# TYPICAL Constallation Guide



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# 1 Introduction

The purpose of this document is to help a user with installing Typical Manager. For Typical Manager to work, some additional software has to be installed. The install is guided by the Typical Manager install wizard. This wizard contains helpful links for installing Typical Manager and the additional components.

For Typical Manager to run on your system, it needs to meet the system requirements. These can be found in a separate document: Typical Manager system requirements.

#### RUN THE SETUP WITH RIGHT MOUSE CLICK "RUN AS ADMINISTRATOR"



The following components are required to run Typical Manager successfully:

• SQL Server or SQL Express (Standalone and server installation).

Typical Manager can be installed in two ways:

• **Stand-alone**, both Typical Manager and the SQL database run from the same computer.

or

- Server, This computer holds the Typical Manager SQL database.
- **Client**, Typical manager connects to a SQL server in the network.

The user is free to change the installation options.

Typical Manager install wizard can be started by executing setup.exe from the installation folder. The installation wizard will first check if .Net framework 4.0 is installed. If this is not the case, Typical Manager install wizard will offer you to install it. After installation of .NET framework 4.0, a reboot is required.

# 2 Install Typical Manager

Step to step installation of Typical Manager and it's components.



#### Click Next.



Read the software license agreement carefully.

Select I accept the terms in the license agreement and click Next.

😔 Typical Manager Setup		×
Configure Shortcuts		
Create application shortcuts		9
Create shortcuts for Typical Manage	er in the following locations:	
🔽 Desktop		
Start Menu Programs fold	der	
Advanced Testalley		
Advanced Installer	Rade Nove	t > Cancel
	S DOLK NEXT	Cancel

Choose which shortcuts you want to apply and Click Next

s sphear manager setup		
Optional features to install		
Select the features to be installed		9
Typical Manager		
Typical Manager Control Center		
Select All		
Select All vanced Installer		

Select features to install

- **Typical Manager** Typical Manager application.
- **Typical Manager Control Center** Administrators tool to create/update and maintain Typical Manager databases.

Click	Next.
Chick	HUCKU.

🚽 Typical Manager Setup	S <del>o</del> s		×
Select Installation Folder			
This is the folder where Typical Manager will be installed.		0	Y
<pre>ypical Manager Setup elect Installation Folder This is the folder where Typical Manager will be installed. To install in this folder, click "Next". To install to a different folder, enter "Browse". iolder: C:\Program Files (x86)\Yellax\Typical Manager\ </pre>	enter it be	low or dic	k
Folder:			
C:\Program Files (x86)\Yellax\Typical Manager\		Browse	
dvanced Installer		<i>a</i>	
< Back Nex	t >	Cano	cel
< Back Nex	t >	Cano	cel

Click Next.



#### Click Install.



Click Finish.

#### 2.1 Install License

A working Internet connection is required to obtain a license. This is required each time typical manager is started.

A license key is given to the user/administrator by Yellax. An activation code for the license key will look like: XXXX-XXXX-XXXX-XXXX

This key can be used by multiple users (depending on the license configuration) For each Typical Manager user the key must be set the first time they start Typical Manager. It is important to keep this key secret within your organisation.

Copy or enter the License key in the corresponding field:

	Log	in		×
TYPICAL 🔄	MANAGER®	The engineerin	ig solution fo	r control systems
	Se Data User r Passi	erver base mame word	Typical	Alpha version Manager 2021
A dia a tan tan tan	ur dans a das Parkas			-
Authentication	windows authentication	*		
SQL user Hame				
License server				
License Key		>		
Hide options			ОК	Cancel

When a license is activated, the key is remembered for that user and device and the licence key is masked when starting Typical Manager.

# 3 Install SQL Server

**NOTE** IF A VERSION OF MICROSOFT SQL SERVER IS ALREADY INSTALLED, DO NOT INSTALL SQL SERVER. MANUALLY CREATE A NEW SERVER INSTANCE AND CONTINUE WITH THE INSTALLATION OF TYPICAL MANAGER.

We recommend to use SQL Server 2019 or newer in a production environment.

