



DB Server Setup Manual



Warranty

All products manufactured by ICP DAS are warranted against defective materials for one year from the date of delivery to the original purchaser.

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If you have any questions, please feel free to contact us. We will provide you with comprehensive consultation services.

Email: service@icpdas.com

Tables of Content

Chapter 1 MS SQL SERVER Installation	3
1.1 Download SQL Server from the website and installation steps.	3
1.2 After installation, the SQL Server Installation Center will open.	5
1.3 Configure SQL Server settings.....	12
1.4 Add a firewall rule to enable port 1433.....	15
1.5 Download SSMS from the official website and install it.....	19
1.6 Use SSMS to manage databases on SQL Server.....	19
 Chapter 2 MySQL Installation	 21
2.1 Download SQL Server from the website and installation steps.	21
2.2 Manage MySQL databases using XAMPP.....	25

Chapter 1 MS SQL SERVER Installation

1.1 Download SQL Server from the website and installation steps.

<https://www.microsoft.com/en/sql-server/sql-server-downloads>

Or, download a free specialized edition



Developer

SQL Server 2022 Developer is a full-featured free edition, licensed for use as a development and test database in a non-production environment.

Download now

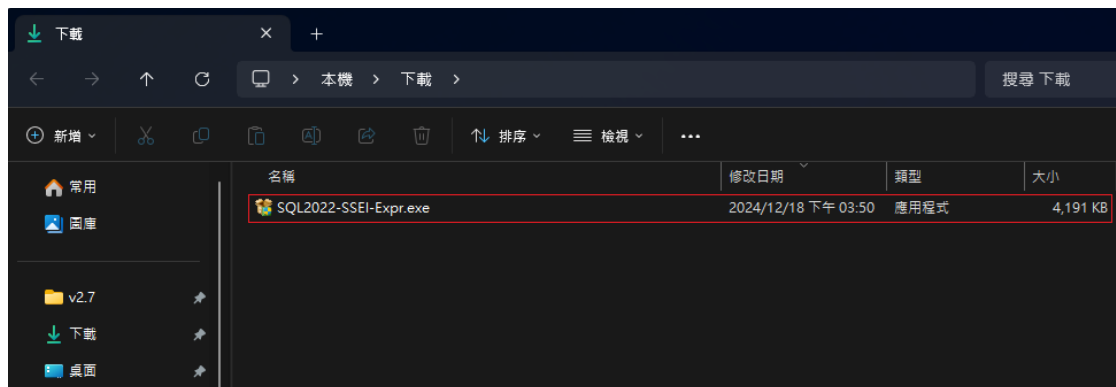


Express

SQL Server 2022 Express is a free edition of SQL Server, ideal for development and production for desktop, web, and small server applications.

Download now

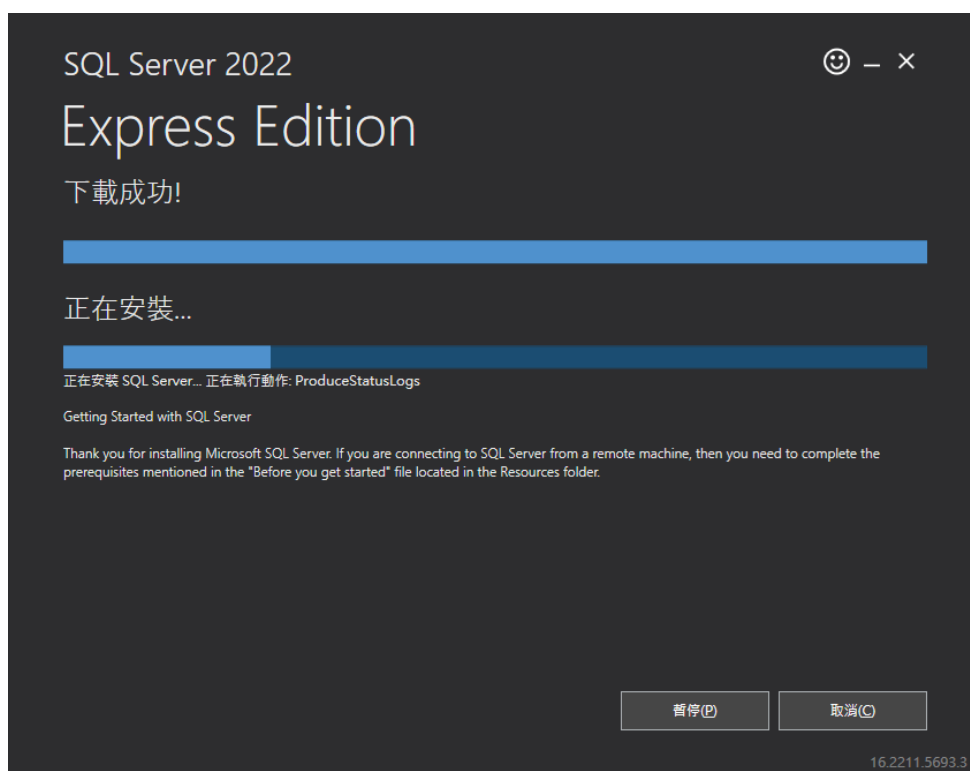
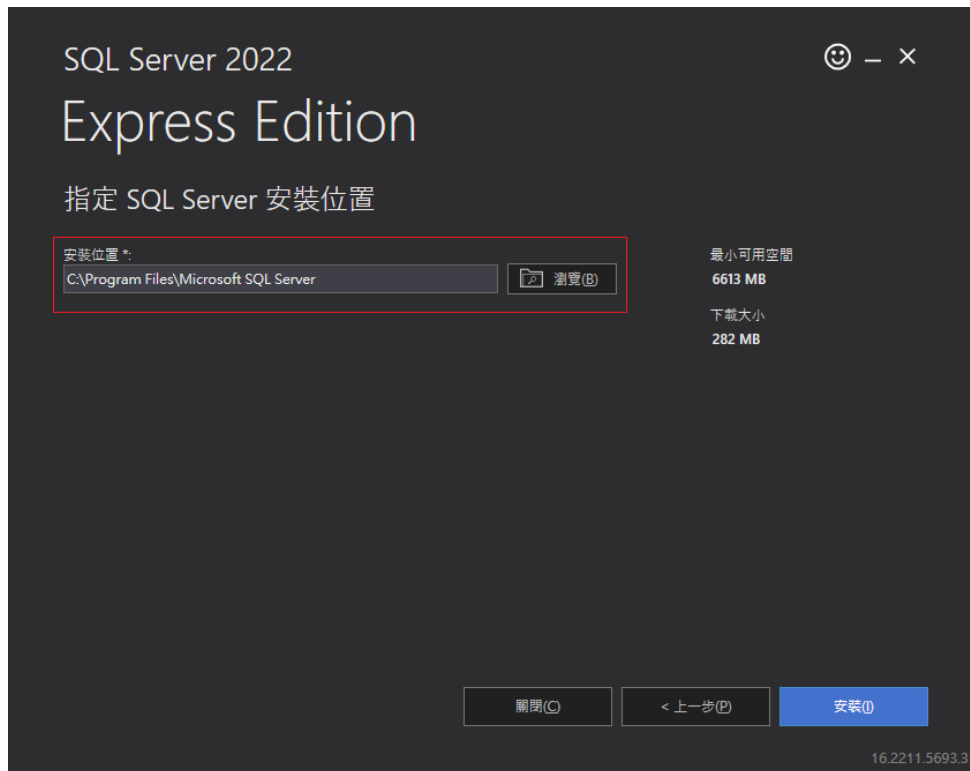
Click the download button in the red circle to start the download.



Run the downloaded file to begin the installation process.



Run the file and select 'Basic' installation type.

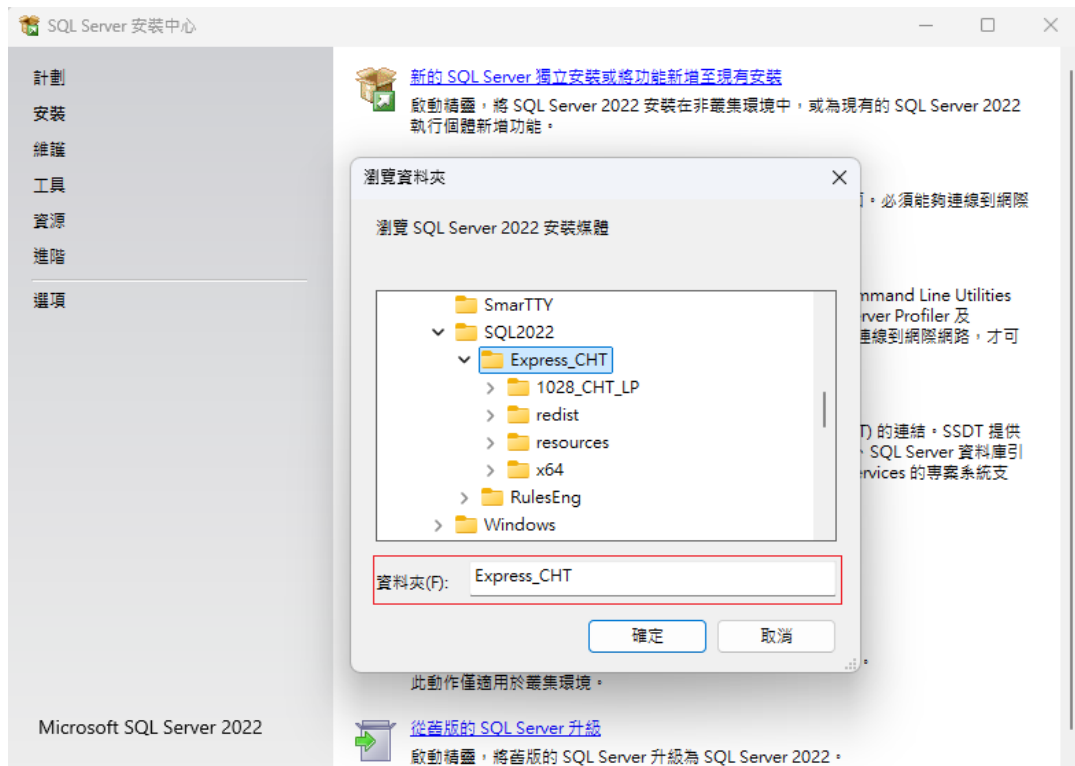


Follow the instructions to proceed with the installation.

