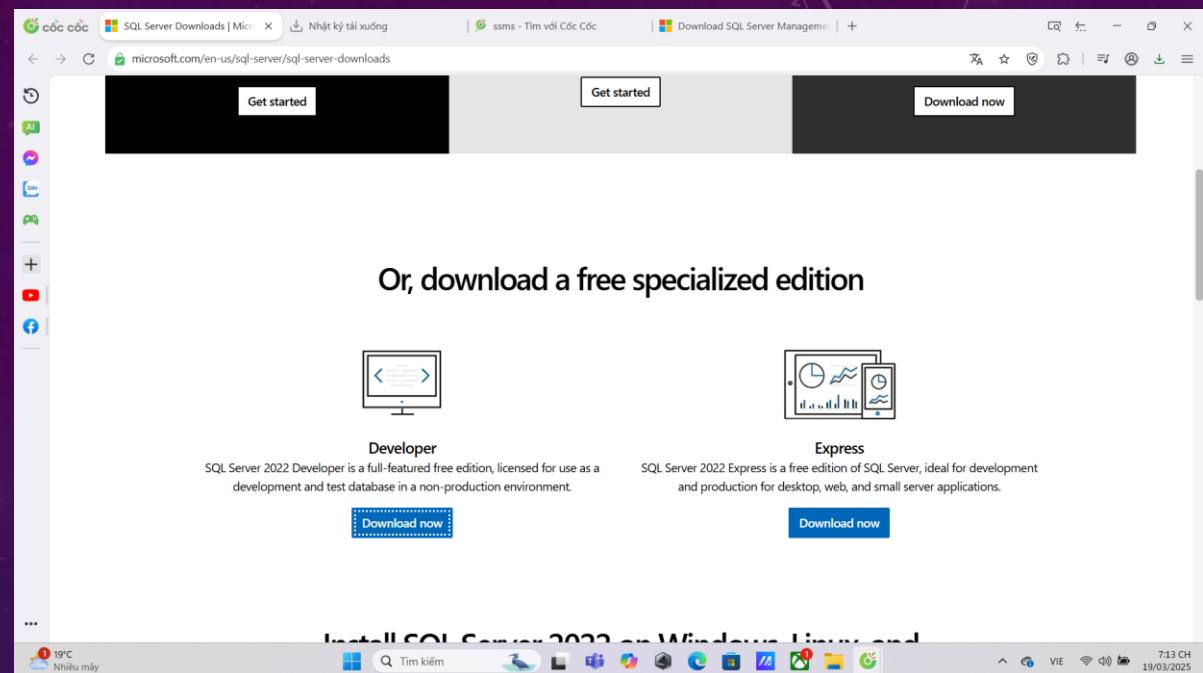


# CÀI ĐẶT SQL SERVER 2022

Hoàng Thị Xuân Trang  
K225480106064  
K58.KTP



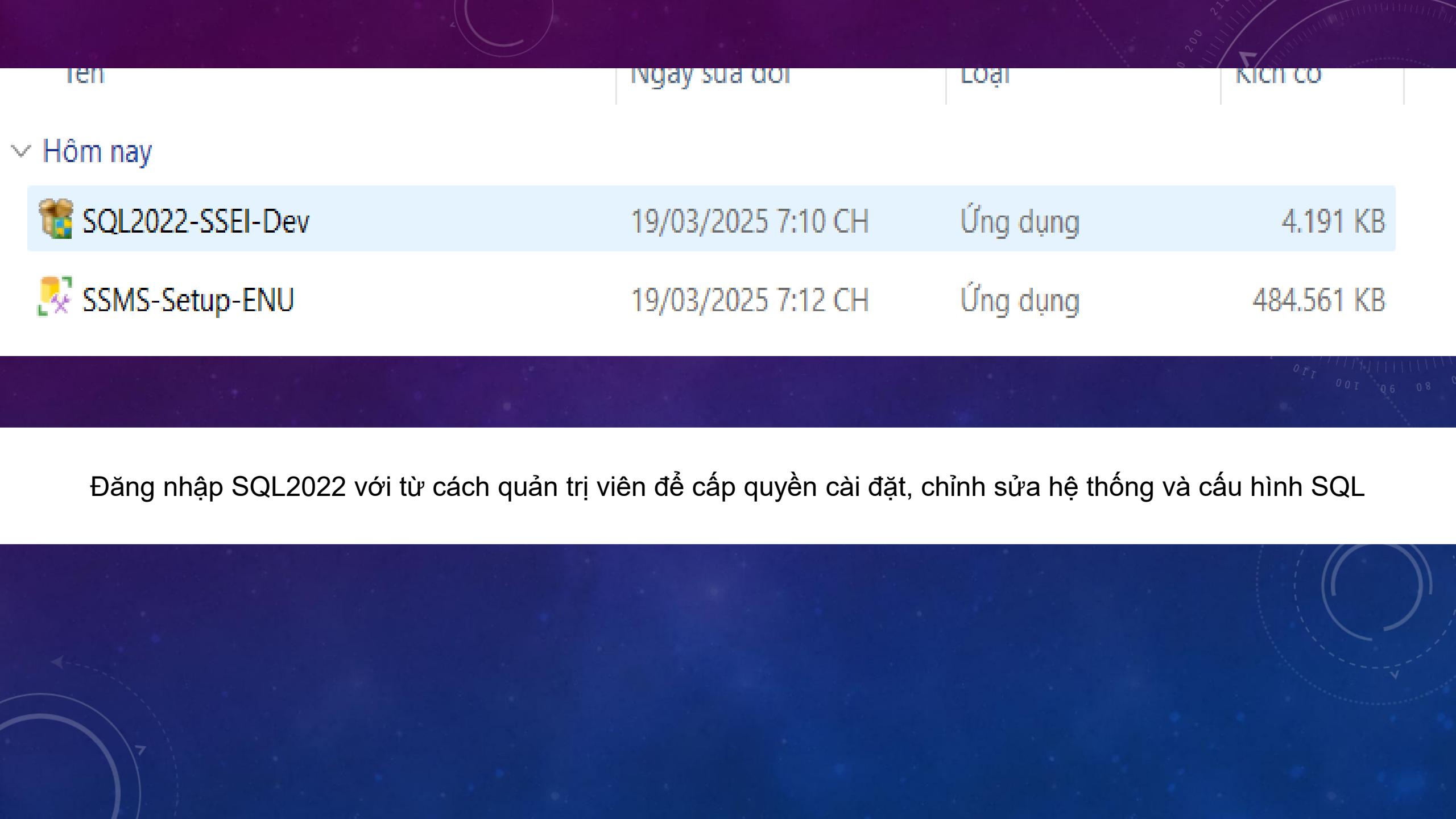
Bộ cài SQL Sever 2022( phiên bản DEV)

This screenshot shows the Microsoft SQL Server Management Studio (SSMS) 2022 page. It includes a sidebar with links like 'Filter by title', 'Microsoft SQL documentation', 'SQL Server Management Studio 21 Preview', 'Download SSMS', 'Release notes', 'Overview', 'Quickstarts', 'Tutorials', 'Concepts', 'How-to', 'References', and 'Resources'. The main content area is titled 'Download SSMS' and contains a link to 'Download SQL Server Management Studio (SSMS) 20.2'. Below it, there's information about SSMS 20.2 being the latest generally available (GA) version, and instructions for upgrading from previous versions. A note says: 'By using SQL Server Management Studio, you agree to its license terms and privacy statement.' At the bottom, there are links for 'Connect to Server (Login page) - Database Engine', 'SQL Server Management', and 'Show 5 more'.

