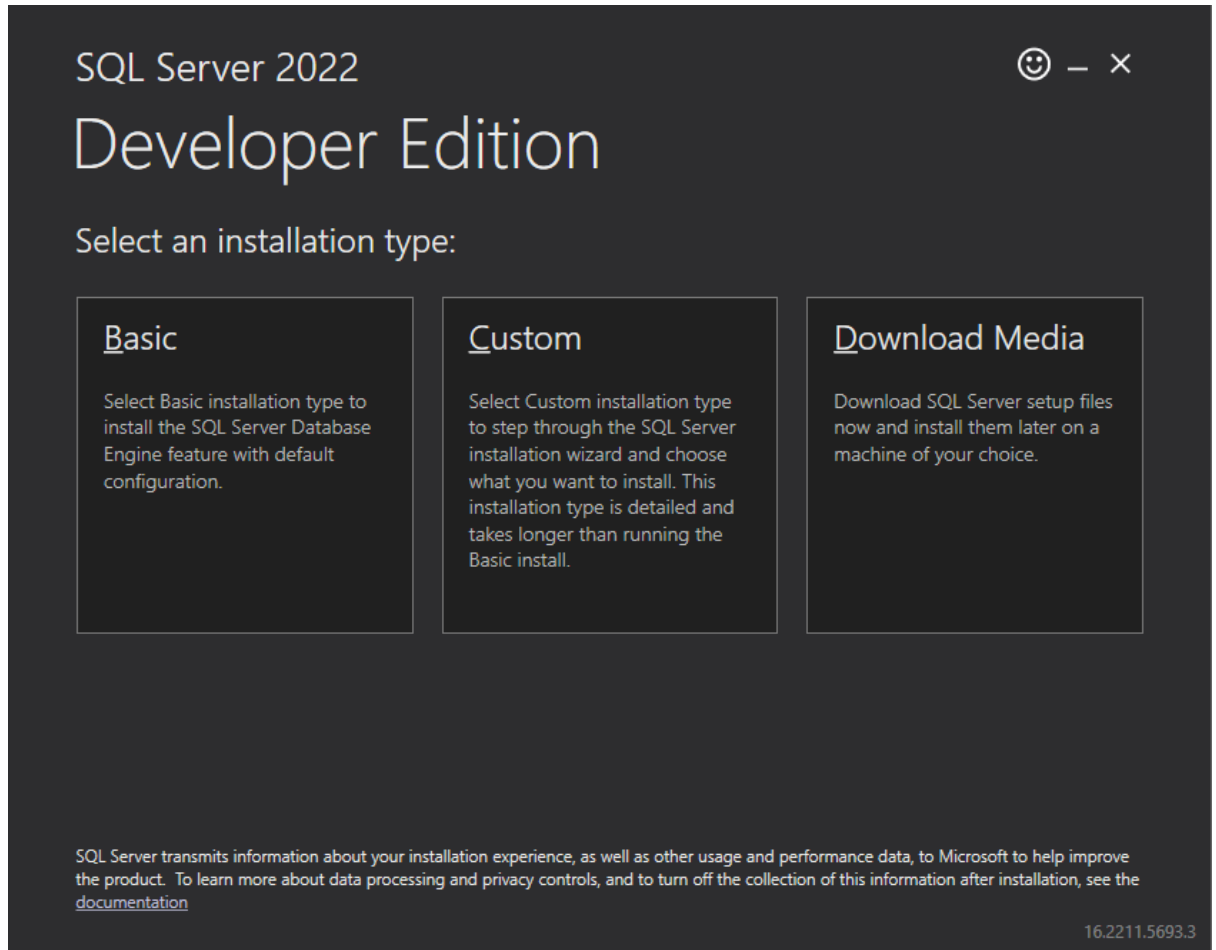


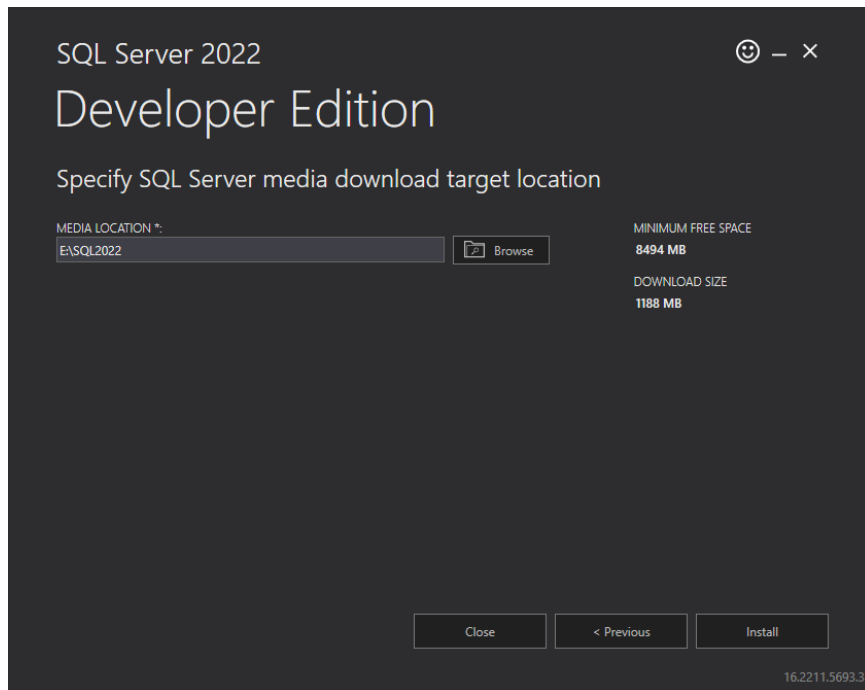
# SQL Server 2022 Installation Guide

## Step 1:

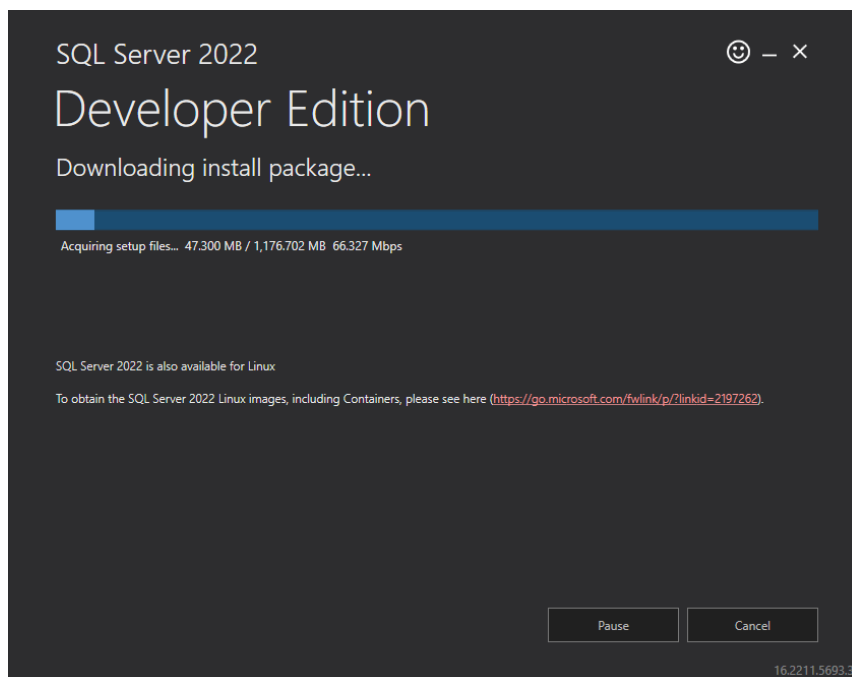


We shall be choosing Custom Installation

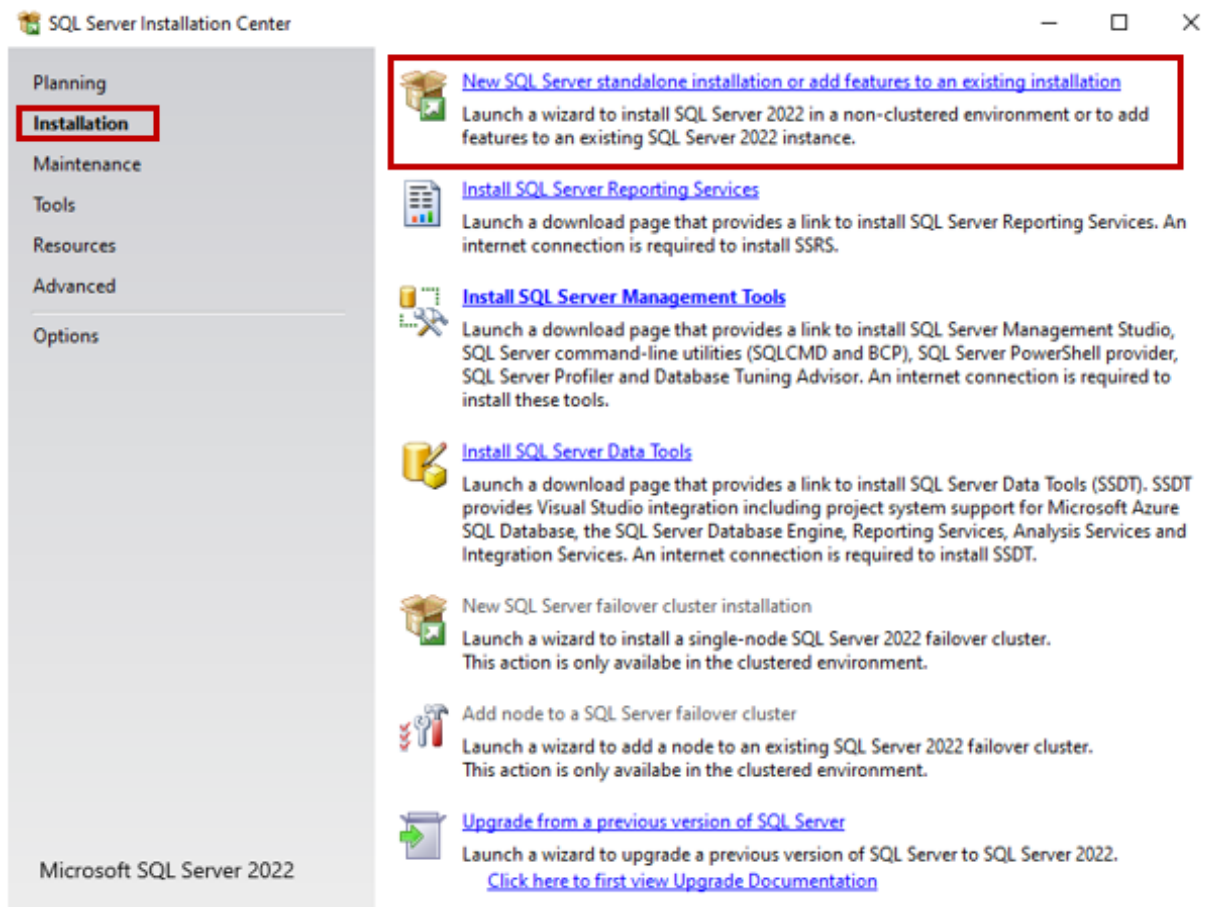
## STEP 2:



Click Install




## STEP 3





SQL Server Installation Center


Planning  
**Installation**  
Maintenance  
Tools  
Resources  
Advanced  
Options


Microsoft SQL Server 2022


 [New SQL Server standalone installation or add features to an existing installation](#)  
Launch a wizard to install SQL Server 2022 in a non-clustered environment or to add features to an existing SQL Server 2022 instance.


 [Install SQL Server Reporting Services](#)  
Launch a download page that provides a link to install SQL Server Reporting Services. An internet connection is required to install SSRS.