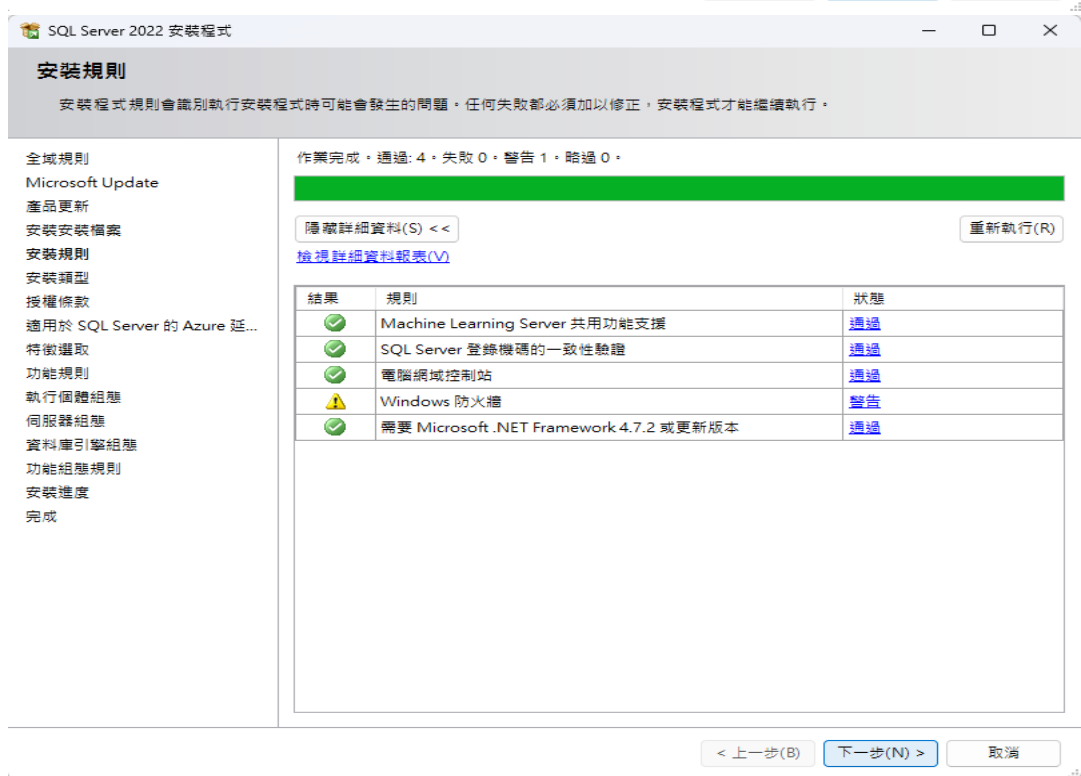
1.2 After installation, the SQL Server Installation Center will open.



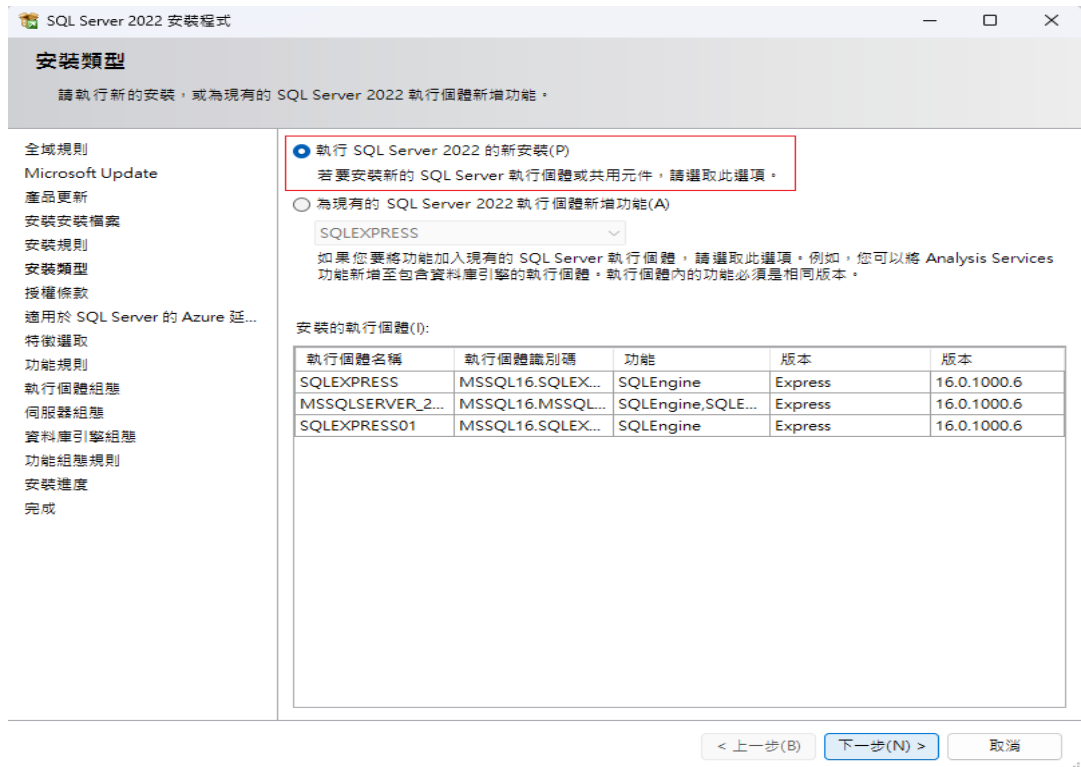
Select Install -> [New SQL Server stand-alone installation or add features to an existing installation]



The default installation media path is in the Express_CHT folder under the SQL2022 folder.



Click Next to proceed with the installation steps.



Select 'Perform a new installation of SQL Server 2022' and click Next to continue the installation.



Click Next to proceed with the installation steps.

SQL Server 2022 安裝程式

適用於 SQL Server 的 Azure 延伸模組

必須要有適用於 SQL Server 的 Azure 延伸模組才可啟用適用於雲端的 Microsoft Defender、Purview、Azure Active Directory。

若要安裝適用於 SQL Server 的 Azure 延伸模組，請提供您的 Azure 帳戶或服務主體，以向 Azure 驗證 SQL Server 執行個體。您也必須提供要註冊此實例的訂閱帳戶識別碼、資源群組、區域及租用戶識別碼。如需每個參數的詳細資訊，請造訪 <https://aka.ms/arc-sql-server>。

☐ 適用於 SQL Server 的 Azure 延

☐ 使用 Azure 登入
☒ 使用服務主體

Azure 服務主體識別碼*
 Azure 服務主體秘密*

Azure 訂閱帳戶識別碼*
 Azure 資源群組*
 Azure 區域*
 Azure 租用戶識別碼*
 Proxy 伺服器 URL (選擇性)

Do not select any options and click Next to proceed with the installation steps.

SQL Server 2022 安裝程式

特徵選取

選取要安裝的 Express 功能。

☒ 執行個體功能
☒ 資料庫引擎服務
☐ SQL Server 複寫
☐ 共用功能
☐ 可轉散發功能

執行個體根目錄(R): ...
 共用功能目錄(S): ...
 共用功能目錄 (x86)(X): ...

Check 'Database Engine Services' and click Next to proceed with the installation steps.

SQL Server 2022 安裝程式

執行個體組態

指定 SQL Server 執行個體的名稱和執行個體識別碼。執行個體識別碼會成為安裝路徑的一部分。

全域規則

Microsoft Update

產品更新

安裝安裝檔案

安裝規則

安裝類型

授權條款

適用於 SQL Server 的 Azure 延...

特徵選取

功能規則

執行個體組態

伺服器組態

資料庫引擎組態

功能組態規則

安裝進度

完成

☐ 預設執行個體(D)

☒ 具名執行個體(A): *

執行個體識別碼(I):

SQL Server 目錄: C:\Program Files\Microsoft SQL Server\MSSQL16.

安裝的執行個體(L):

執行個體名稱	執行個體識別碼	功能	版本	版本
SQLEXPRESS	MSSQL16.SQLEXPRESS	SQLEngine	Express	16.0.1000.6
MSSQLSERVER_2024	MSSQL16.MSSQLSERVER	SQLEngine,SQL...	Express	16.0.1000.6
SQLEXPRESS01	MSSQL16.SQLEXPRESS01	SQLEngine	Express	16.0.1000.6

< 上一步(B) 下一步(N) > 取消

In 'Named Instance,' enter a name to represent the SQL Server, which can be defined by the user, and click Next to proceed with the installation steps.

SQL Server 2022 安裝程式

伺服器組態

指定服務帳戶和定序組態。

全域規則

Microsoft Update

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功能規則

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資料庫引擎組態

功能組態規則

安裝進度

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服務帳戶 定序

Microsoft 建議您每個 SQL Server 服務都使用個別的帳戶(M)。

服務	帳戶名稱	密碼	啟動類型
SQL Server Database Engine	NT Service\MSSQL\$M...		自動
SQL Server Browser	NT AUTHORITY\LOCAL...		已停用

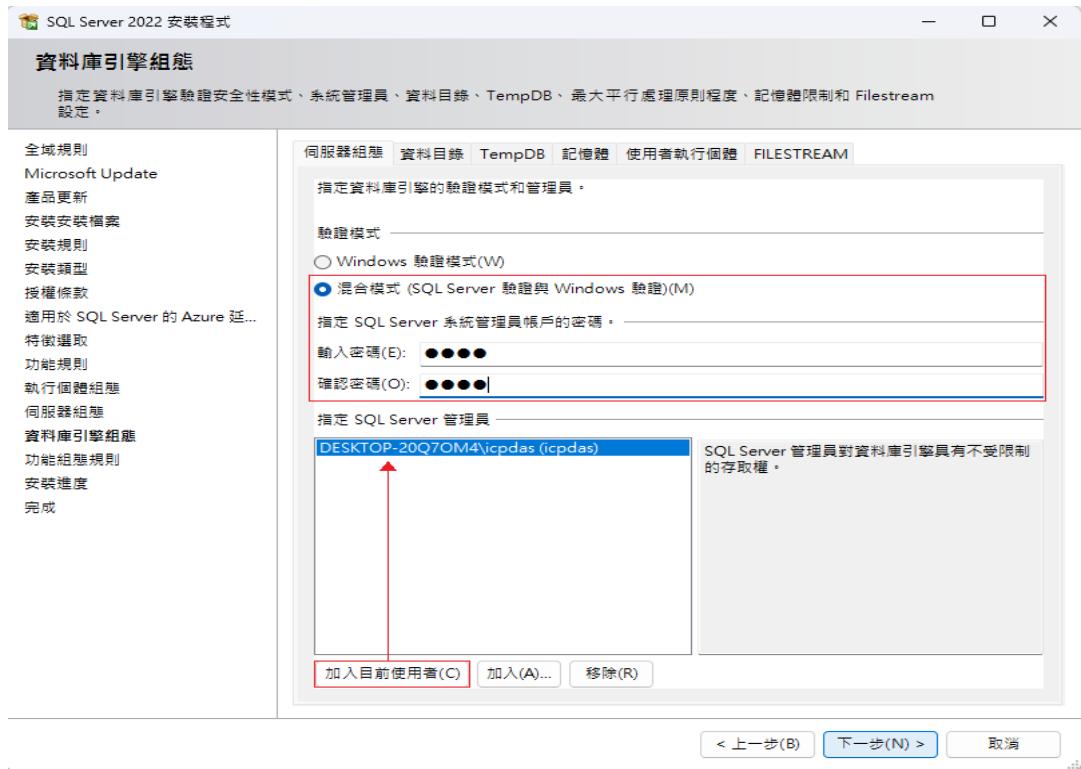
☐ 對 SQL Server 資料庫引擎服務授與「執行磁碟區維護工作」權限(G)