Bộ cài SSMS

**-Server 2022 (Developer Edition):** Hệ quản trị cơ sở dữ liệu của Microsoft, dùng để lưu trữ, truy vấn và quản lý dữ liệu. Phiên bản Developer đầy đủ tính năng nhưng chỉ dùng để phát triển, không dùng trong sản xuất.

**-SQL Server Management Studio (SSMS):** Công cụ quản lý SQL Server với giao diện đồ họa, hỗ trợ truy vấn, cấu hình và quản trị cơ sở dữ liệu dễ dàng.



Đăng nhập SQL2022 với tư cách quản trị viên để cấp quyền cài đặt, chỉnh sửa hệ thống và cấu hình SQL

-  [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](#)

Chọn Installation và  
chọn New SQL  
Sever Standalone  
installation... Để cài  
đặt và giúp thiết lập  
môi trường cơ sở dữ  
liệu để lưu trữ và  
quản lý dữ liệu

## Microsoft Update

Use Microsoft Update to check for important updates

- Global Rules
- Microsoft Update**
- Product Updates
- Install Setup Files
- Install Rules
- Installation Type
- Edition
- License Terms
- Azure Extension for SQL Server
- Feature Selection
- Feature Rules
- Feature Configuration Rules
- Ready to Install
- Installation Progress
- Complete

Microsoft Update offers security and other important updates for Windows and other Microsoft software, including SQL Server 2022. Updates are delivered using Automatic Updates, or you can visit the Microsoft Update website.

Use Microsoft Update to check for updates (recommended)

[Microsoft Update FAQ](#)

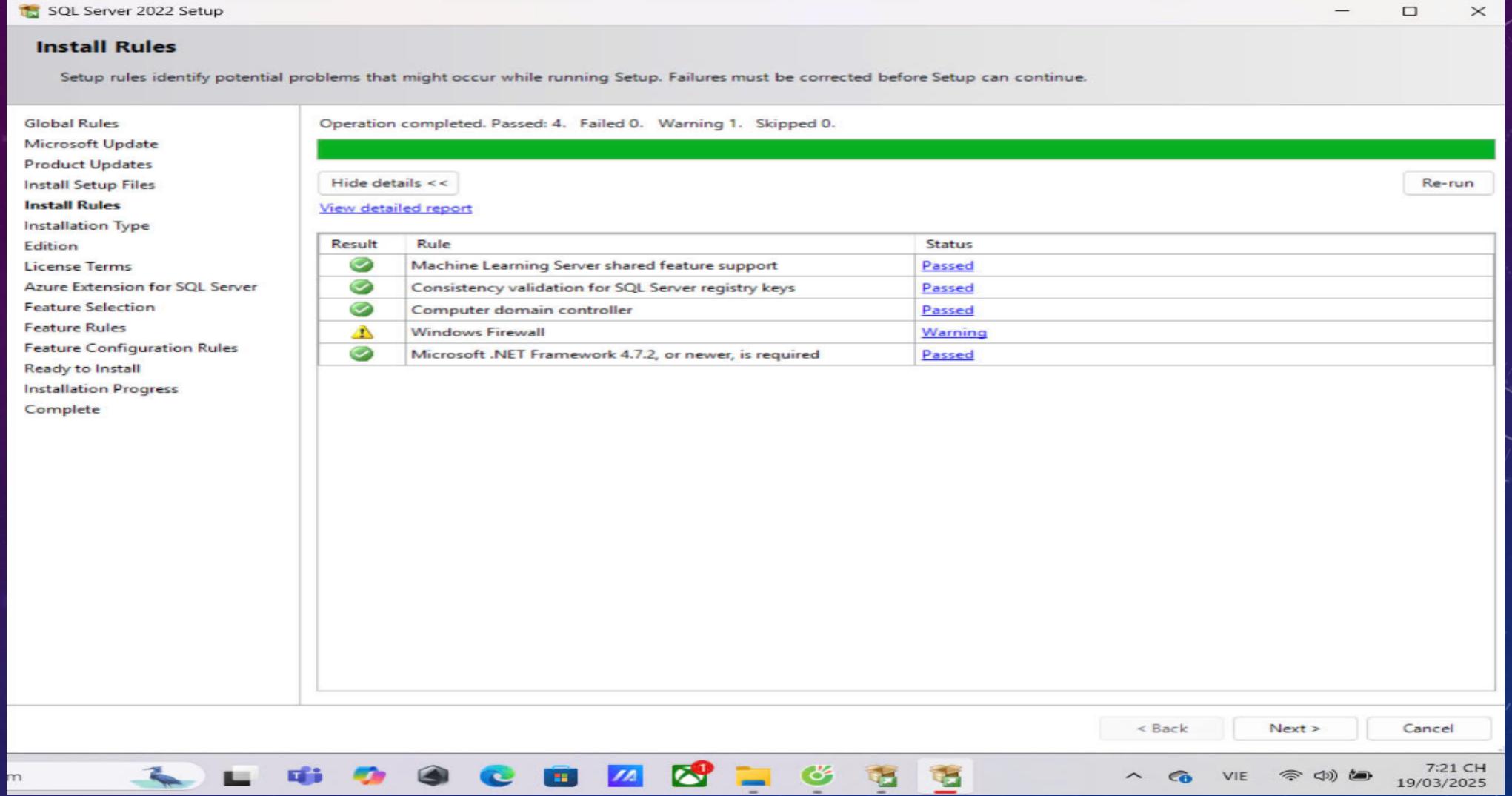
[Microsoft Privacy Statement](#)