Here's a step-by-step installation guide for SQL Server 2022:

- Download the SQL Server 2022 installation files from the official Microsoft website. Ensure that you have the appropriate edition (e.g., Express, Standard, Enterprise) based on your requirements. https://www.microsoft.com/en-us/sql-server/sql-server-downloads
- 2. Double-click on the downloaded installation file to start the SQL Server Installation Center.
- 3. Choose 'Custom' to configure all necessary requirements during the installation process.

### Select an installation type:

#### Basic

Select Basic installation type to install the SQL Server Database Engine feature with default configuration.

#### Custom

Select Custom installation type to step through the SQL Server installation wizard and choose what you want to install. This installation type is detailed and takes longer than running the Basic install.

# Download Media

Download SQL Server setup files now and install them later on a machine of your choice.

#### 4. Specify installation location, then click "Next."



5. Wait until all setup files are acquired and proceed.



In the Installation Center, select "Installation" on the left-hand side and click on "New
 SQL Server stand-alone installation or add feature to an existing installation."

Planning		New SQL Server standalone installation or add features to an existing installation
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.
Maintenance		
Tools		Install SQL Server Reporting Services
Resources		Launch a download page that provides a link to install SQL Server Reporting Services. An internet connection is required to install SSRS.
Advanced	87	Install SQL Server Management Tools
Options	-3%	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,

- 7. The installation wizard will run a few checks on your system to ensure the prerequisites are met. If any issues are reported, resolve them before proceeding.
- 8. On the "**Product Key**" page, choose the appropriate option based on your license agreement with Microsoft. You can either enter the product key or select the "Evaluation" edition, which allows you to use SQL Server for a limited period.

Edition License Terms Global Rules Product Updates Install Setup Files Install Rules	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.
Azure Extension for SQL Server	Specify a free edition:
Feature Selection	Evolution (
Feature Rules	evaluation
Feature Configuration Rules	<u>U</u> se pay-as-you-go billing through Microsoft Azure:
Ready to Install	Warning: To enable this option, you must have an active Azure subscription that you will be
Installation Progress	required to provide along with a resource group, Azure region, and tenant ID later in setup. For more information, see https://aka.ms/ArcEnabledSoIPAVG
Complete	nore mornaton, see napsy atama, see nableada si at
	Standard $\checkmark$
	Enter the product key:
	I have a SQL Server license with Software Assurance or SQL Software Subscription
	I have a <u>SQL</u> Server license only



#### 9. Read and accept the license terms, then click "Next."



# 10. Azure Extension for SQL Server is an optional step and not necessary using Typical Manager and can be skipped.

Edition License Terms Global Rules Product Updates Install Setup Files Install Rules	Azure Extension for SQL Server     Use Azure Login	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.
Azure Extension for SQL Serv Feature Selection Feature Rules Feature Configuration Rules Ready to Install Installation Progress Complete	<ul> <li>Use Service Principal</li> <li>Azure Service Principal ID*</li> <li>Azure Service Principal Secret*</li> <li>Azure Subscription ID*</li> <li>Azure Resource Group*</li> <li>Azure Region*</li> <li>Azure Tenant ID*</li> <li>Proxy Server URL (optional)</li> </ul>	

11. On the "Feature Selection" page, select the features you want to install. For a typical installation, make sure "Database Engine Services" is checked. You can also select additional features like "SQL Server Replication" or "Full-Text and Semantic Extractions for Search" based on your requirements. Click "Next" to proceed.

Edition		0.0.1.1.1.1		
License Terms	Looking for Reporting Service	es? Download it from	m the web	
Global Rules	<u>F</u> eatures:		Feature description:	
Product Updates	Instance Features		The configuration and operation of each	
Install Setup Files	Database Engine Services		instance feature of a SQL Server instance is	
Install Rules	SQL Server Replication		isolated from other SQL Server instances, SQL Server instances can operate side-by-side on	
Azure Extension for SQL Server	Machine Learning Server     Full-Text and Semantic	rices and Language Ext	the same computer.	-
Feature Selection	Data Quality Services	Excludions for Scarci	Prerequisites for selected features:	
Feature Rules Instance Configuration Server Configuration Database Engine Configuration Feature Configuration Rules Ready to Install Installation Progress Complete	<ul> <li>PolyBase Query Service</li> <li>Analysis Services</li> <li>Shared Features</li> <li>Data Quality Client</li> <li>Integration Services</li> <li>Scale Out Master</li> <li>Scale Out Worker</li> <li>Master Data Services</li> <li>Redistributable Features</li> </ul>	e for External Data	Already installed: Windows PowerShell 3.0 or higher Microsoft Visual C++ 2017 Redistributable Disk Space Requirements Drive C: 994 MB required, 166552 MB available	
				Ŧ
	Select <u>A</u> II <u>U</u> nselect AII			
	Instance <u>r</u> oot directory:	C:\Program Files\Mid	crosoft SQL Server\	
	Shared feature directory:	C:\Program Files\Mid	crosoft SQL Server\	
	Shared feature directory ( <u>x</u> 86):	C:\Program Files (x86	5)\Microsoft SQL Server\	