 [Install SQL Server Management Tools](#)  
Launch a download page that provides a link to install SQL Server Management Studio, SQL Server command-line utilities (SQLCMD and BCP), SQL Server PowerShell provider, SQL Server Profiler and Database Tuning Advisor. An internet connection is required to install these tools.

 [Install SQL Server Data Tools](#)  
Launch a download page that provides a link to install SQL Server Data Tools (SSDT). SSDT provides Visual Studio integration including project system support for Microsoft Azure SQL Database, the SQL Server Database Engine, Reporting Services, Analysis Services and Integration Services. An internet connection is required to install SSDT.

 New SQL Server failover cluster installation  
Launch a wizard to install a single-node SQL Server 2022 failover cluster. This action is only available in the clustered environment.

 Add node to a SQL Server failover cluster  
Launch a wizard to add a node to an existing SQL Server 2022 failover cluster. This action is only available in the clustered environment.

 [Upgrade from a previous version of SQL Server](#)  
Launch a wizard to upgrade a previous version of SQL Server to SQL Server 2022.  
[Click here to first view Upgrade Documentation](#)

## STEP 4

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:

Developer

☐ 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/ArcEnabledSqlPAYG>.

Standard

☐ Enter the product key:

- - - -

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

☐ I have a SQL Server license only

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Cancel

## STEP 5

SQL Server 2022 Setup

### Feature Selection

Select the Developer features to install.