< Back

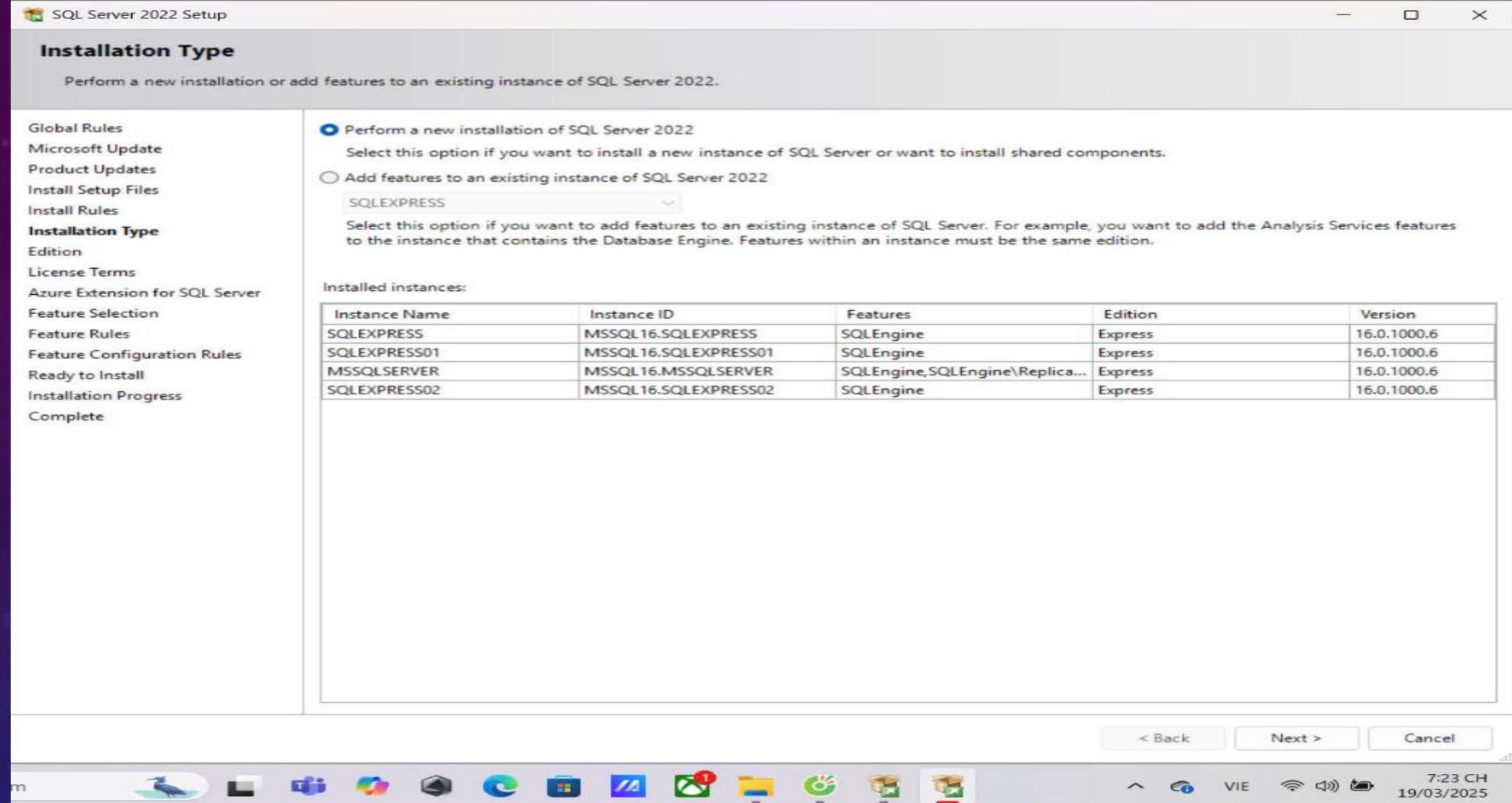
Next >

Cancel

Nhấn Next



Kiểm tra hệ thống xem có đáp ứng yêu cầu hay không.  
Nếu có lỗi, cần khắc phục trước khi tiếp tục cài đặt.



Cho phép chọn **cài mới SQL Server 2022 hoặc thêm tính năng vào phiên bản đã có**. Nếu muốn cài mới, chọn tùy chọn đầu tiên.

**Edition**

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

Global Rules

Microsoft Update

Product Updates

Install Setup Files

Install Rules

Installation Type

**Edition**

License Terms

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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Next &gt;

Cancel

Chọn phiên bản SQL Server: chọn **Developer** (miễn phí, đầy đủ tính năng nhưng chỉ dùng để phát triển)

**License Terms**

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

- Global Rules
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- Install Setup Files
- Install Rules
- Installation Type
- Edition
- License Terms**
- Azure Extension for SQL Server
- Feature Selection
- Feature Rules
- Feature Configuration Rules
- Ready to Install
- Installation Progress
- Complete

**SQL Server 2022 Developer Edition**

**YOU MUST ACCEPT THE SOFTWARE LICENSE TERMS. SEE BELOW. Please read the full license terms provided at [aka.ms/useterms](http://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 data. You can learn more about Microsoft's data collection and use in the product documentation and the Microsoft Privacy Statement at <https://go.microsoft.com/fwlink/?LinkId=521839>. You agree to comply with all applicable provisions of the Microsoft Privacy Statement including the SQL Server privacy supplement: <http://go.microsoft.com/fwlink/?LinkId=868444>

**MICROSOFT SOFTWARE LICENSE TERMS  
MICROSOFT SQL SERVER**

The license agreement for SQL Server software at (aka.ms/useterms) is an agreement between you and Microsoft Corporation (or, based on where you live or if a business where your principal place of business is located, one of its affiliates). If you have an applicable volume license agreement for SQL Server software, it takes the place of the license agreement at (aka.ms/useterms). If you acquired a runtime version of SQL Server software with a software application or suite of applications, the licensor of the software application or suite licenses the SQL Server.



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

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](#).

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Cancel

Chấp nhận điều khoản sử dụng của SQL Server 2022. Tích vào ô "I accept the license terms" để tiếp tục cài đặt.

## Azure Extension for SQL Server

Azure Extension for SQL Server is required to enable Microsoft Defender for Cloud, Purview, and Azure Active Directory.

- Global Rules
- Microsoft Update
- Product Updates
- Install Setup Files
- Install Rules
- Installation Type
- Edition
- License Terms
- Azure Extension for SQL Server...**
- Feature Selection
- Feature Rules
- Feature Configuration Rules
- Ready to Install
- Installation Progress
- Complete

Azure Extension for SQL Server

To install Azure extension for SQL Server, provide your Azure account or a service principal to authenticate the SQL Server instance to Azure. You also need to provide the Subscription ID, Resource Group, Region, and Tenant ID where this instance will be registered. For more information for each parameter, visit <https://aka.ms/arc-sql-server>.

Use Azure Login

Use Service Principal

Azure Service Principal ID\*

Azure Service Principal Secret\*

Azure Subscription ID\*

Azure Resource Group\*

Azure Region\*

Azure Tenant ID\*

Proxy Server URL (optional)

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Cancel

Tích Azure Extension for SQL Sever để bỏ qua phần mở rộng cho Azure

**Feature Selection**

Select the Developer features to install.

Global Rules

Microsoft Update

Product Updates

Install Setup Files

Install Rules

Installation Type

Edition

License Terms

Azure Extension for SQL Server

**Feature Selection**

Feature Rules

Instance 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:

Feature description:

**Instance Features**

- Database Engine Services
- SQL Server Replication
- Machine Learning Services and Language Extensions
- 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**

Prerequisites for selected features:

## Already installed:

- Windows PowerShell 3.0 or higher
- Microsoft Visual C++ 2017 Redistributable
- Microsoft Visual Studio Tools for Applications 2019

## Disk Space Requirements

Drive C: 2145 MB required, 87697 MB available

**Select All****Unselect All**

Instance root directory:

C:\Program Files\Microsoft SQL Server\

...

Shared feature directory:

C:\Program Files\Microsoft SQL Server\

...

Shared feature directory (x86):

C:\Program Files (x86)\Microsoft SQL Server\

...