- 12. On the "Instance Configuration" page, choose the instance type you prefer.
  - a. For a default installation, select "Default instance."
  - b. If you want a named instance, select "Named instance"
    - i. provide a unique name for example 'TYPICALMANAGER'.
  - c. Click "Next."

dition	O Default instance				
icense Terms	Named instance: *	TYPICALMANAG	ER		
ilobal Rules					
roduct Updates					
nstall Setup Files	Instance ID:	TYPICALMANAG	ER		
nstall Rules					
zure Extension for SQL Server					
eature Selection	SQL Server directory:	C:\Program Files	Microsoft SQL Serve	MSSQL16.TYPICALM	IANAGER
eature Rules	lectalled lectae cert				
nstance Configuration	instajied instances:				
erver Configuration	Instance Name	Instance ID	Features	Edition	Version
atabase Engine Configuration	<shared compone<="" td=""><td></td><td>LocalDB</td><td></td><td>15.0.4153.1</td></shared>		LocalDB		15.0.4153.1
eature Configuration Rules					
eady to Install					
nstallation Progress					
omplete					

13. Specify the service accounts and collation settings on the "Server Configuration" page. The service accounts define the Windows accounts under which the SQL Server services will run. You can use the default accounts or specify custom accounts based on your needs. Click "Next."

Edition	Service Accounts Collation			
License Terms Global Rules	Microsoft recommends that you	use a separate account for each	SQL Server serv	ice.
Product Updates	Service	Account Name	Password	Startup Type
Install Setup Files	SQL Server Agent	NT Service\SQLAgent\$S		Automatic
install Rules	SQL Server Database Engine	NT Service\MSSQLSSQL		Automatic
Azure Extension for SQL Server	SQL Server Browser	NT AUTHORITY\LOCALS		Automatic
Feature Selection				
Feature Rules	Grant Perform Volume Mainte	mance Tasks privilege to SQL Ser	iver Database E	ngine Service
Instance Configuration	This privilege enables instant	file initialization by avoiding zero	ning of data pag	ges. This may lead
Server Configuration	to information disclosure by a	llowing deleted content to be ac	cessed.	
Database Engine Configuration	Click here for details			

- 14. On the "Database Engine Configuration" page, choose authentication mode. "Windows Authentication mode" allows users to connect using Windows accounts, while "Mixed Mode" enables both Windows and SQL Server authentication. Set up the SQL Server administrators by adding appropriate accounts.
  - a. Choose "Mixed mode"
  - b. Enter an system administrator (SA) password
  - c. Click "Next."

Edition	Server Configuration	Data Directories	TempDB	MaxDOP	Memory	FILESTREAM
License Terms Global Rules	Specify the authent	ication mode and	administrat	tors for the	Database B	ingine.
Product Updates Install Setup Files Install Rules	Authentication Mode					
Azure Extension for SQL Server Feature Selection Feature Rules	Specify the passwor	rd for the SQL Serv	er system a	vindows au dministrate	or (sa) acco	n) unt.
Instance Configuration Server Configuration	<u>Enter password:</u> C <u>o</u> nfirm password:	•••••		••••••	•	
Database Engine Configuration Feature Configuration Rules	Specify SQL Server administrators					
Ready to Install Installation Progress				SQL S acces	erver admi s to the Dat	nistrators have unrestricted abase Engine.
Complete						
	Add <u>C</u> urrent User	<u>A</u> dd <u>R</u>	emove			

- 15. On the "**Ready to Install**" page, review your selections. You can also click on "**Installation**" to view the detailed installation process. Once ready, click "**Install**."
- 16. The installation process will begin, and you can monitor the progress on the "Installation Progress" page.