此權限藉由避免將資料寫入靜態來啟用檔案立即初始化。如此可能會允許存取已刪除的內容，而導致資料遺漏。

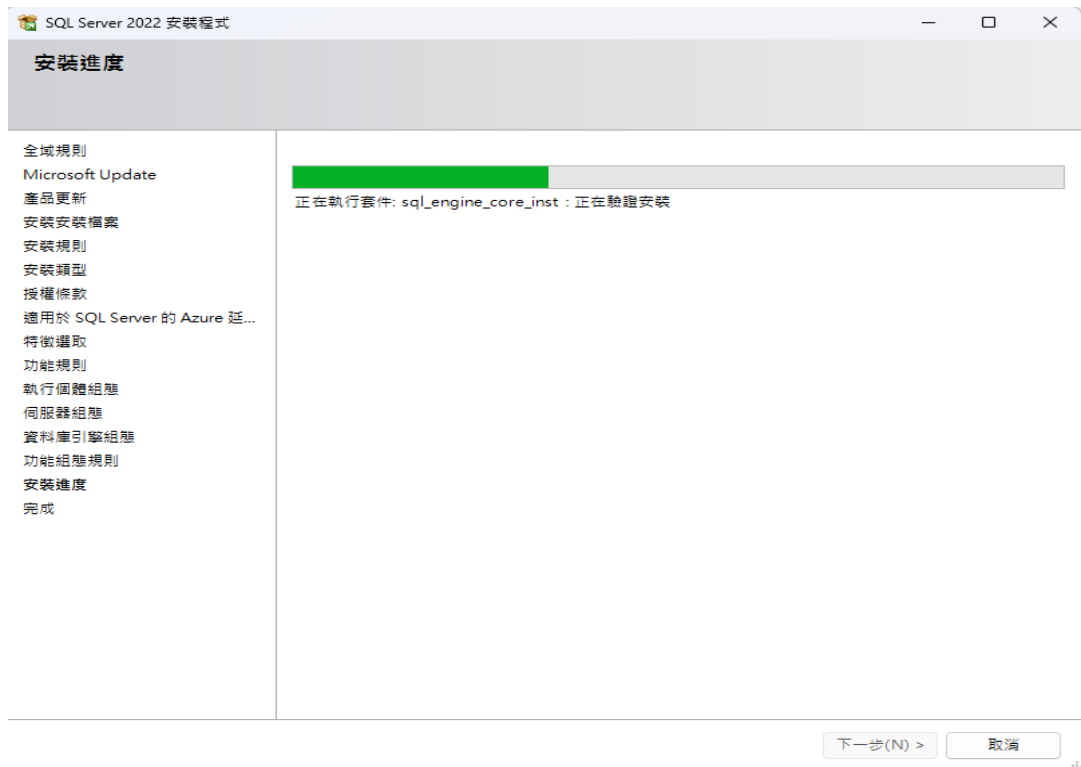
[按一下此處以取得詳細資料](#)

< 上一步(B) 下一步(N) > 取消

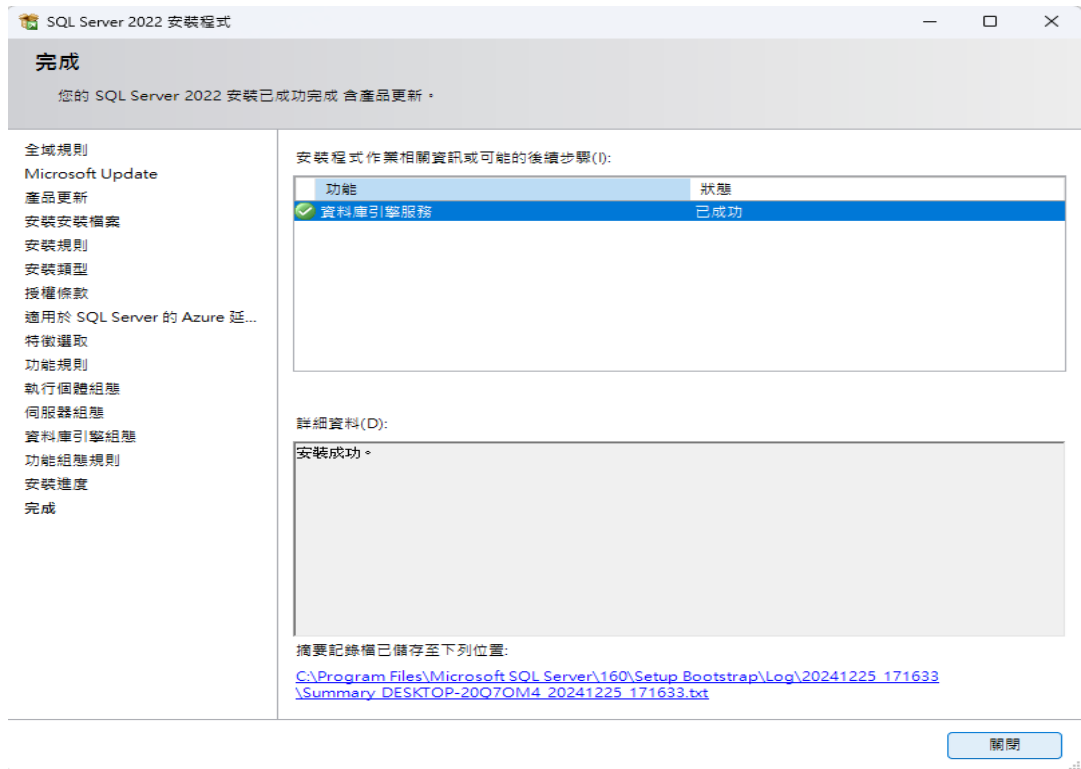
Ensure the startup type for SQL Server Database Engine is set to 'Automatic,' and click Next to proceed with the installation steps.



Select Mixed Mode, enter the desired password, click 'Add Current User,' and then click Next to proceed with the installation steps.

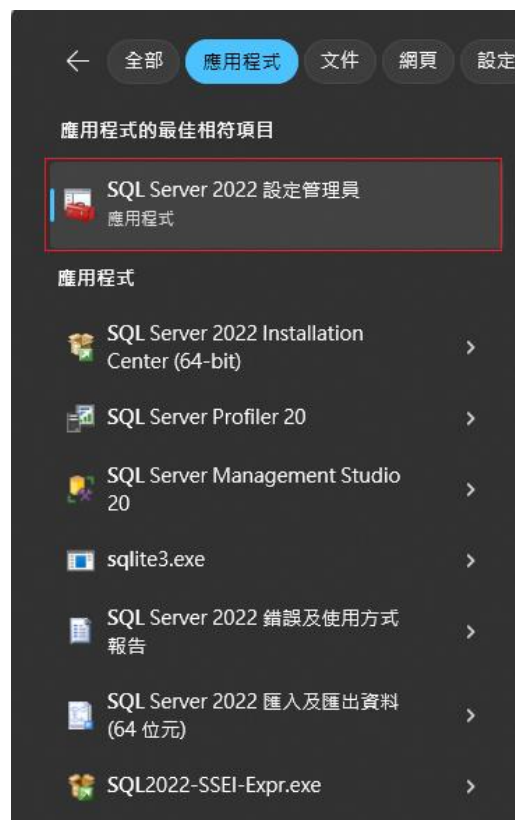


Wait for the progress bar to complete to finish the installation.

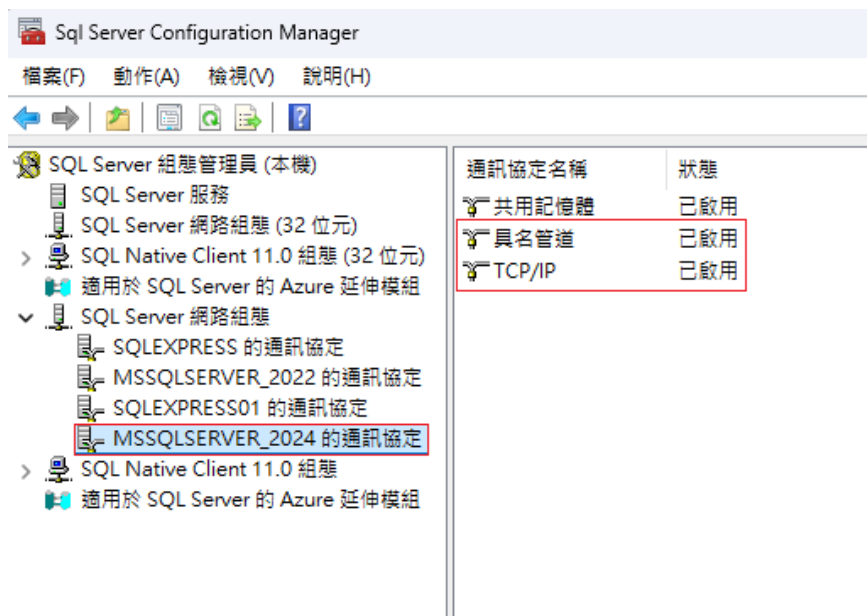


When you see this screen, it means SQL Server has been successfully installed. Click Close to finish.

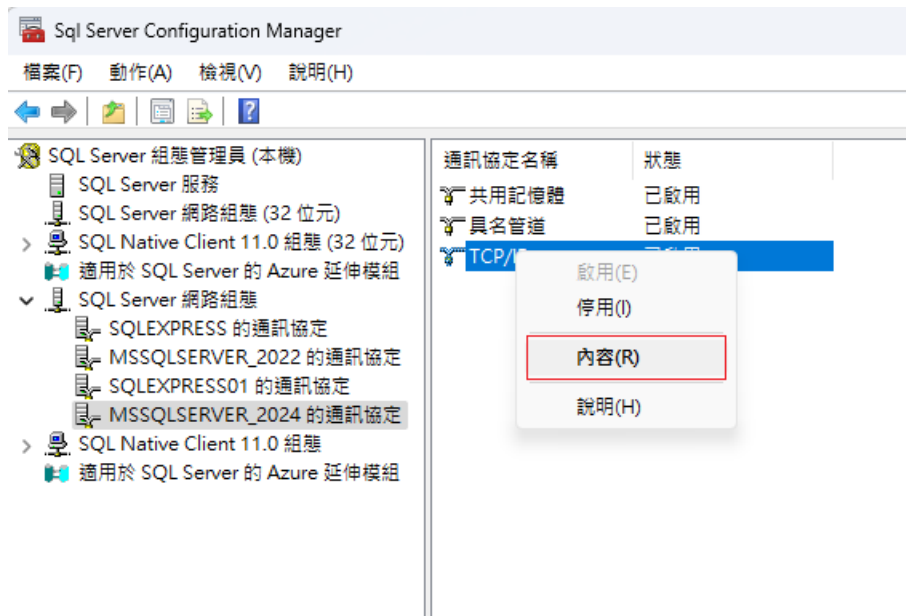
1.3 Configure SQL Server settings.