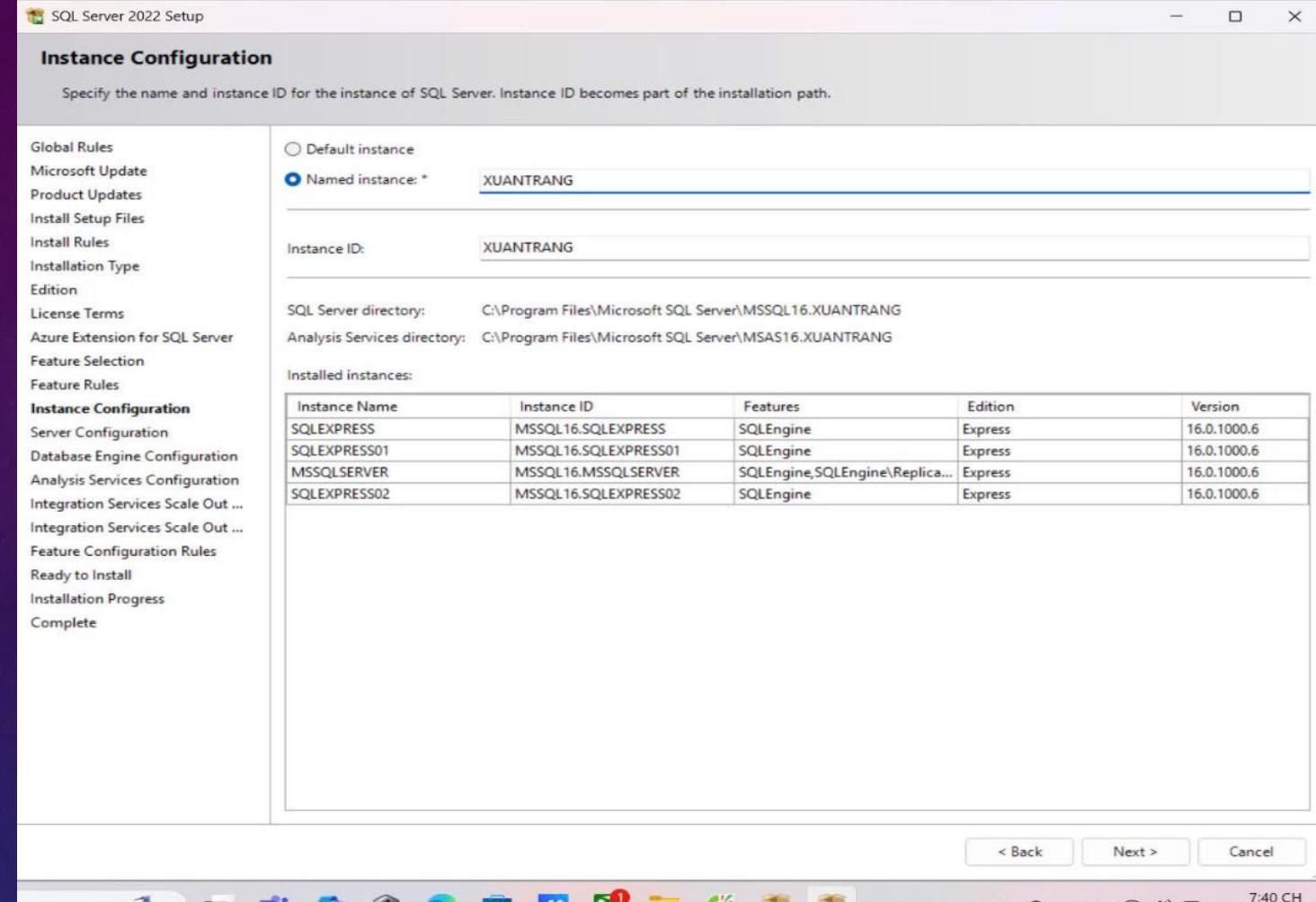
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Cancel

**Chọn các tính năng khi cài đặt SQL Server:**

- **Engine Services:** Chức năng chính để lưu trữ và quản lý dữ liệu.
- **Analytics Services:** Hỗ trợ phân tích dữ liệu, dùng cho BI (Business Intelligence).
- **Data Quality Services:** Cải thiện chất lượng dữ liệu.
- **PolyBase:** Kết nối với dữ liệu ngoài SQL Server (như Hadoop, Azure).
- **Redistributable Features:** Các thành phần bổ sung như SQL Server Browser



Đặt tên và ID cho Instance (phiên bản) SQL Server.  
Có thể chọn Default instance (mặc định) hoặc Named instance (đặt tên riêng).  
Hiển thị danh sách các Instance đã cài đặt trên máy.

## Server Configuration

Specify the service accounts and collation configuration.

- Global Rules
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- Installation Type
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- Feature Selection
- Feature Rules
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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

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\SQLAgent\$XUANTRANG		Manual ▾
SQL Server Database Engine	NT Service\MSSQLS\$XUANTRANG		Automatic ▾
SQL Server Analysis Services	NT Service\MSOLAP\$XUANTRANG		Automatic ▾
SQL Server Integration Services 16.0	NT Service\MsDtsServer160		Automatic ▾
SQL Server Integration Services Scale Out Master 16.0	NT Service\SSISScaleOutMaster160		Automatic ▾
SQL Server Integration Services Scale Out Worker 16.0	NT Service\SSISScaleOutWorker160		Automatic ▾
SQL Full-text Filter Daemon Launcher	NT Service\MSSQLFDLauncher\$XUANT...		Manual
SQL Server Browser	NT AUTHORITY\LOCALSERVICE		Automatic ▾