Edition

License Terms

Global Rules

Product Updates

Install Setup Files

Install Rules

Azure Extension for SQL Server

**Feature Selection**

Feature Rules

Instance Configuration

PolyBase Configuration

Server Configuration

Database Engine Configuration

Analysis Services Configuration

Integration Services Scale Out ...

Integration Services Scale Out ...

Feature Configuration Rules

Ready to Install

Installation Progress

Complete

Looking for Reporting Services? [Download it from the web](#)

Features:

Instance Features

- ☒ Database Engine Services
- ☒ SQL Server Replication
- ☒ Machine Learning Services and Language Ex
- ☒ Full-Text and Semantic Extractions for Search
- ☒ Data Quality Services
- ☒ PolyBase Query Service for External Data
- ☒ Analysis Services

Shared Features

- ☒ Data Quality Client
- ☒ Integration Services
- ☒ Scale Out Master
- ☒ Scale Out Worker
- ☒ **Master Data Services**

Redistributable Features

Select All   Unselect All

Instance root directory:  ...

Shared feature directory:  ...

Shared feature directory (x86):  ...

Feature description:

Includes Master Data Services, the platform for integrating data from disparate systems across an organization into a single source of master data for accuracy and auditing purposes. Installs the Master Data Services Configuration ...

Prerequisites for selected features:

Already installed:

- Windows PowerShell 3.0 or higher
- Microsoft Visual C++ 2017 Redistributable

To be installed from media:

Disk Space Requirements

Drive C: 1098 MB required, 24105 MB available

Drive E: 10309 MB required, 276382 MB available

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## STEP 6: Creating a new SQL Server Instance

For the first time, always choose Default Instance. Thereafter you can create named Instances

SQL Server 2022 Setup

— □ ×

Instance Configuration

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

Edition

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Server Configuration

Database Engine Configuration

Analysis Services Configuration

Integration Services Scale Out ...

Integration Services Scale Out ...

Feature Configuration Rules

Ready to Install

Installation Progress

Complete

☒ Default instance

☐ Named instance: \*

MSSQLSERVER

Instance ID:

MSSQLSERVER

SQL Server directory:

E:\Program Files\Microsoft SQL Server\MSSQL16.MSSQLSERVER

Analysis Services directory:

E:\Program Files\Microsoft SQL Server\MSAS16.MSSQLSERVER

Installed instances:

Instance Name	Instance ID	Features	Edition	Version
---------------	-------------	----------	---------	---------

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SQL Server 2022 Setup

— □ ×

PolyBase Configuration

Specify PolyBase port range.

Edition

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Feature Rules

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PolyBase Configuration

Server Configuration

Database Engine Configuration

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Integration Services Scale Out ...

Feature Configuration Rules

Ready to Install

Installation Progress

Complete

Specify a port range for PolyBase services (6 or more ports):

16450-16460

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Cancel

# Step 7: Ensure the checkbox is checked

SQL Server 2022 Setup

Server Configuration

Specify the service accounts and collation configuration.

Edition

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Feature Selection

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Integration Services Scale Out ...

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 Analysis Services	NT Service\MSSQLServe...		Automatic
SQL Server Integration Services 16.0	NT Service\MsDtsServer...		Automatic
SQL Server Integration Services Sc...	NT Service\SSISScaleOut...		Automatic
SQL Server Integration Services Sc...	NT Service\SSISScaleOut...		Automatic
SQL Server PolyBase Engine	NT AUTHORITY\NETWO...		Automatic
SQL Server PolyBase Data Movem...	NT AUTHORITY\NETWO...		Automatic
SQL Server Launchpad	NT Service\MSSQLLaun...		Automatic
SQL Full-text Filter Daemon Launc...	NT Service\MSSQLFDLa...		Manual
SQL Server Browser	NT AUTHORITY\LOCAL ...		Disabled

☒ Grant Perform Volume Maintenance Tasks 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](#)

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# STEP 8

SQL Server 2022 Setup

Analysis Services Configuration

Specify Analysis Services server modes, administrators, and data directories.

Edition

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Product Updates

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Install Rules

Azure Extension for SQL Server

Feature Selection

Feature Rules

Instance Configuration

PolyBase Configuration

Server Configuration

Database Engine Configuration

Analysis Services Configuration

Integration Services Scale Out ...

Integration Services Scale Out ...

Feature Configuration Rules

Ready to Install

Installation Progress

Complete

Server Configuration

Data Directories

Server Mode:

☐ Multidimensional Mode

☒ Tabular Mode

Specify which users have administrative permissions for Analysis Services.