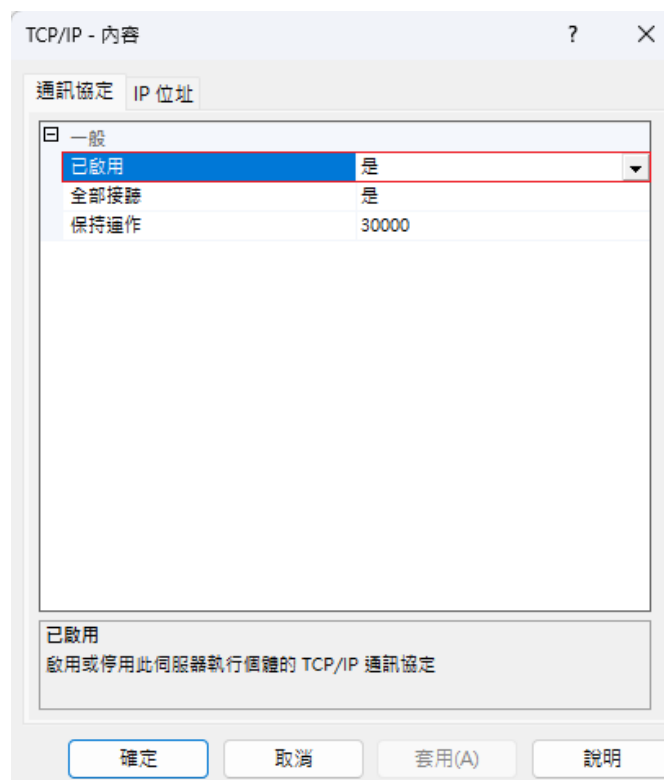
Search for 'SQL Server 2022 Configuration Manager' in the Start menu and run it.



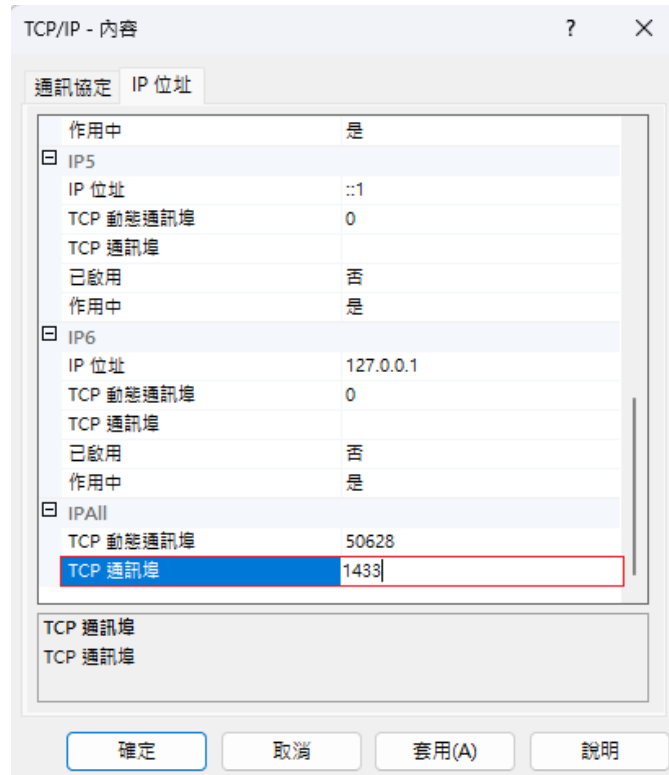
Click the SQL Server protocol you just created under SQL Server Network Configuration in the left menu, and ensure the status in the red circle on the right is 'Enabled.'



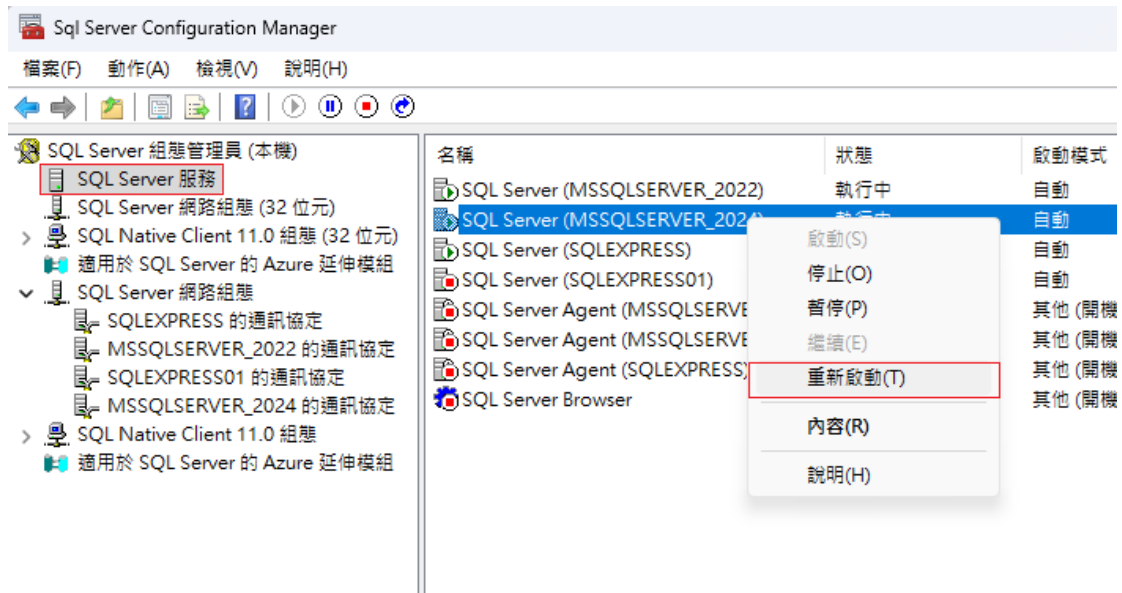
Right-click TCP/IP and select 'Properties.'



Verify that the 'Enabled' status is displayed as 'Yes' in the Protocols menu.

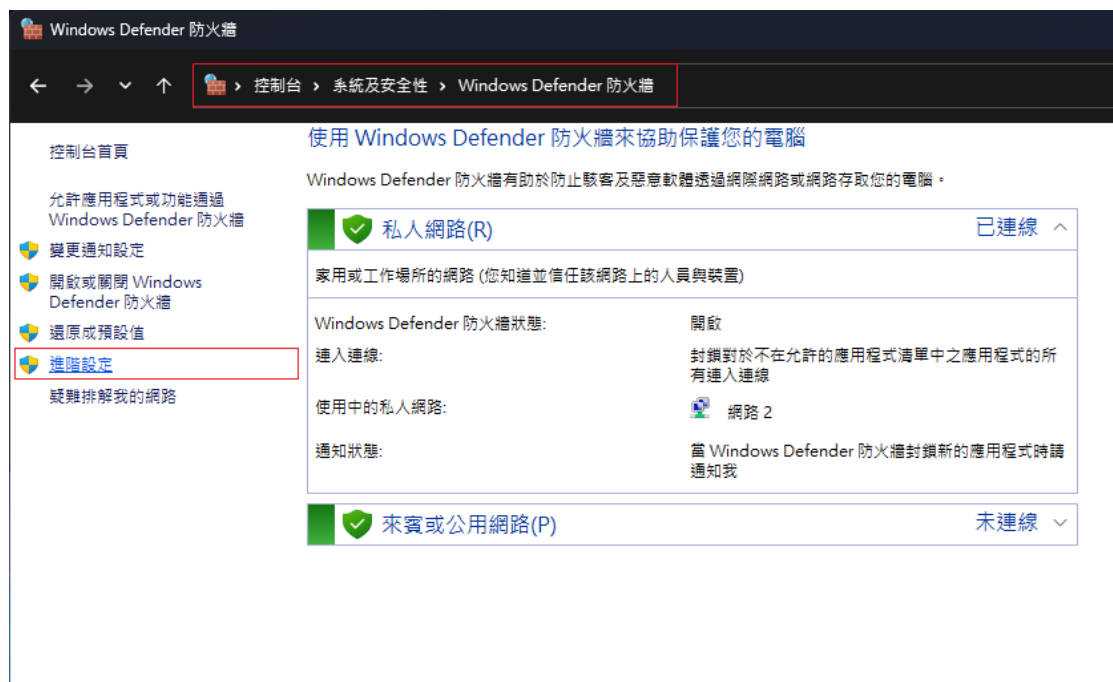


In the 'IP Addresses' menu, enter TCP port 1433 under IPAll, then click Apply and OK.

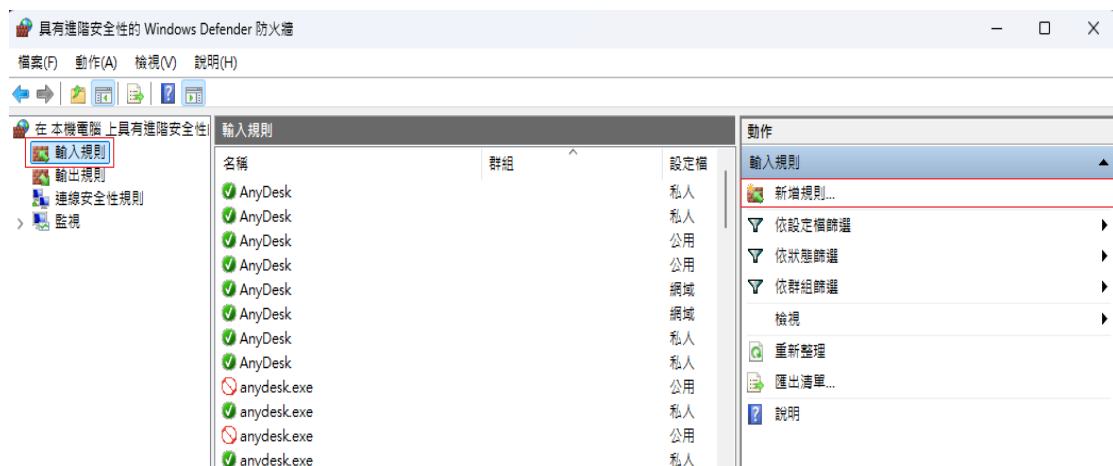


In the left menu, select 'SQL Server Services,' then right-click the SQL Server service you just created in the right pane and choose 'Restart' to apply the previous settings.