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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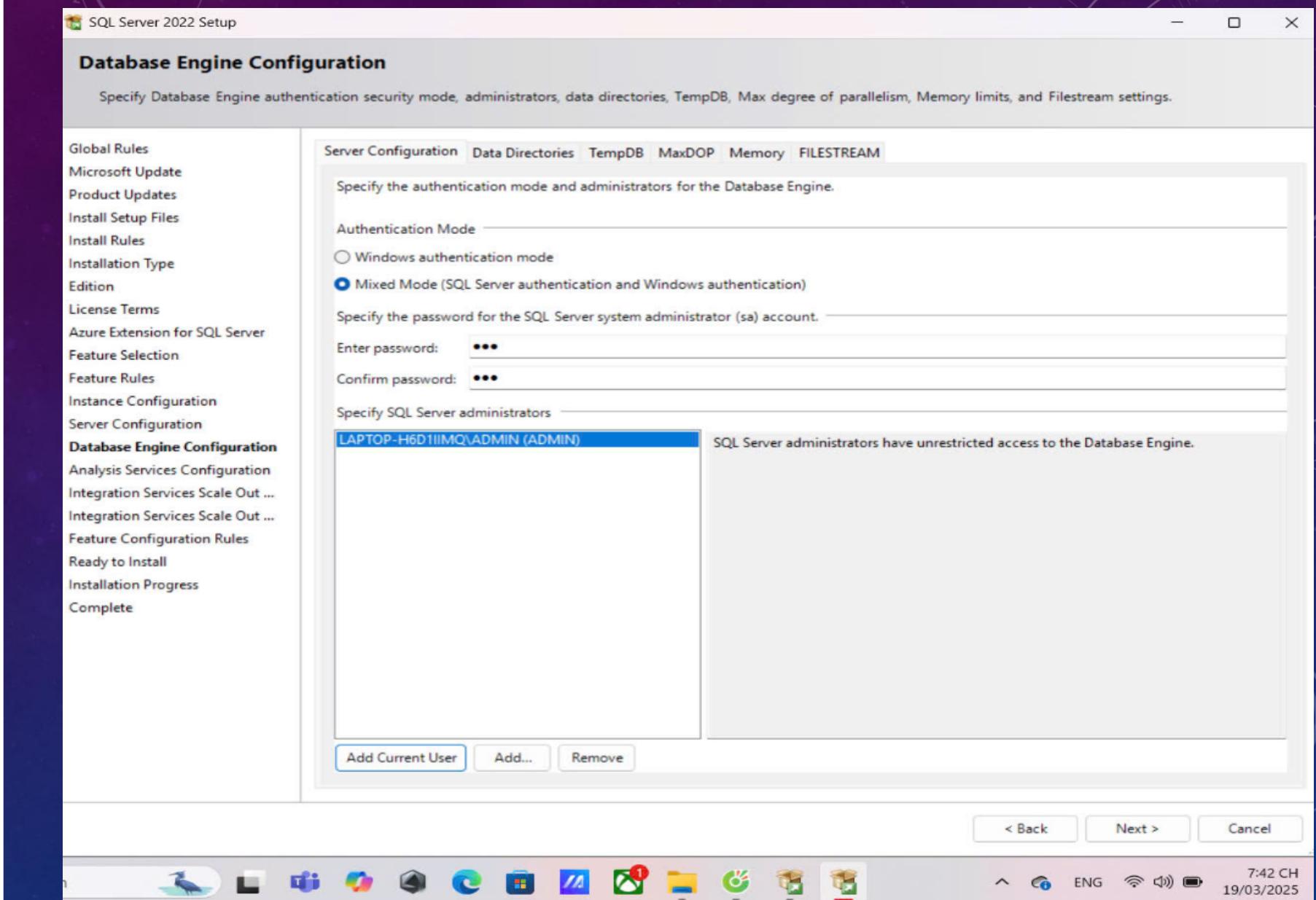
Cancel

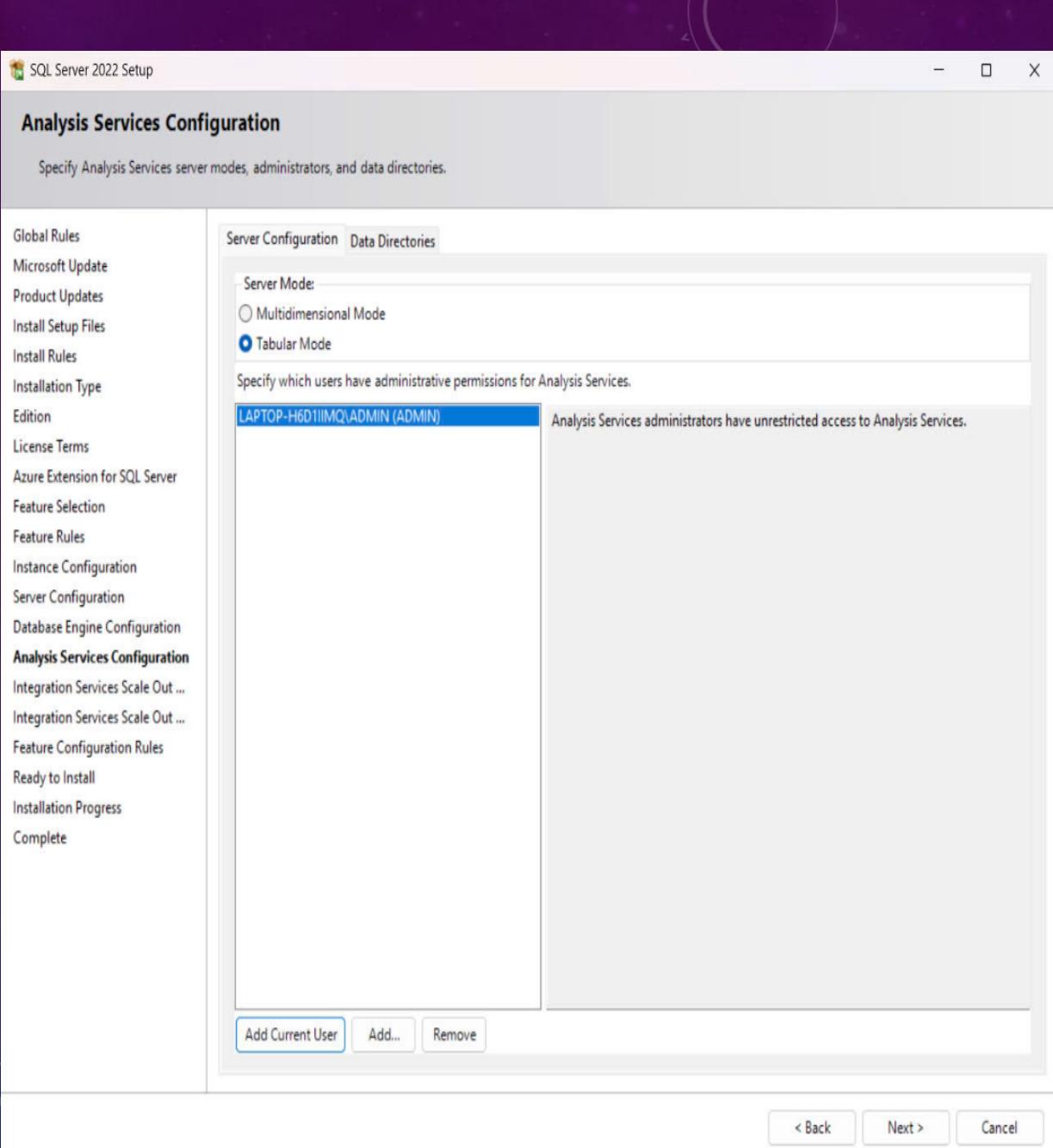
7:41 CH  
19/03/2025

# Nhân Next

# QL Server Authentication

- Dùng tài khoản SQL Server (sa) với mật khẩu riêng.
- Không phụ thuộc vào Windows, tiện lợi khi truy cập từ ứng dụng bên ngoài.  
(Thực hiện đặt mật khẩu đăng nhập và thêm thiết bị)