SAMPRADA\sampr (sampr)

Analysis Services administrators have unrestricted access to Analysis Services.

Add Current User

Add...

Remove

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Cancel

# STEP 9: Create an SSL certificate

SQL Server 2022 Setup

Integration Services Scale Out Configuration - Master Node

Specify the port number and security certificate for the Scale Out Master node.

Edition

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Product Updates

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Install Rules

Azure Extension for SQL Server

Feature Selection

Feature Rules

Instance Configuration

PolyBase Configuration

Server Configuration

Database Engine Configuration

Analysis Services Configuration

Integration Services Scale Ou...

Integration Services Scale Out ...

Feature Configuration Rules

Ready to Install

Installation Progress

Complete

Specify a port number that the master node uses to communicate with the worker nodes.

Port Number: 8391

Select a SSL certificate that is used for the communication between the master node and worker nodes in the scale out topology. A default self-signed certificate is created if you choose to create a new SSL certificate.

☒ Create a new SSL certificate

CNs in the certificate:

CN=samprada; CN=192.168.0.104

☐ Use an existing SSL certificate

Browse...

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SQL Server 2022 Setup

Integration Services Scale Out Configuration - Worker Node

Specify the master node endpoint and security certificate used by the Scale Out Worker node.

Edition

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Install Setup Files

Install Rules

Azure Extension for SQL Server

Feature Selection

Feature Rules

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PolyBase Configuration

Server Configuration

Database Engine Configuration

Analysis Services Configuration

Integration Services Scale Out ...

Integration Services Scale Ou...

Feature Configuration Rules

Ready to Install

Installation Progress

Complete

Provide the master node endpoint which the worker node needs to connect to (e.g. https://[MasterNodeMachineName]:[Port]):

https://samprada:8391

Configure the SSL certificate of master node to trust in this machine. The master's SSL certificate needs to be trusted on this worker node for establishing the connection between worker and master. This is optional if your master certificate has already been trusted, i.e. it's issued by a trusted CA (Certification Authority) on this machine, or the master is installed on the same machine. Otherwise, please provide the master's client SSL certificate, i.e. the certificate is created and self-signed by yourself and the master is not on the same machine.

Browse...