1.4 Add a firewall rule to enable port 1433.



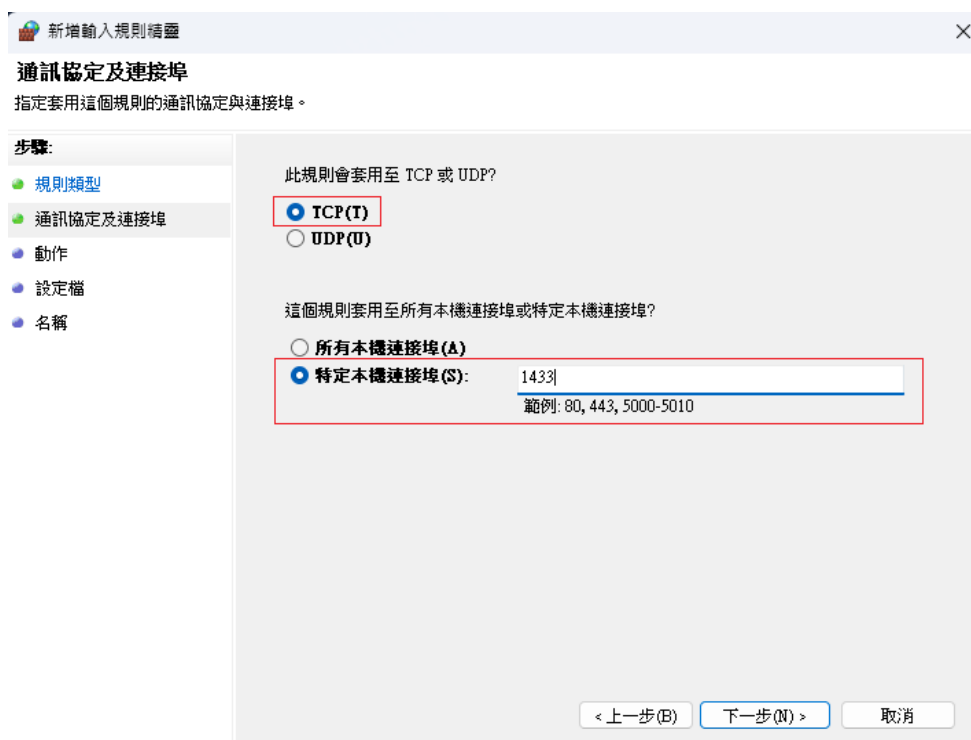
Open Windows Defender Firewall and select 'Advanced settings.'



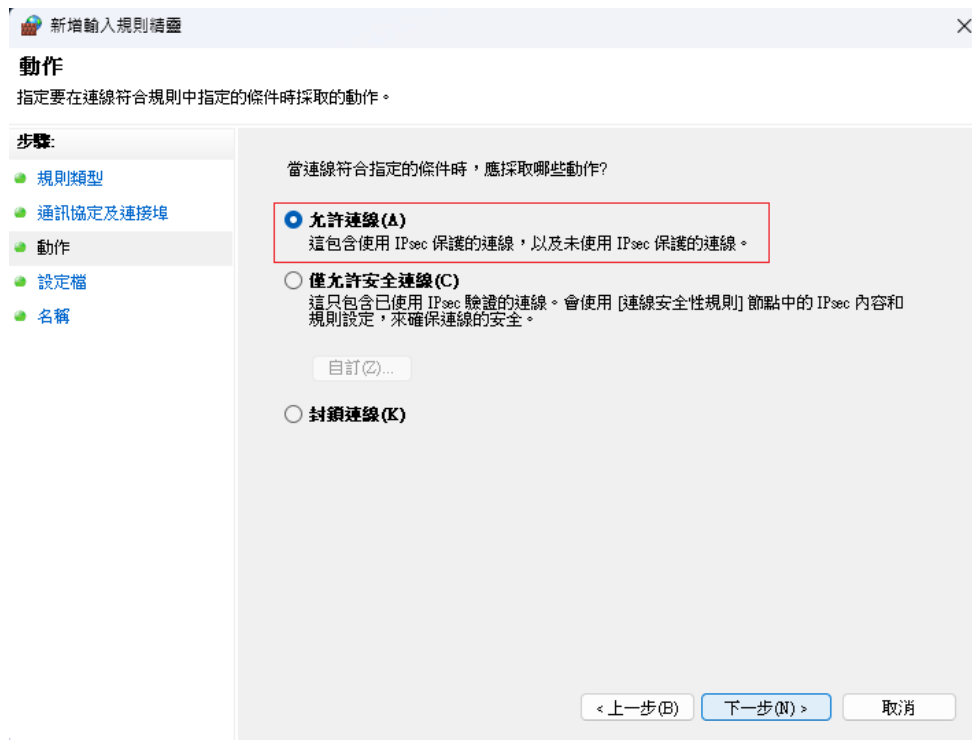
First, click 'Inbound Rules' in the left menu, then click 'New Rule' in the right menu.



Select 'Port' and click Next to continue with the configuration steps.



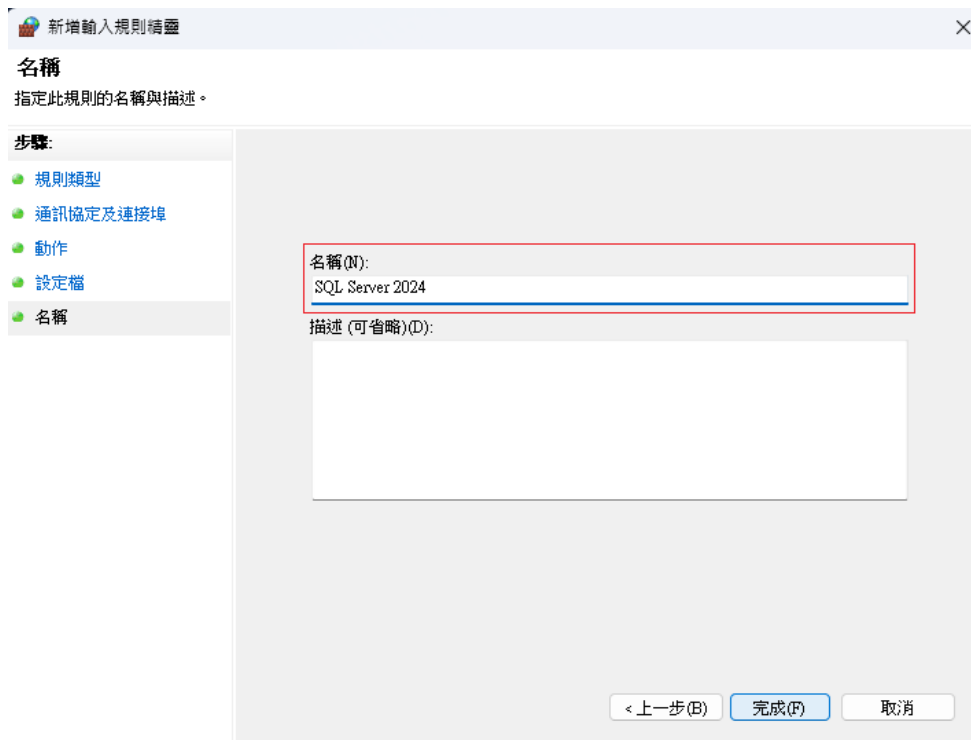
Select 'TCP' then choose 'Specific local ports' and enter 1433. Finally, click Next to continue with the configuration steps.



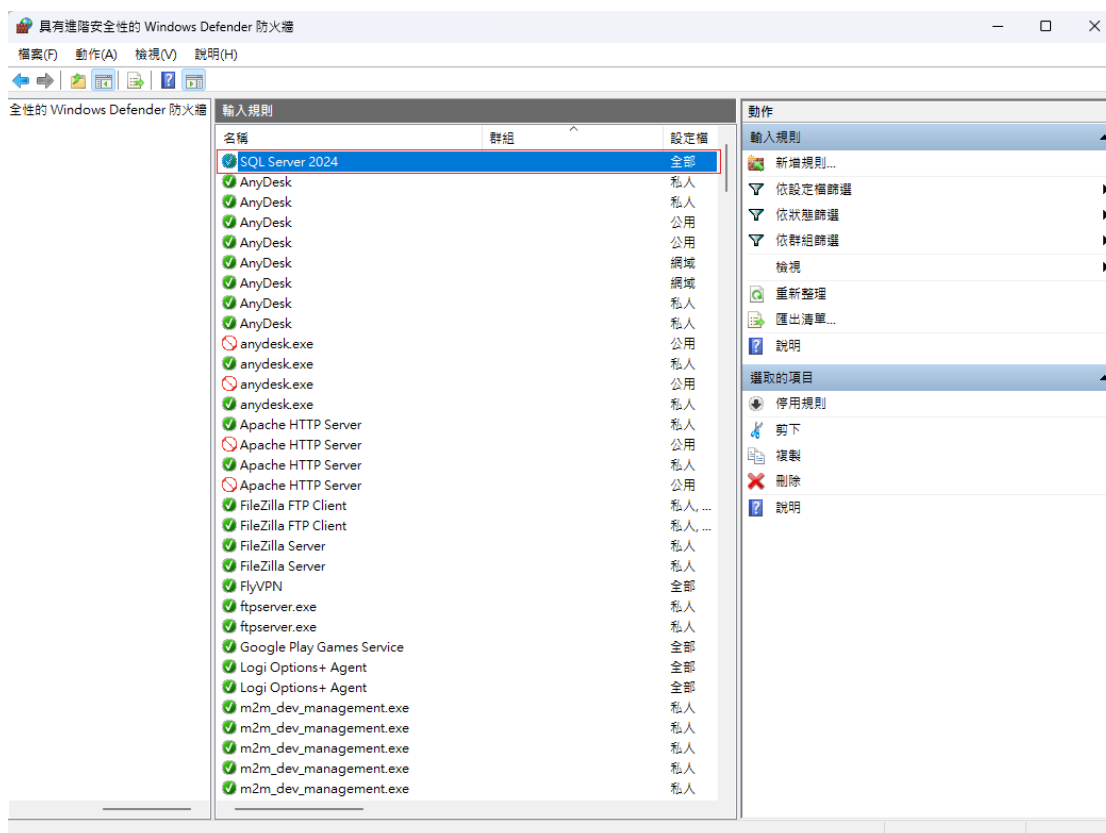
Select 'Allow the connection' and click Next to continue with the configuration steps.



Check all the options in the red circle and click Next to continue with the configuration steps.



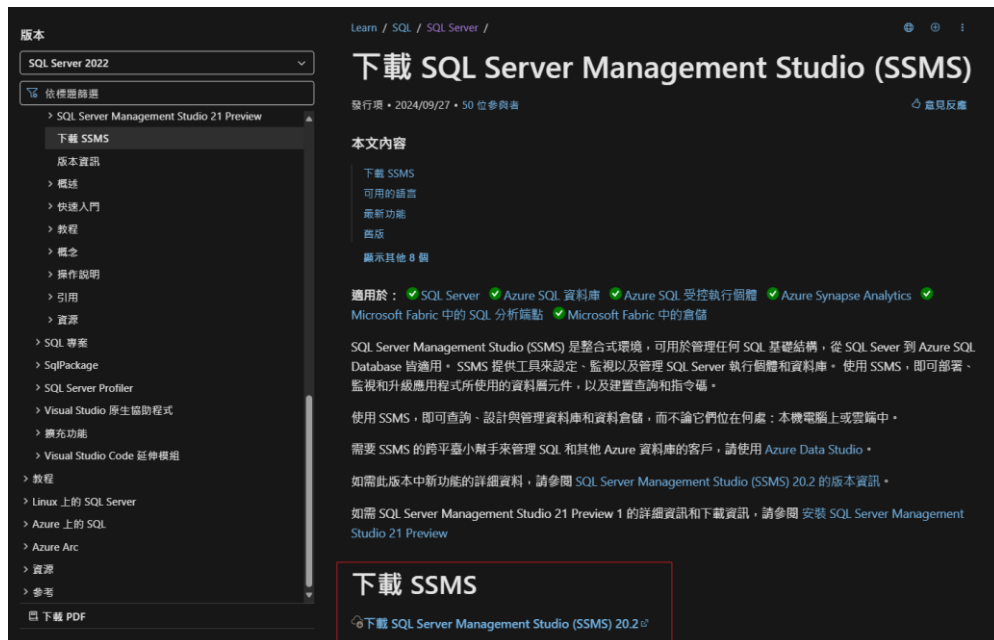
Enter an easily recognizable name and click Finish to complete the configuration.