17. Once the installation completes successfully, the "**Complete**" page will appear. Review the summary and click "**Close**."

Edition	Information about the Setup operation or	possible next steps:	
License Terms			
Global Rules	Feature	Status	
Product Updates	Database Engine Services     Setup Support Files	Succeeded	
Install Setup Files	Setup Support Files	Succeeded	
Install Rules			
Azure Extension for SQL Server			
Feature Selection			
Feature Rules			
Instance Configuration			
Server Configuration			
Database Engine Configuration	Details:		
Feature Configuration Rules	Install successful		
Ready to Install			
Installation Progress			
Complete			



18. Verify the SQL Server installation by installing and opening SQL Server Management Studio (SSMS) or any other database management tool and connecting to the installed instance using the appropriate credentials.

Planning	New SQL Server standalone installation or add features to an existing installation
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.
Maintenance	
Test	Install SQL Server Reporting Services
10015	Launch a download page that provides a link to install SQL Server Reporting Services. An
Resources	internet connection is required to install SSRS.
Advanced	Rent Leatell SOI Secure Management Teals
	install SQL Server Management Tools
Options	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,

That's it! You have successfully installed SQL Server 2022. Remember to apply any necessary updates or service packs after the installation to ensure you have the latest features and security patches.

# 4 Use Typical Manager Control Center

With Typical Manager Control Center you can easily manage your Typical Manager databases and you don't need to use your default SQL database environment.

Every time a new version of Typical Manager is released, also a new version of Typical Manager Control Center is released.

The use of Typical Manager Control Center is explained in the Help of Typical Manager. <u>https://help.typicalmanager.com</u>





# 5 Using Windows and SQL users to login Typical Manager

In Typical Manager it is possible to log in by.

- 1. Windows authentication.
- 2. SQL Server authentication.

After installation of Typical Manager a default user is created like:

- Login : Admin
- Password : 1234

All Typical Manager users must be defined in SQL server management studio because the user needs access to the SQL database that Typical Manager is using.

A single user or a group from your active directory can be added to the SQL server.



#### 5.1 Create user with Windows Authentication

Mapped Credentials

Default database:

Default language:

ASQL2017

Ready

View connection properties

switch to Server roles.

Connectio YELLAX

Creating a user that is able to logging by Windows authentication can be done by right mouse button on Logins and click New login.

Select a page	🖵 Script 🔻 😮 Help		
<ul> <li>Server Roles</li> <li>User Mapping</li> <li>Securables</li> <li>Status</li> </ul>	Login name:		Search
	Password		
	Confirm password:		
	Specify old password		
	Old password:		
	Enforce password policy		
	C Enforce password expiration		
	☑ User must change password at next login		
	Mapped to certificate	Y.	
Connection	O Mapped to asymmetric key	Ŷ	
Server:	Map to Credential	~	Add

Credential

master

<default>

Provider

~

~

Cancel

OK

Γ

Fill in the login name (this must be the exactly windows name of the user)

Login - New		<u></u>		×
Select a page	🖵 Script 🔻 😮 Help			
Server Roles     User Mapping     Securables     Status	Server role is used to grant server-wide security privileges to a user. Server roles:			
	□ bulkadmin         □ dbcreator         □ diskadmin         □ processadmin         ✓ public         □ securityadmin         □ setupadmin         ✓ setupadmin			
Connection				
Server: SQL2017				
Connection: YELLAX				
₩ <u>View connection properties</u>				
Progress				
Ready				
		OK	Car	ncel

When the user may be able to connect to al databases and also login the SQL server management studio, select **Sysadmin**.

**NOTE** THE USERS WHICH DO NOT HAVE THE SERVER ROLE SYSADMIN ARE NOT ABLE TO BACKUP/RESTORE DATABASES AND CREATE NEW USERS.

When user can only access selected database(s) Switch to User Mapping.