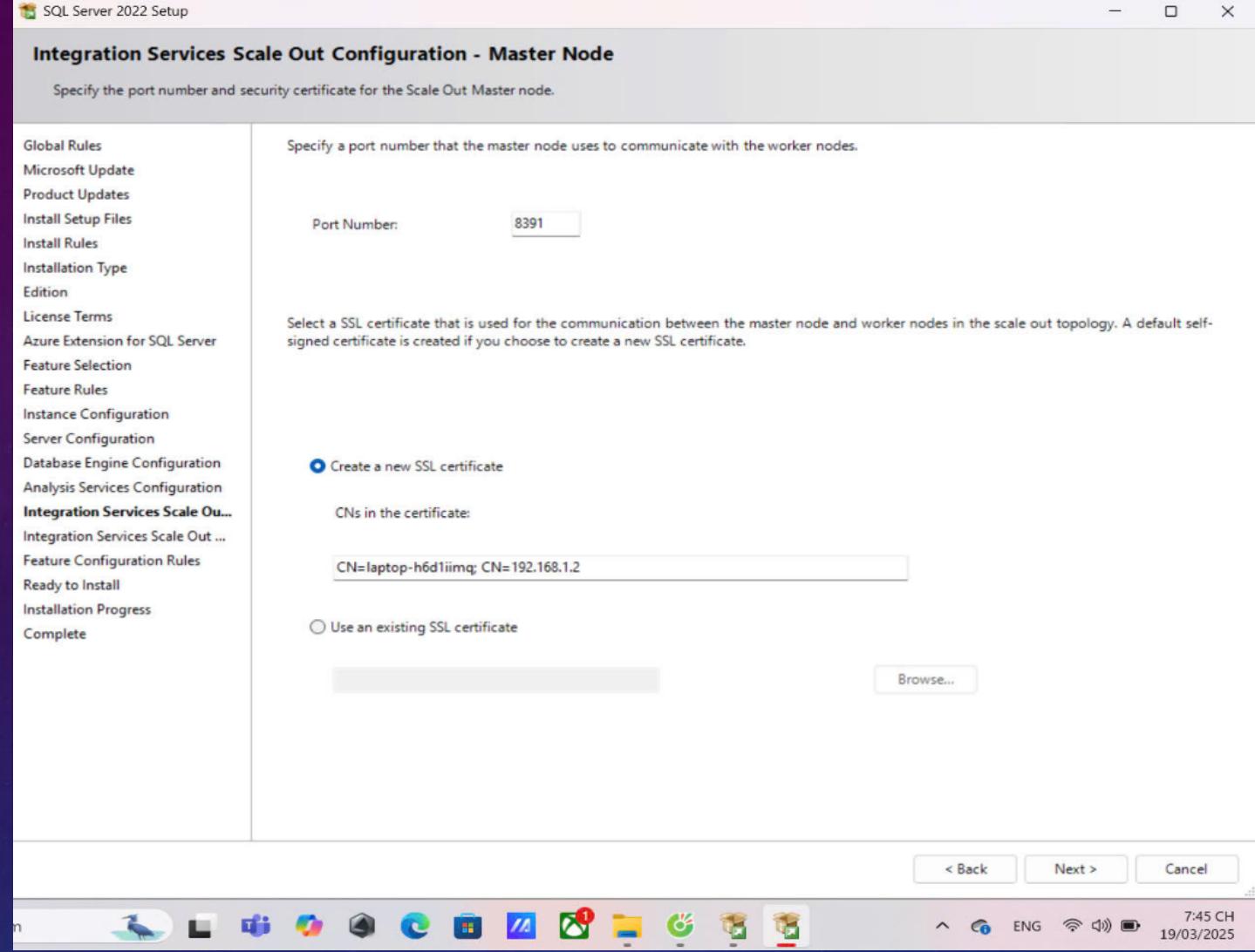


**Tabular Mode:** Xử lý dữ liệu theo mô hình bảng, tối ưu cho hiệu suất cao và tích hợp Power BI.

**Administrators:** Chọn người có quyền quản trị **SQL Server Analysis Services (SSAS)**.

**Mục đích:**

Cấu hình SSAS để hỗ trợ phân tích dữ liệu nâng cao.



Cấu hình Scale Out cho SQL Server Integration Services (SSIS), giúp xử lý dữ liệu phân tán trên nhiều máy.

Port Number: Cổng (8391) được dùng để Master Node giao tiếp với Worker Nodes.

SSL Certificate: Chứng chỉ SSL để bảo mật kết nối giữa Master và Worker Nodes

## Integration Services Scale Out Configuration - Worker Node

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

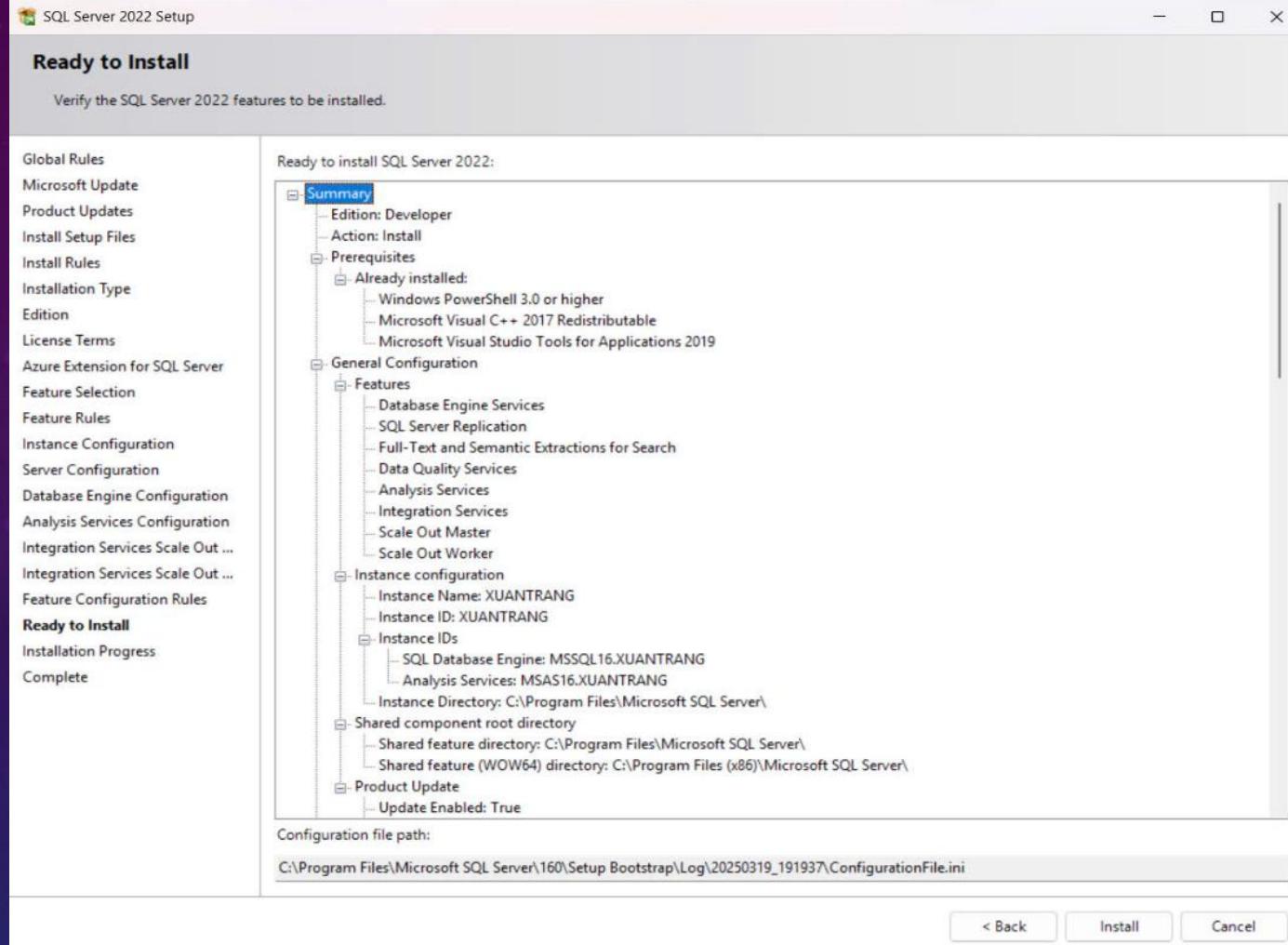
- Global Rules
- Microsoft Update
- Product Updates
- Install Setup Files
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- Installation Type
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- License Terms
- Azure Extension for SQL Server
- Feature Selection
- Feature Rules
- Instance Configuration
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- 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]):