You can see the newly added rule in the middle pane.

1.5 Download SSMS from the official website and install it.

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

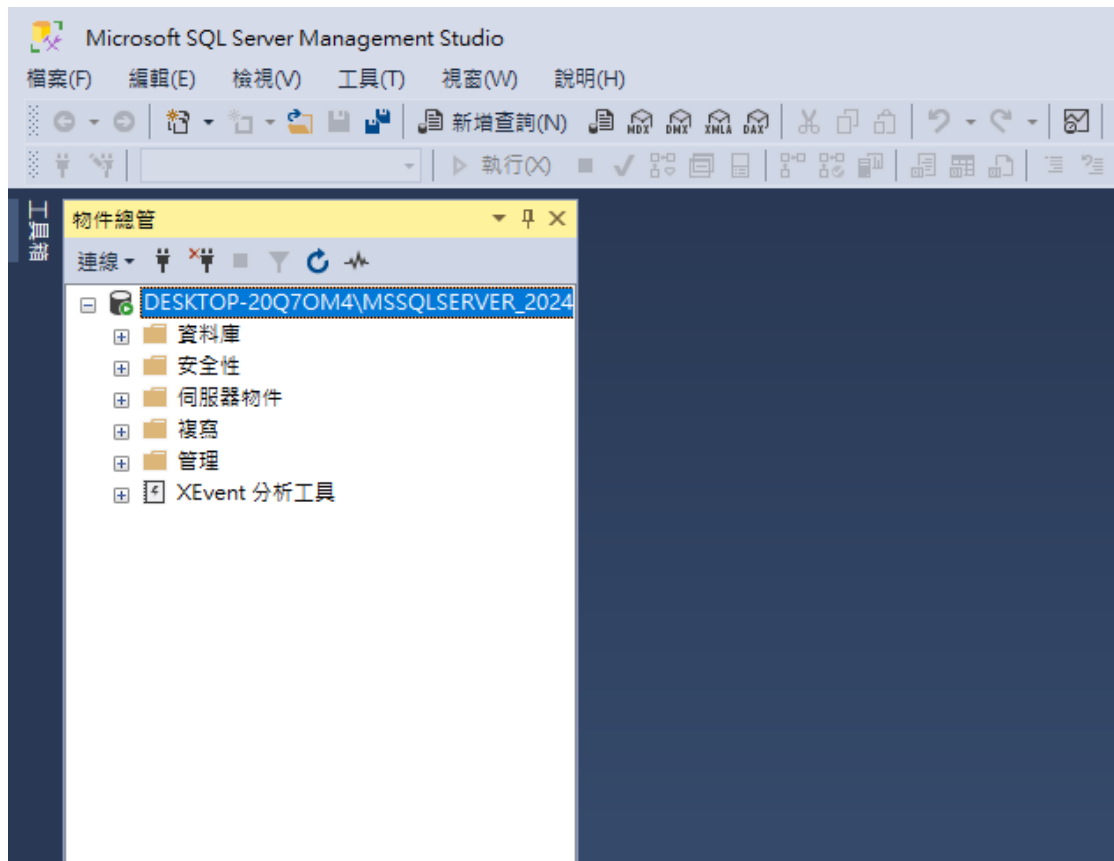


Download and follow the instructions to install.

1.6 Use SSMS to manage databases on SQL Server.



When opening SSMS, the login interface will appear automatically. Select the server you just created, choose SQL Server authentication for the authentication method, and check 'Trust server certificate' under the connection security tab.



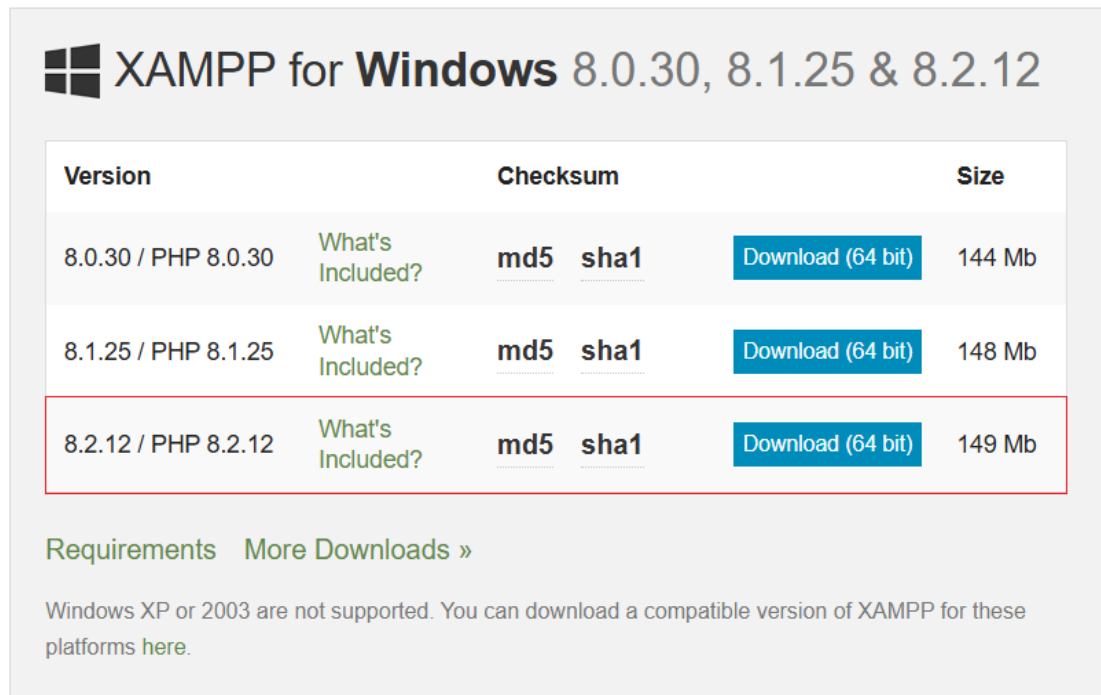
Once connected to SQL Server successfully, you can start working. For detailed instructions, please refer to the official Microsoft manual, link below:
<https://learn.microsoft.com/zh-tw/sql/sql-server/?view=sql-server-ver16>

Chapter 2 MySQL Installation

2.1 Download SQL Server from the website and installation steps.

https://www.apachefriends.org/zh_tw/download.html

XAMPP is an easy to install Apache distribution containing MariaDB, PHP, and Perl. Just download and start the installer. It's that easy. Installers created using [InstallBuilder](#).



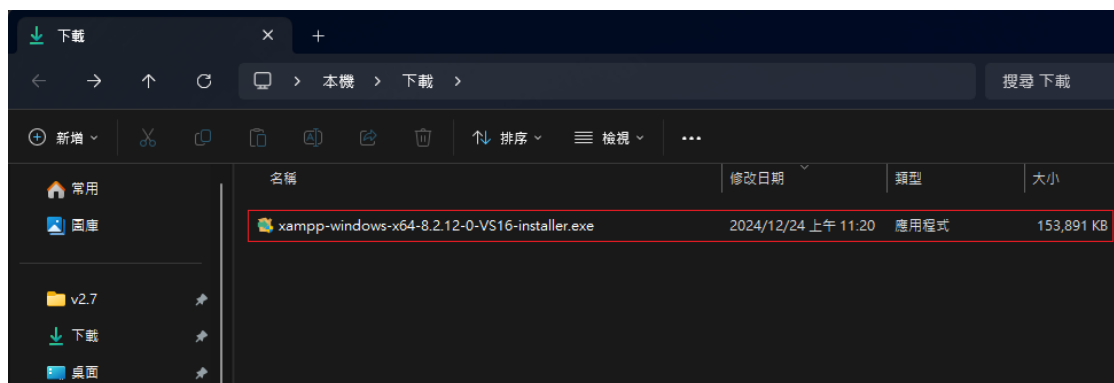
XAMPP for Windows 8.0.30, 8.1.25 & 8.2.12

Version	Checksum	Size
8.0.30 / PHP 8.0.30	What's Included? md5 sha1 Download (64 bit)	144 Mb
8.1.25 / PHP 8.1.25	What's Included? md5 sha1 Download (64 bit)	148 Mb
8.2.12 / PHP 8.2.12	What's Included? md5 sha1 Download (64 bit)	149 Mb

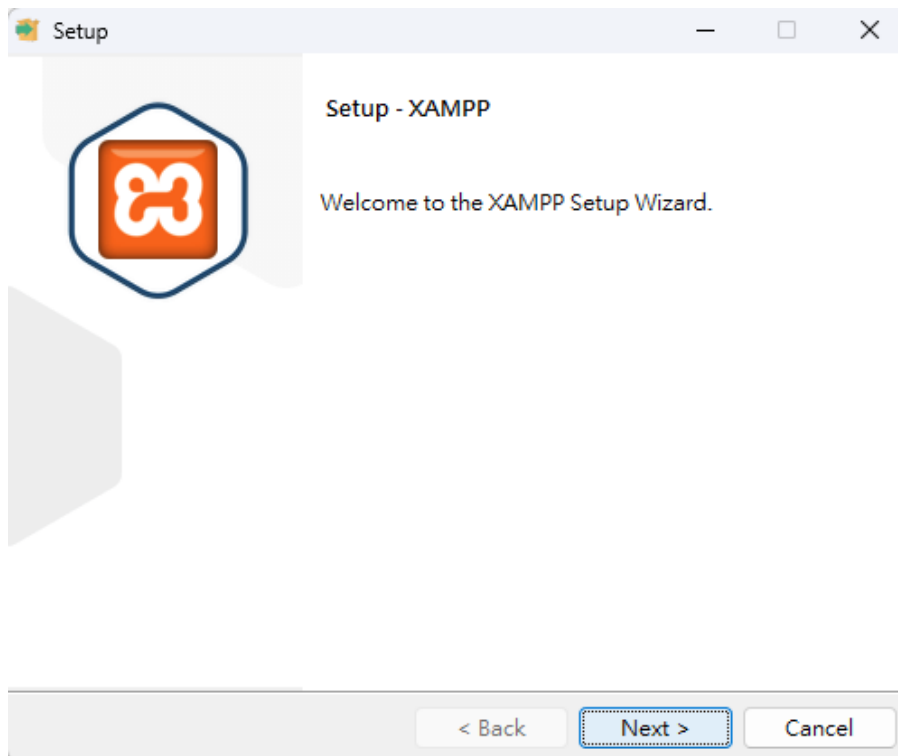
[Requirements](#) [More Downloads »](#)

Windows XP or 2003 are not supported. You can download a compatible version of XAMPP for these platforms [here](#).