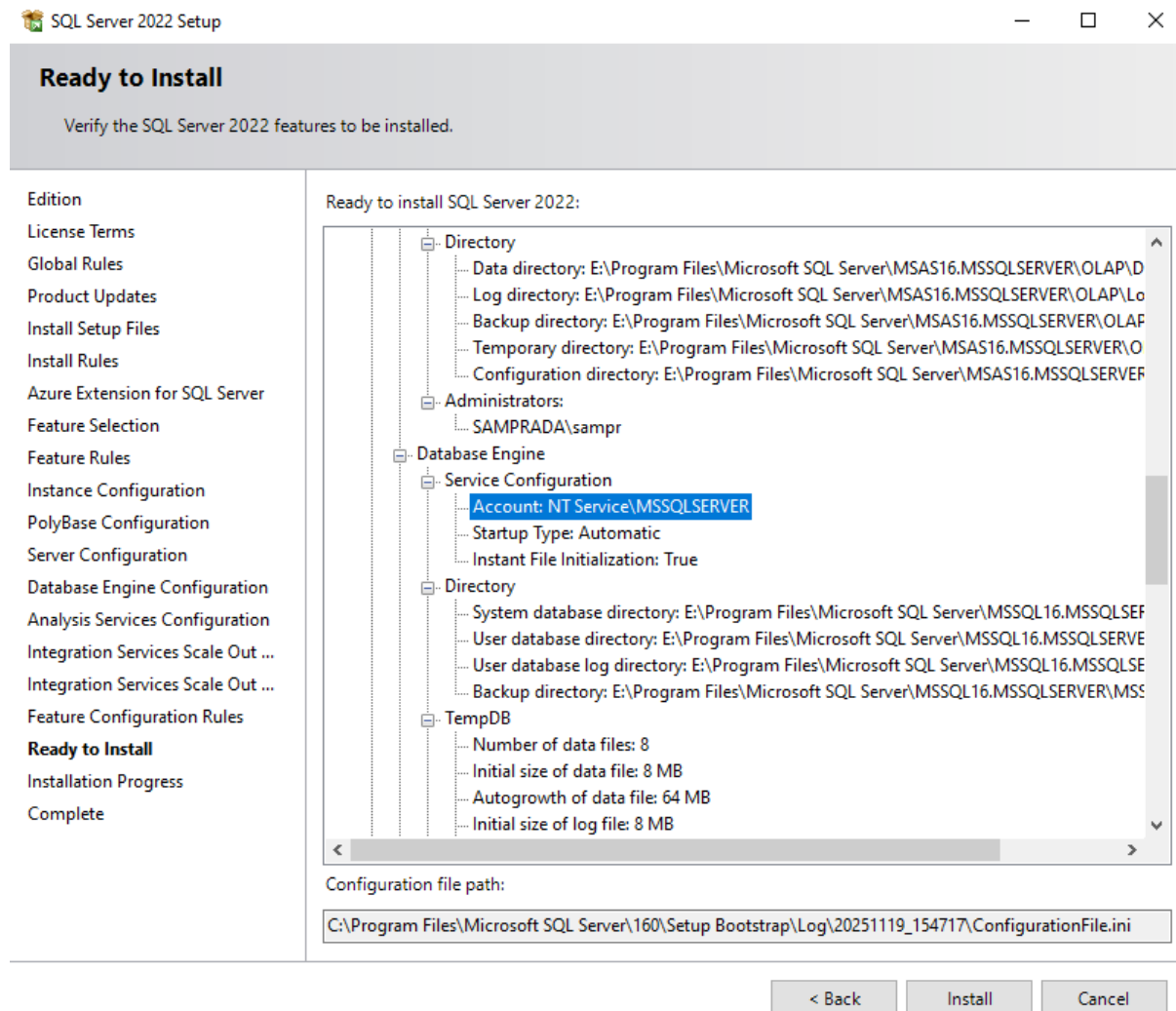
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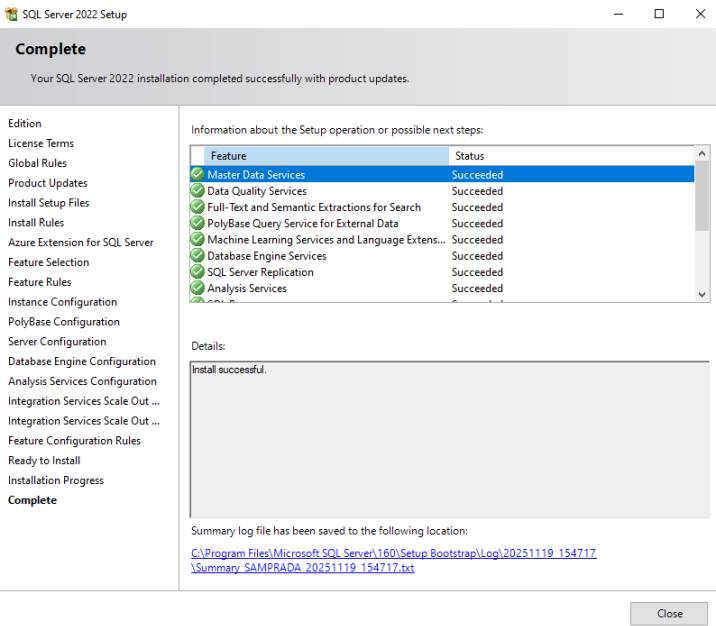
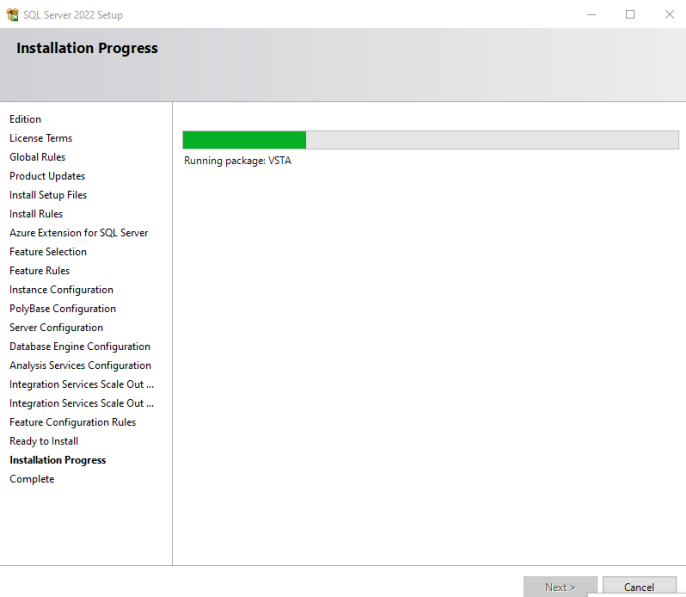
Cancel