Here you can select the databases the user may have access to. And give them the Default Schema: **dbo** Also select de Database role membership: **db\_typicalmanager** 

	CT Control	- 0 Usta		
🔑 General	i Script	• 🕑 neip		
<ul> <li>Server Roles</li> <li>User Mapping</li> </ul>	Users ma	apped to this login:		
Securables	Map	Database	User	Default Schema
Status		Dinnissen		
		Dinnissen_3.4.0.10		
		master		
		model		
		msdb		
		No project db		
		tempdb		
		TM2018	test	dbo
		TM-standard 2018.1		and a second
		TM-standard v1.03		
	2000			
Connection				
Server: \SQL2017	Databas	t account enabled for: TM2 e role membership for: TM2(	018	
Contraction	dh a	iccessadmin		
Connection:		loococcamin		
YELLAX	db_b	ackupoperator		
YELLAX	db_t	ackupoperator latareader		
VELLAX	db_t db_0 db_0	ackupoperator latareader latawriter		
VELLAX	db_t o_db_ o_db_ db_ db_	iackupoperator latareader latawriter Idladmin leuwdatareader		
YELLAX	1_db db db db db db	lackupoperator Iatareader Idladmin Ienydatareader Ienydatawitter		
VELLAX VIEW connection properties Progress	1_db _  >_db _  o_db _  o_db _  o_db _  o_db _	laackupoperator latareader latawriter Idladmin lenydatareader lenydatawriter wner		
YELLAX YELLAX Yelle Yel	1_db_ db_ db_ db_ db_ db_ db_ db_ db_ db_	lackupoperator latareader latawriter Idladmin lenydatareader lenydatawriter wner ecurityadmin		
YELLAX         Y         View connection properties	db_t db_c db_c db_c db_c db_c db_c db_c db_c	lackupoperator latareader latawriter Idladmin lenydatareader lenydatawriter wmer ecurityadmin ypicalmanager		
YELLAX         Yiew connection properties         Yrogress         Ready	db_t db_c db_c db_c db_c db_c db_c db_c db_c	lackupoperator latareader latawriter Idladmin lenydatareader lenydatawriter wmer ecurityadmin ypicalmanager c		
YELLAX YELLAX Yew connection properties  Progress Ready Ready	db_t _db_c _db_d _db_d _db_d _db_d _db_d _db_d Vdb_t Vdb_t	lackupoperator latareader latawriter Idladmin lenydatareader lenydatawriter wmer ecurityadmin ypicalmanager c		

Now a user is created and has permission to one or more databases.

Now also a Typical Manager user must be created in Typical Manager.

How this can be done is explained in the Help of Typical Manager: <u>https://help.typicalmanager.com</u>

#### 5.2 Create user with SQL Authentication

An SQL user is made in the same way as a Windows user:

- Fill in the Login name,
- Check the SQL Server authentication button,
- Fil in a password that will be used when login in Typical Manager,
- If no password policy is required deselect the Enforce password policy checkbox,

Select a page				
🖗 General	🔟 Script 👻 😗 Heip			
Server Roles User Mapping Securables Status	Login name: Vindows authentication SQL Server authentication Password: Confirm password: Specify old password Old password: Enforce password policy Enforce password policy User must change pase	Example		Search
onnection	Mapped to semmetric key			
Server:	Mapped to dayminicate Key			
SQL2017 Connection: YELLAX	Mapped Credentials	Credential Provider		
rogress				Remove
Ready	Default database:	master	×	

And Switch to Server Roles.

Login - New		-		×
Selectapage 🖋 General	🖵 Script 🔻 😮 Help			
Server Roles     User Mapping     Securables     Status	Server role is used to grant server-wide security privileges to a user.			
	bulkadmin dibcreator diskadmin processadmin ✓ public securityadmin setupadmin stupadmin ✓ sysadmin			
onnection				
Server: \SQL2017				
Connection: YELLAX				
View connection properties				
Progress				
C Ready				
		ОК	Car	ncel

X

When the user may be able to connect to al databases and also login the SQL server management studio, select Sysadmin.

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When user only may have access to selected database(s) Switch to User Mapping.

Here you can select the databases the user may have access to. And give them the Default Schema: **dbo**.

Also select de Database role membership: **db\_typicalmanager**.