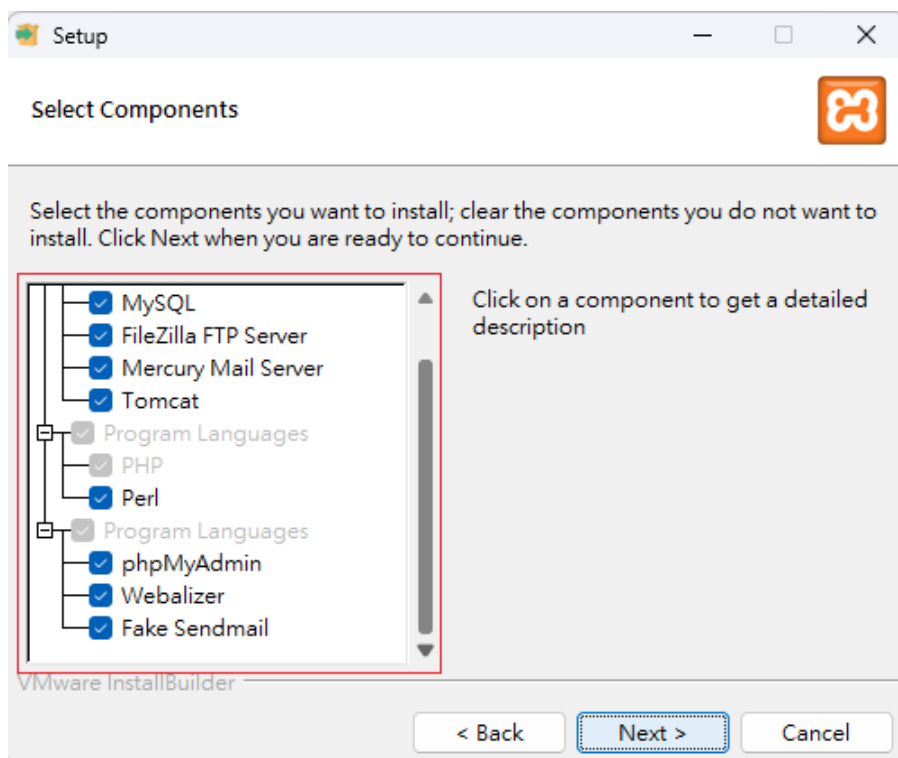
Select any version to download, but it is recommended to download the latest version.



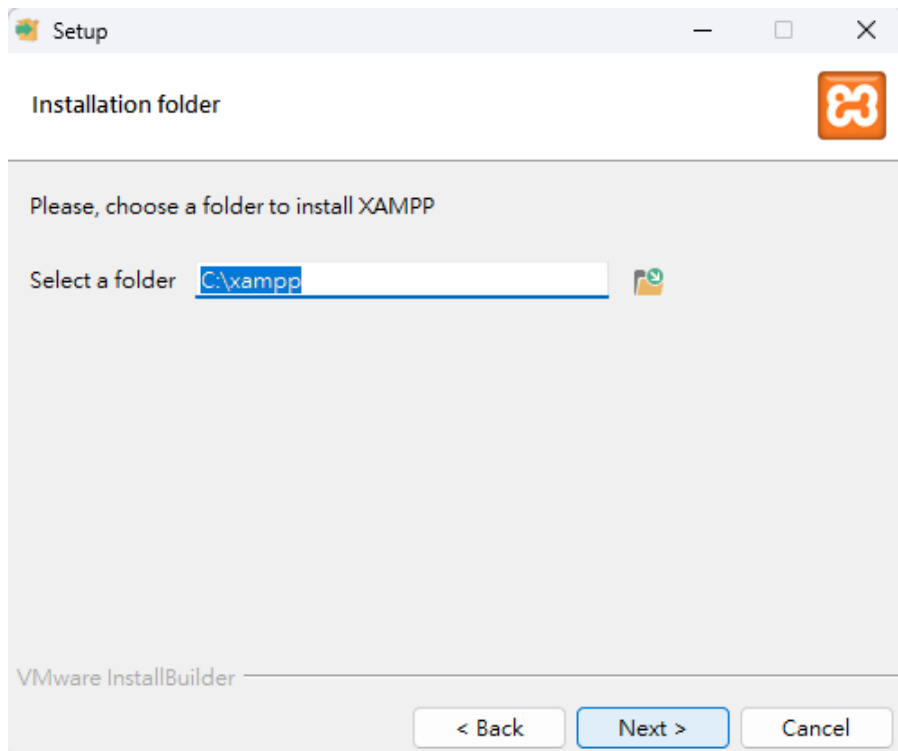
Run the downloaded file to begin the installation process.



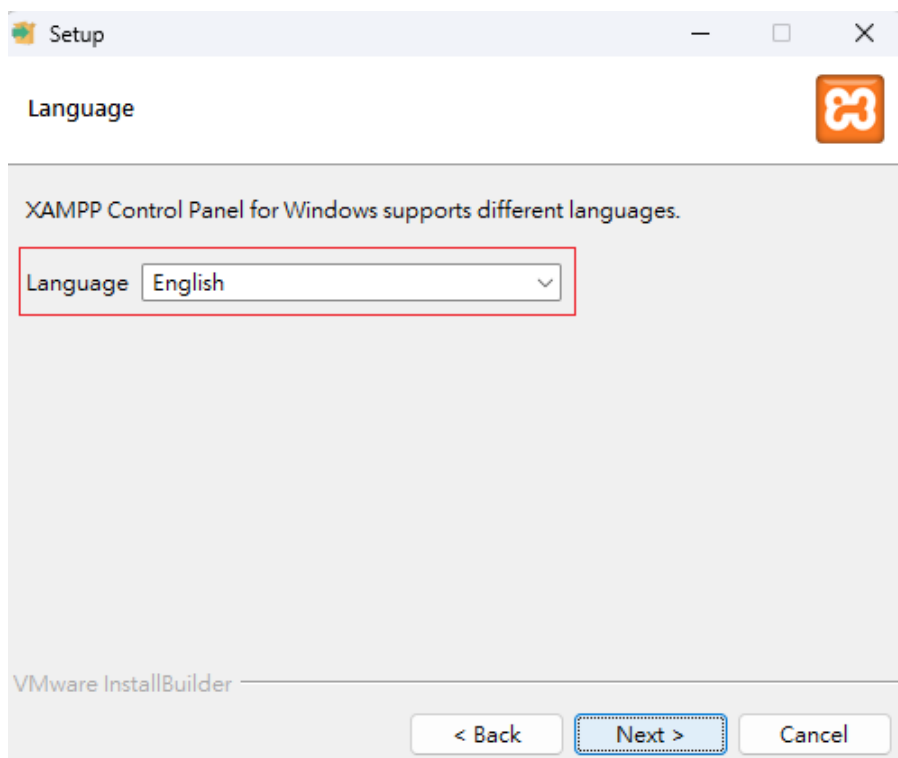
Click Next to continue with the installation steps.



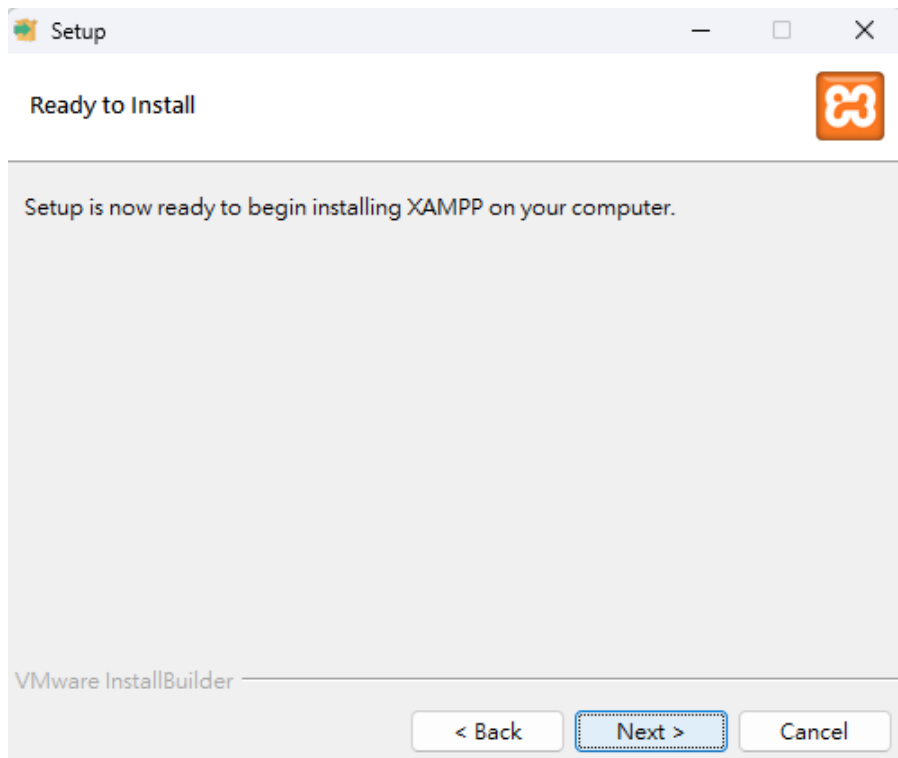
Check all the options in the red box, then click Next to continue with the installation steps.



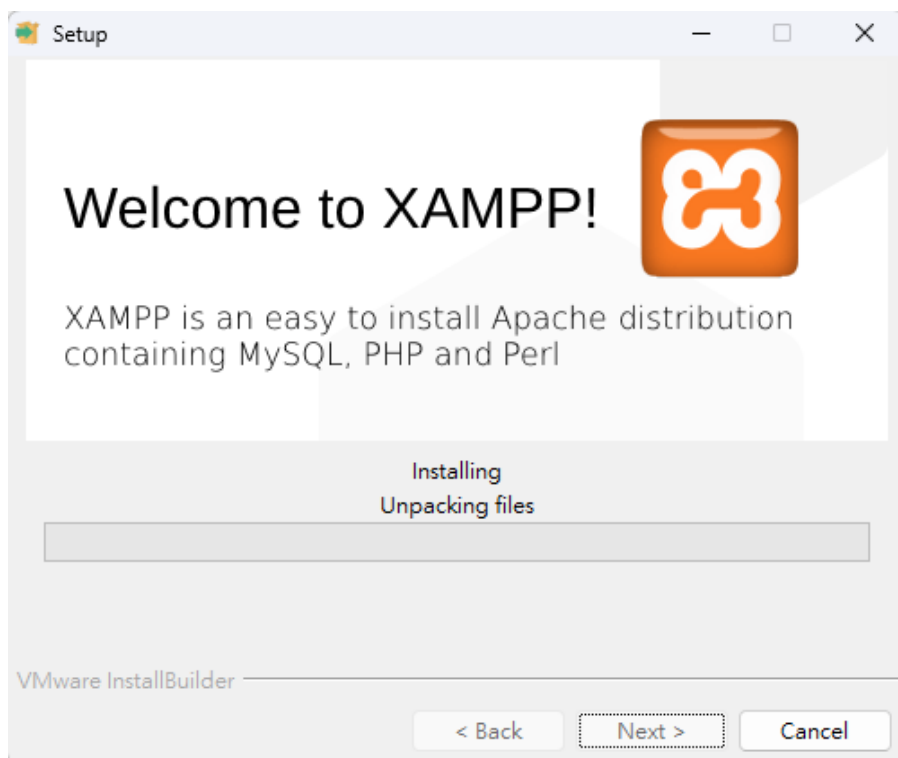
Use the default installation path and click Next to continue with the installation steps.