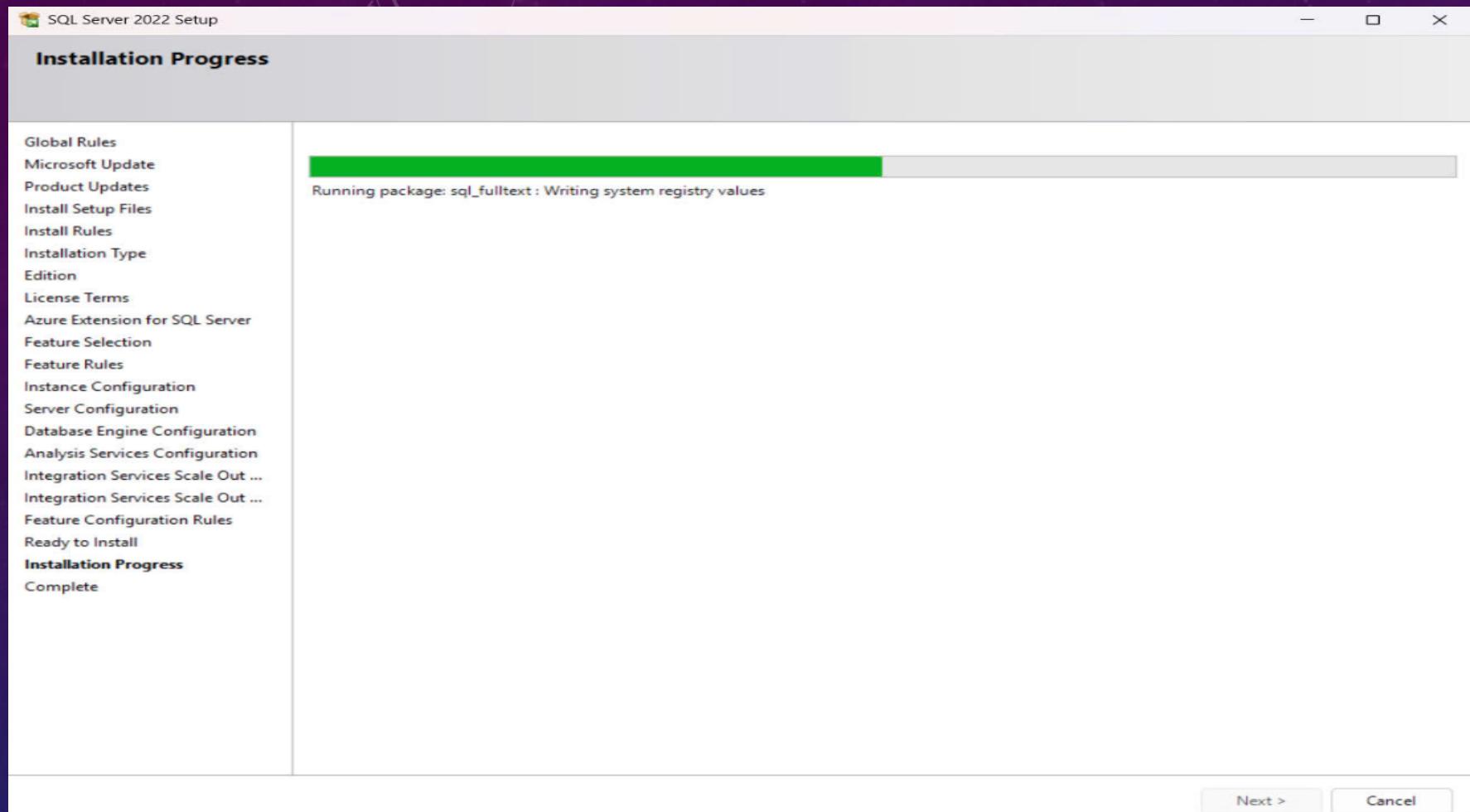
Configure the SSL certificate of master node to trust in this machine. The master's SSL certificate needs to be trusted on this worker node for establishing the connection between worker and master. This is optional if your master certificate has already been trusted, i.e. it's issued by a trusted CA (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.

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# Nhấn Next



Xác nhận các tính năng và cài đặt. Nhấn install để tải  
xuống



Quá trình tải xuống

# Xác nhận hoàn tất: Hiển thị thông báo rằng quá trình cài đặt đã kết thúc thành công.

SQL Server 2022 Setup

Complete

Your SQL Server 2022 installation completed successfully with product updates.

Global Rules  
Microsoft Update  
Product Updates  
Install Setup Files  
Install Rules  
Installation Type  
Edition  
License Terms  
Azure Extension for SQL Server  
Feature Selection  
Feature Rules  
Instance 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

Information about the Setup operation or possible next steps:

Feature	Status
Data Quality Services	Succeeded
Full-Text and Semantic Extractions for Search	Succeeded
Database Engine Services	Succeeded
SQL Server Replication	Succeeded
Analysis Services	Succeeded
Scale Out Worker	Succeeded
Scale Out Master	Succeeded
Integration Services	Succeeded