Select a page	CT Series				
👂 General	T Scibr + G Help				
Server Roles					
User Mapping	Users m	apped to this login:			
Securables	Map	Database	User	Default Schema	
Status		Dinnissen			
		Dinnissen_3.4.0.10			
		master			
		model			
		msdb			
		No project db			
		tempdb			
		TM2018	test	dbo	2.2
		TM-standard 2018.1			
		TM-standard v1 03			
onnection	Gues	t account enabled for: TM2	018		
Server:					
\SQL2017	Databas	e role membership for: TM2	018		
Connection:	db_a	accessadmin			
YELLAXY	db_b	ackupoperator			
View connection properties	_ db_0	latareader			
	db_datawriter				
	db_denvdatareader				
	_ db_0	lenydatawriter			
rogress	_ db_0	owner			
Ready	db_s	ecurityadmin			
Vast		c			
	C pabe	-			_
				OK C	ancel

Now a user is created and has permission to one or more databases.

Now also a Typical Manager user must be created in Typical Manager.

How this can be done is explained in the Help of Typical Manager: <u>https://help.typicalmanager.com</u>

# 6 Trouble shooting

#### 6.1 SQL server

Allow remote connections to the SQL server

The first thing to check is if Remote Connections are enabled on your SQL Server database. In SQL Server you do this by opening SQL Server Management Studio, connect to the server in question, right click the server...



... and open the Server Properties.

🔒 Server Properties - localhosť	\sqlexpress
Select a page	Script 👻 🎼 Help
Memory Processors Security Connections Database Settings Advanced Permissions	Connections Maximum number of concurrent connections (0 = unlimited):
Connection	Remote server connections
Server: localhost\sqlexpress Connection: YELLAX\h feenstra Wew connection properties	<ul> <li>Allow remote connections to this server</li> <li>Remote query timeout (in seconds, 0 = no timeout):</li> <li>600 </li> <li>Require distributed transactions for server-to-server communication</li> </ul>
Progress	
C Ready	Configured values     O Running values
	OK Cancel

Navigate to Connections and ensure that Allow remote connections to this server is checked. Check if this solves the problem. If it does, here you go, continue with whatever you were doing and have a nice day.

#### Protocols for MSSQLServer

If you're still running in issues let's dig a bit deeper. The next good thing to check is the SQL Server Network Configuration. Open the SQL Server Configuration Manager, unfold the node SQL Server Network Configuration and select Protocols for MSSQLServer (or whatever the name of your SQL Server instance is).

Sql Server Configuration Manager			- 0	23
File Action View Help				
SQL Server Configuration Manager (Local)	Protocol Name	Status Enabled		
<ul> <li>SQL Server Network Configuration (32bit)</li> <li>SOL Native Client 10.0 Configuration (32bit)</li> </ul>	Named Pipes	Enabled		
<ul> <li>SQL Server Network Configuration</li> <li>Protocols for SQLEXPRESS</li> <li>SQL Native Client 10.0 Configuration</li> </ul>	3 VIA	Enabled Disabled		

Make sure that TCP/IP is enabled and try again. Even though I hope that this resolved your problems there might still be an issue with...

#### The Firewall

If there is still no communication happening between your computer and the remote SQL Server you most likely need to configure your firewall settings.

The following Ports must be added to your inbound rules:

SQL Server default instance running over TCP	TCP port 1433	This is the most common port allowed through the firewall. It applies to routine connections to the default installation of the Database Engine, or a named instance that is the only instance running on the computer.
SQL Server Browser service	UDP port 1434	The SQL Server Browser service listens for incoming connections to a named instance and provides the client the TCP port number that corresponds to that named instance. Normally the SQL Server Browser service is started whenever named instances of the Database Engine are used. The SQL Server Browser service does not have to be started if the client is configured to connect to the specific port of the named instance.

Also the program itself:

On the Exceptions tab of the Windows Firewall item in Control Panel, click Add a program.

Browse to the location of the instance of SQL Server that you want to allow through the firewall, for example C:\Program Files\Microsoft SQL Server\MSSQL14.<instance\_name>\MSSQL\Binn,

select sqlservr.exe, and then click Open.

Click OK.

More details: <u>http://msdn.microsoft.com/en-us/library/cc646023.aspx</u>