Use the default English language and click Next to continue with the installation steps.

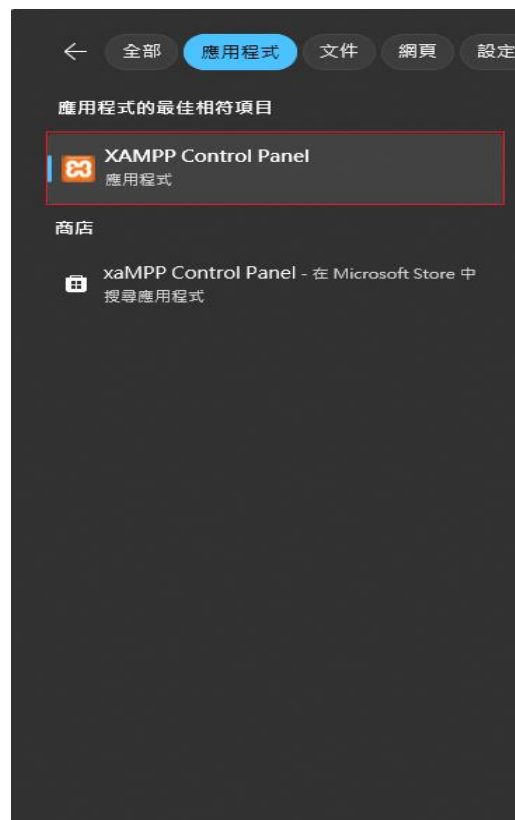


Click Next to continue with the installation steps.

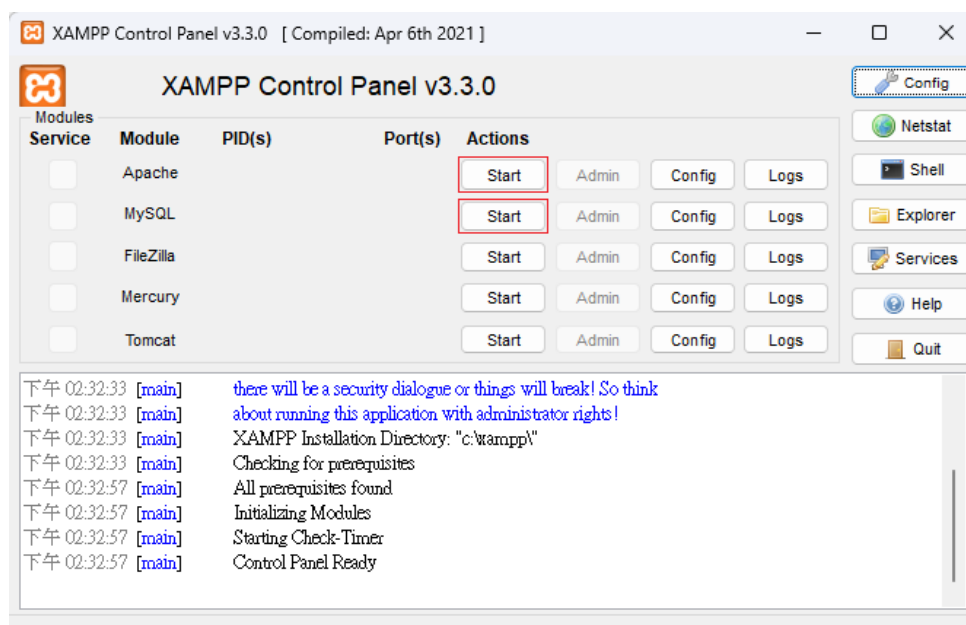


Wait for the installation progress bar to complete to finish all installation steps.

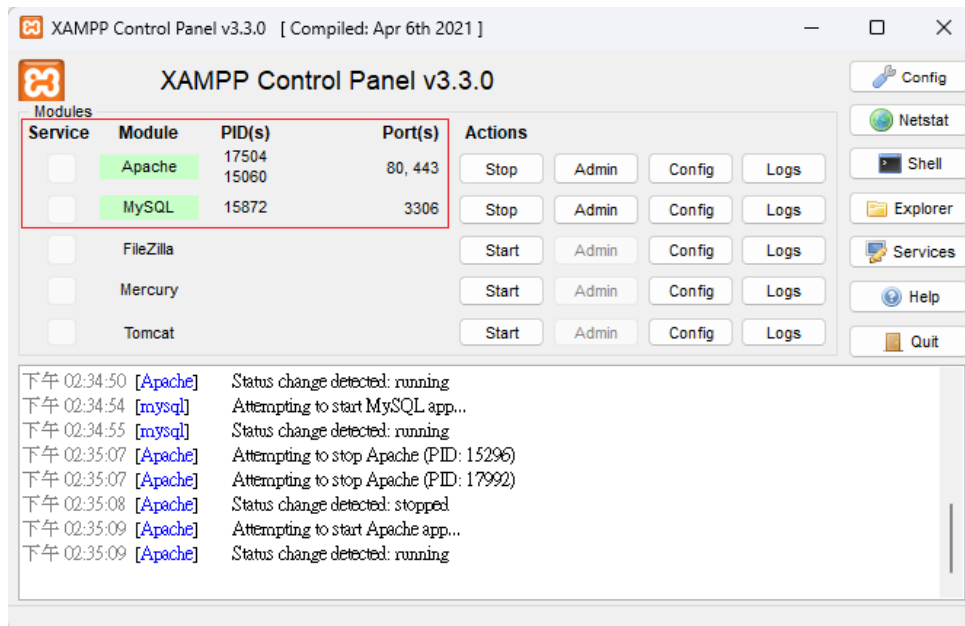
2.2 Manage MySQL databases using XAMPP.



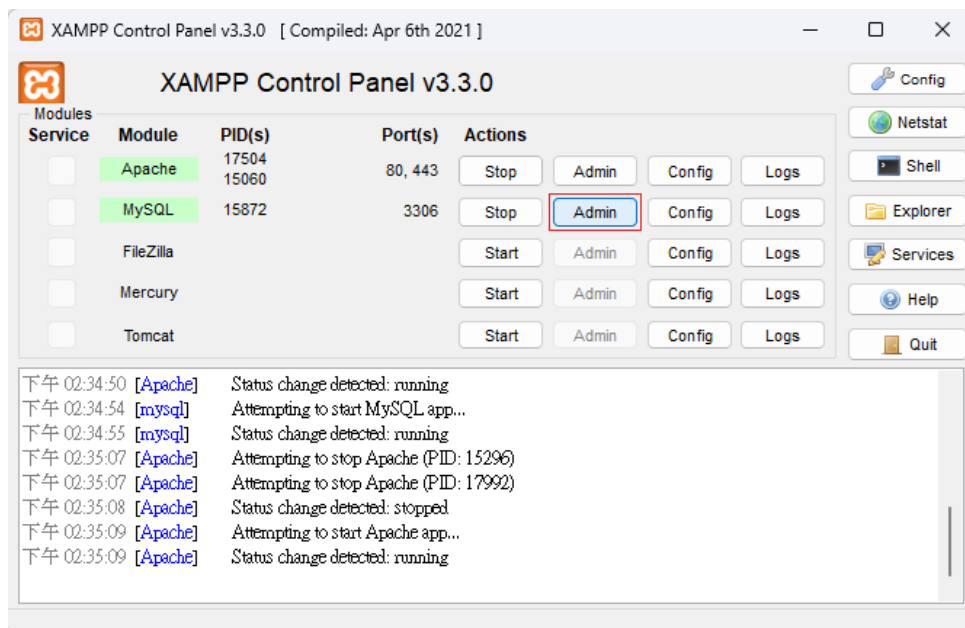
Search for 'XAMPP Control Panel' in the Start menu and run it.



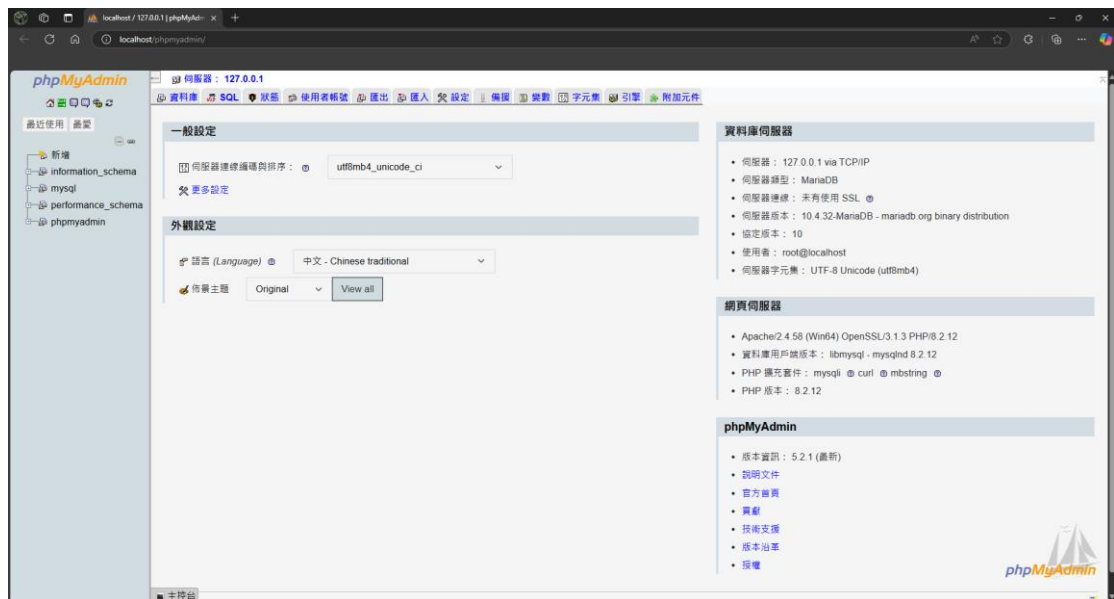
Click the Start buttons for Apache and MySQL.



When the text for Apache and MySQL shows a green background, it indicates that the server is running. You can also see the individual ports next to them.



Click the Admin button for MySQL to open the web page with MySQL management features.



On this page, you can perform database management tasks and settings