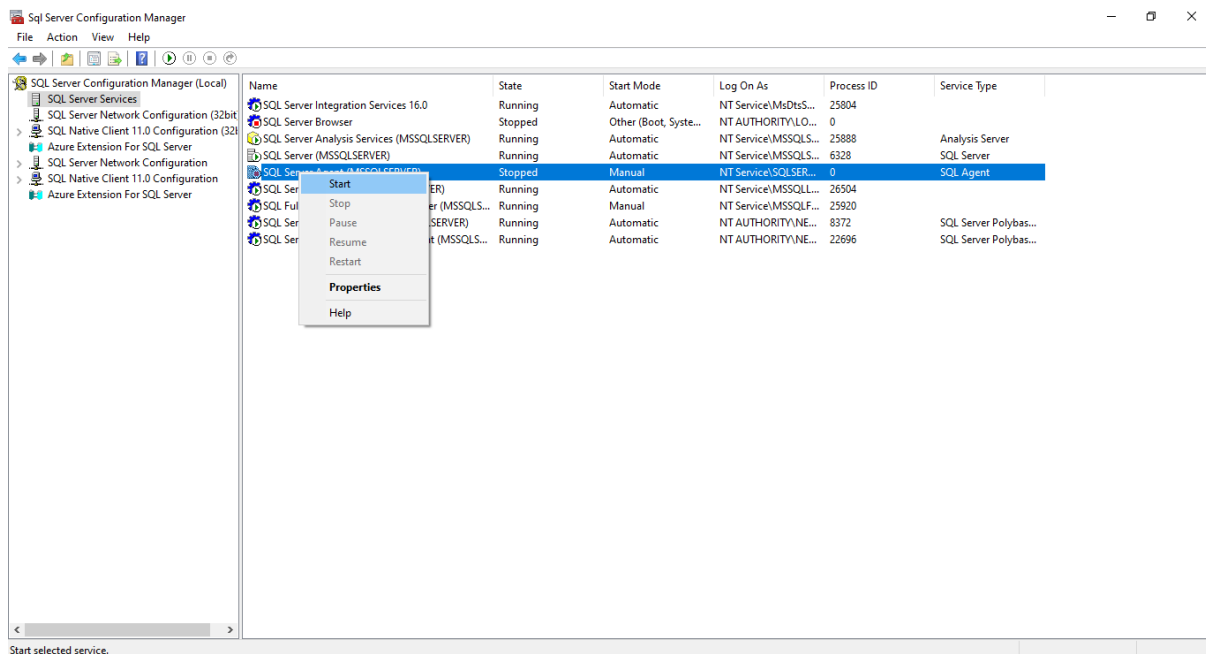
STEP 10: Summary of what will be installed. Make a note of the configuration.ini file location for future use.



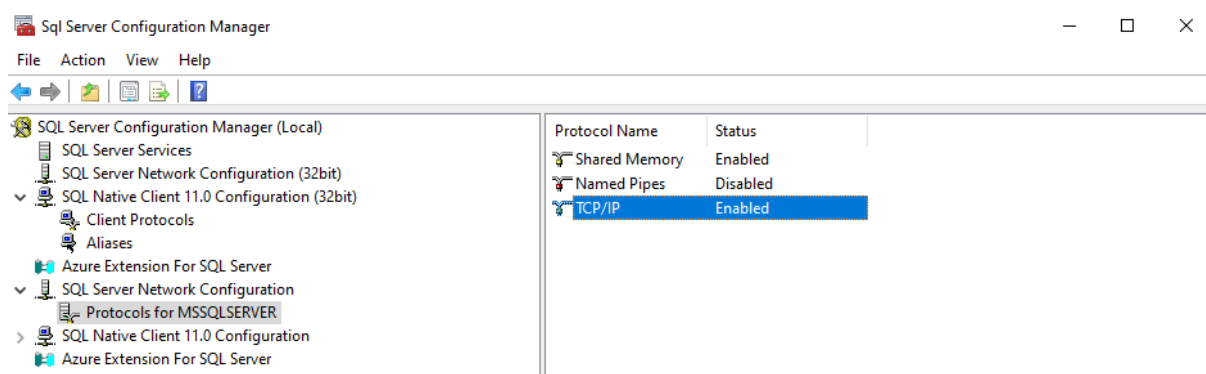
# STEP 11: Installation in progress to completion. This will take some time.