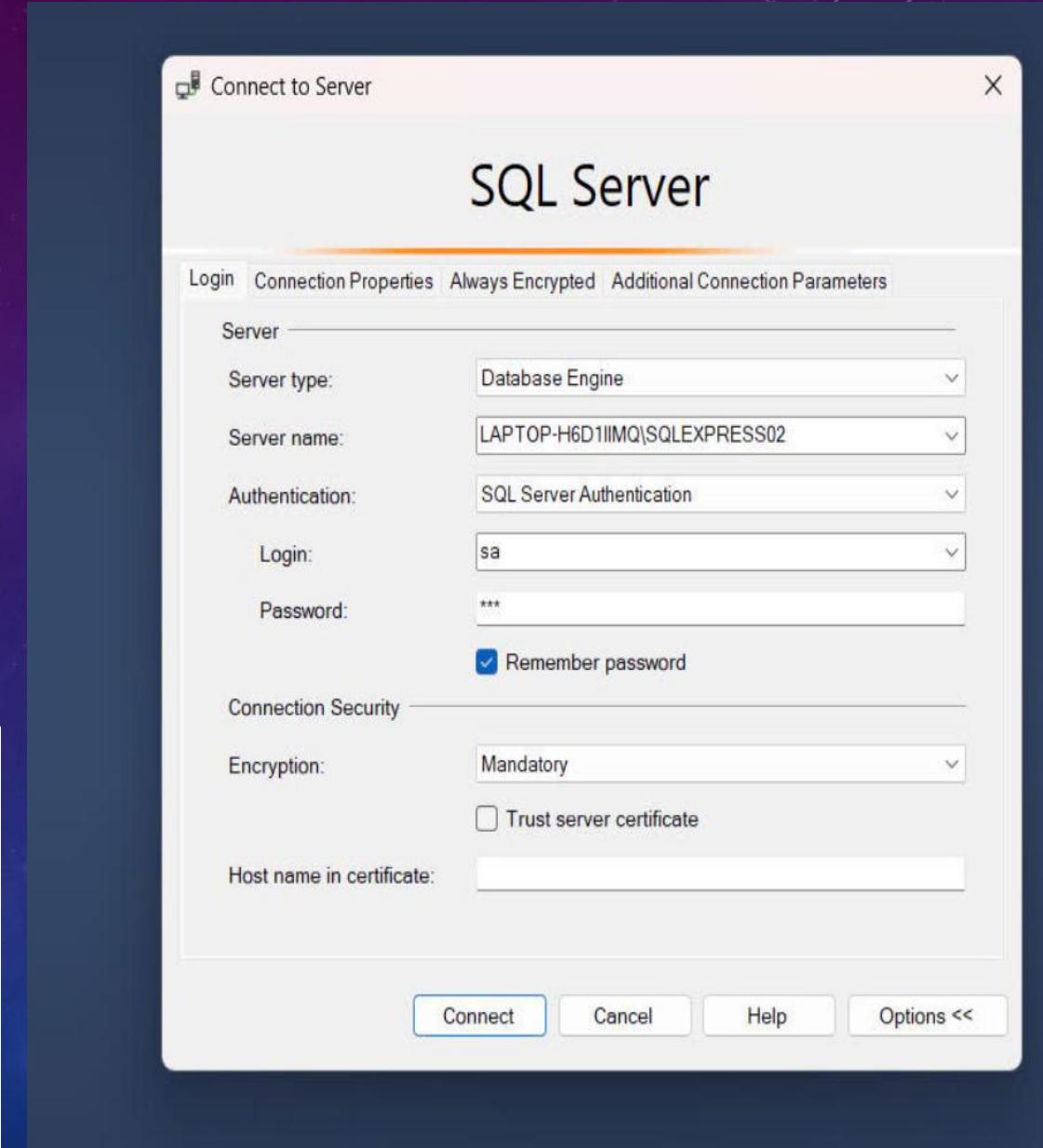
Details:

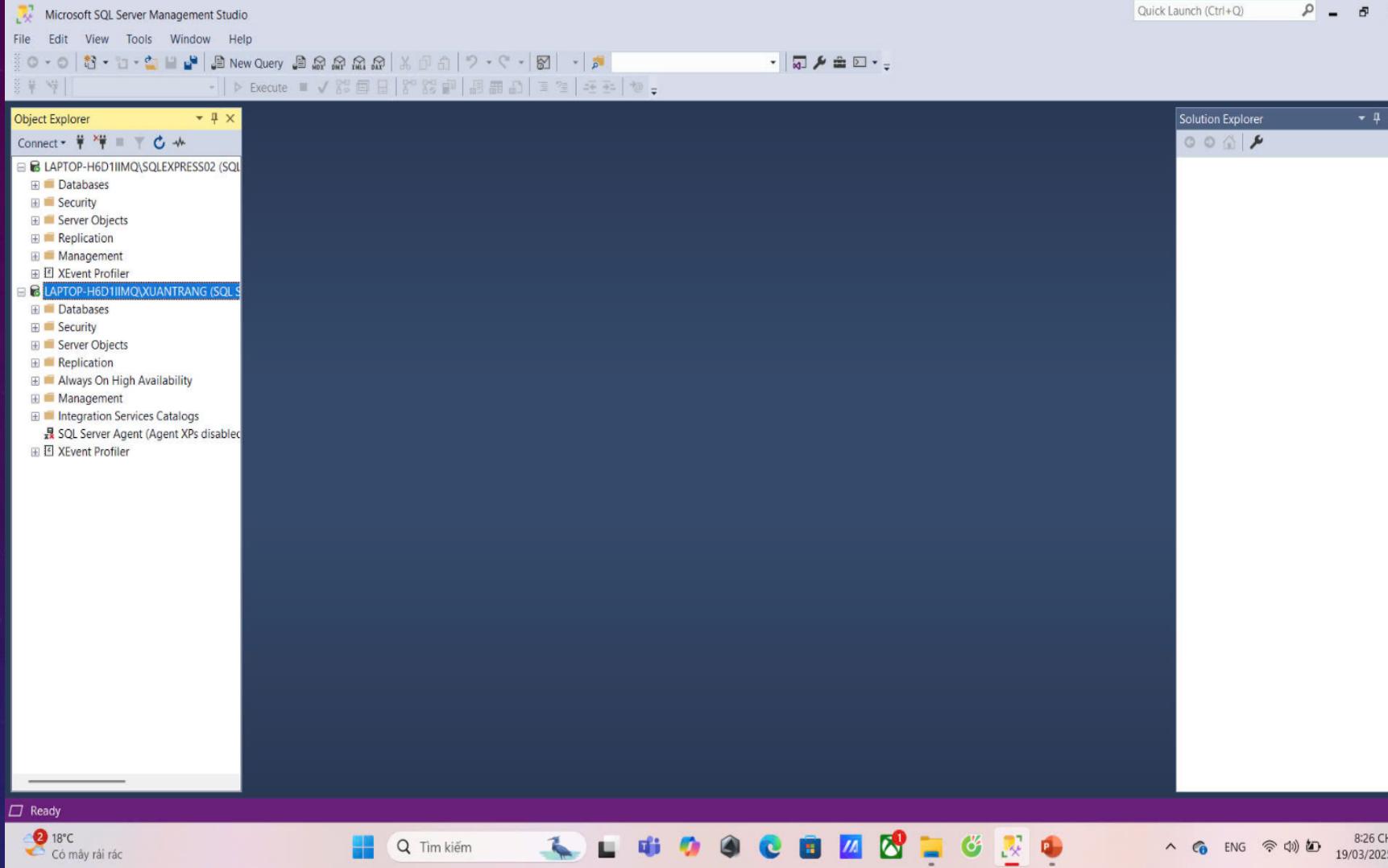
Install successful.

Summary log file has been saved to the following location:  
[C:\Program Files\Microsoft SQL Server\160\Setup Bootstrap\Log\20250319\\_191937\Summary\\_LAPTOP-H6D1IIMQ\\_20250319\\_191937.txt](C:\Program Files\Microsoft SQL Server\160\Setup Bootstrap\Log\20250319_191937\Summary_LAPTOP-H6D1IIMQ_20250319_191937.txt)

**Close**

# Màn hình kết nối đến SQL Server trong SQL Server Management Studio (SSMS).





Đây là giao diện của Microsoft SQL Server Management Studio (SSMS), dùng để quản lý và thao tác với SQL Server.