STEP 12: Verify Installation. Open Sql Server Manager from Start Menu. In it, choose SQL Services. Start the SQL Server Agent.



STEP 13: Enable TCP/IP Protocols



STEP 14:

Additional Step of Verification:

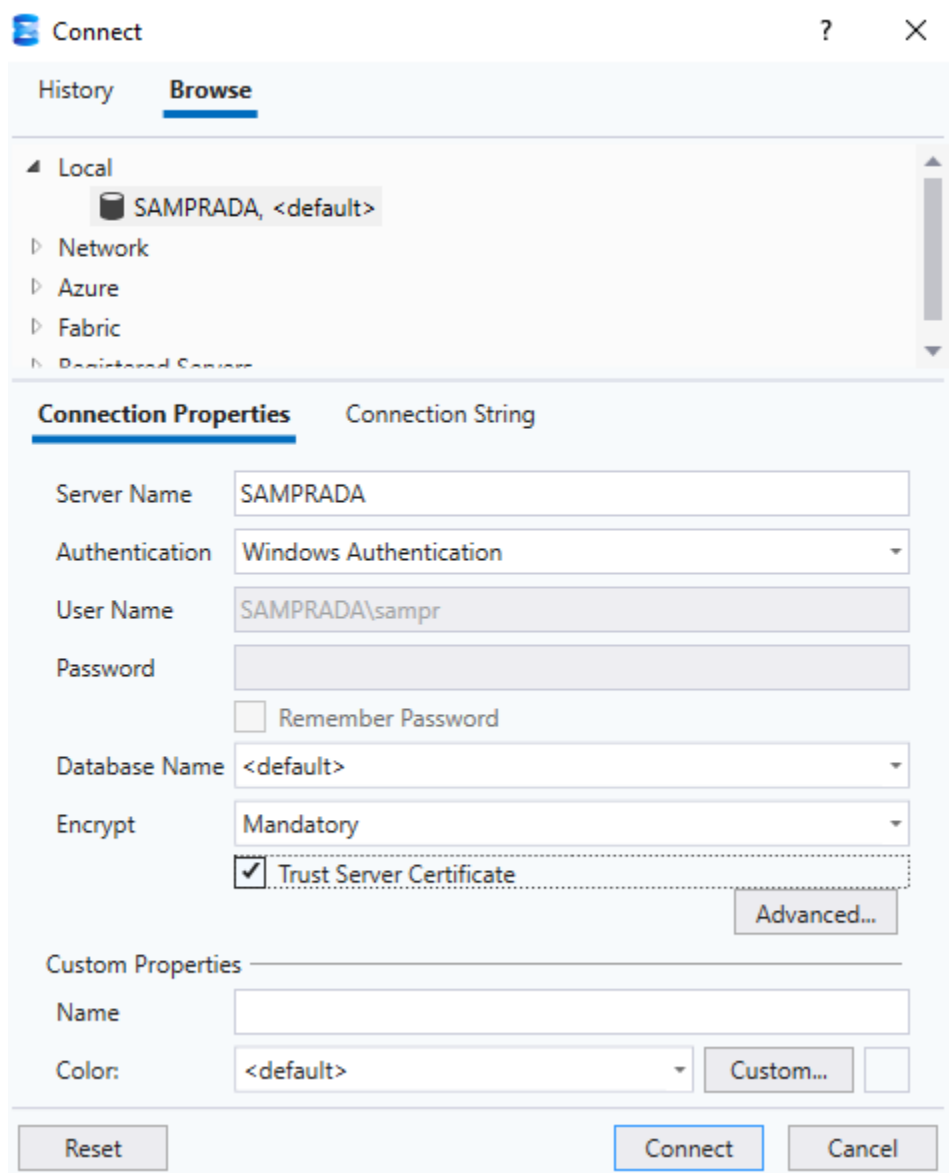
Using Command Prompt, Run the command:

```
➤ sqlcmd -S localhost -Q "SELECT @@VERSION"
```

If you get a response with SQL Server version details, the instance is running.

## STEP 15: Install SSMS for additional Verification

- Run Sql Server Management Studio setup wizard.
- Once Installed, launch SSMS 2022 from Start Menu
- The Default Instance is accessed by the machine name. Hence to access the default instance, add the machine name as server name



- Click Connect. The Server should be connected, and visible in the Object Explorer.

**This completes the installation and verification of a SQL Instance for SQL Server 2022**