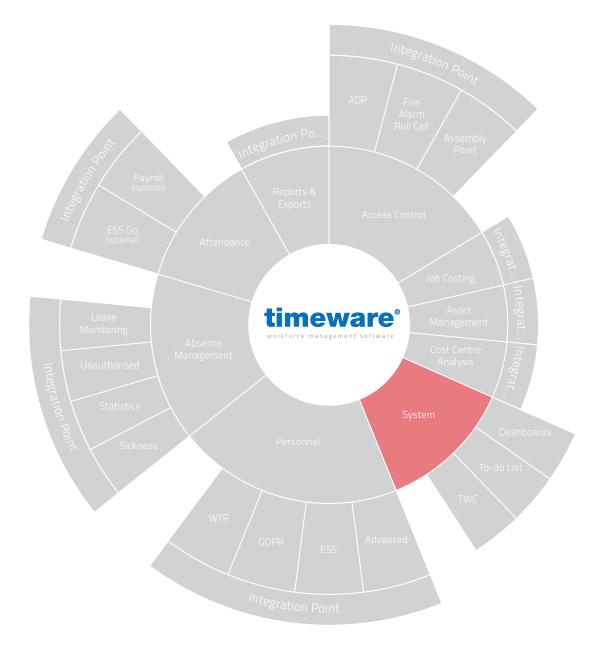


#### 0

# Installing Microsoft SQL and SQL Server Management Studio



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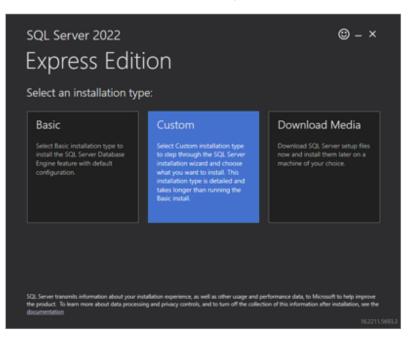


### **Installing SQL Server**

The minimum support version of SQL is 2016, however we always recommend using the latest available version. This guide is based off SQL Express 2022, some of the instructions below may slightly vary depending on the version you are installing.

Download the SQL Express 2022 installer from https://www.microsoft.com/en-us/download/details.aspx?id=104781

Run the installer, then select custom when you reach the "Select an installation type" screen.



Choose where you want to save the required files, then click on install. Let this finish downloading the required setup files.

Once this has finished downloaded you should progress on to a new screen, select the option for "New SQL Server standalone installation..."



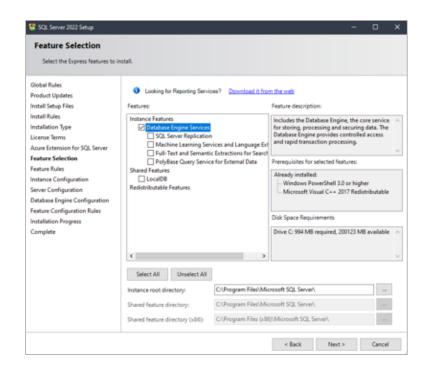


Proceed through the installer, check for any updates if prompted, then you should get to a screen asking for "Installation Type". Select "Perform a new installation".

\$01. Server 2022 Setup Installation Type Perform a new installation or a	dd features to an existin	ig instance of SQL Serve	r 2022.		- 0	×
Global Rules Product Updates Install Setup Files Install Rules Install Rules Installation Type License Terms Azure Extension for SQL Server Feature Rules Instance Configuration	Select this option components. O Add features to ar DEVELOPER_2019 Select this option want to add the A	tallation of SQL Server 2 if you want to install a r existing instance of SQ if you want to add feat malysis Services feature must be the same edition	New instance of S Server 2022	g instance of SQL Sen	ver. For example,	
Server Configuration Database Engine Configuration Analysis Services Coofiguration Integration Services Scale Out Integration Services Scale Out Feature Configuration Rules Installation Progress Complete	Instance Name DEVELOPER_2019	Instance ID MSSQL16.DEVELOP	Features SQLEngine	Edition Developer	Version 16.0.1050	.5
				< Back Ne	kt > Ca	ncel

Carry on through the installer, accept the license terms, and then you should come to a page mentioning "Azure". Untick the "Azure Extension for SL Server" checkbox and click on next.

On the next page the only real feature we require is "Database Engine Services". You can untick everything else unless you require any of the additional features for anything. If you want to change the directory we install to, you can do so at the bottom.



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On the next page, select "named instance" and give the instance a meaningful name, we will use "TIMEWARE".

Global Rules Product Updates	Default instance     Named instance: *	TIMEWARE			
Install Setup Files Install Rules Installation Type License Terms Azure Extension for SQL Server Feature Selection Feature Rules Instance Configuration	Instance ID:	TIMEWARE			
	SQL Server directory: Installed instances:	C:\Program Files\Mic	rosoft SQL Server	MSSQL16.TIMEWARE	
Server Configuration	Instance Name DEVELOPER_2019	Instance ID MSSQL16.DEVELOP	Features	Edition Developer	Version 16.0.1050.5
Database Engine Configuration Feature Configuration Rules Installation Progress Complete					

Make sure the "Startup Type" dropdowns are both set to automatic.

🚏 SQL Server 2022 Setup				-		×
Server Configuration						
Specify the service accounts an	nd collation configuration.					
Global Rules Product Updates Install Setup Files	Service Accounts Collation Microsoft recommends that you	use a separate account for each :	SQL Server servi	ce.		
Install Rules	Service	Account Name	Password	Startup	Туре	
Installation Type	SQL Server Database Engine	NT Service\MSSQL\$TIME		Automa	tic	~
License Terms	SQL Server Browser	NT AUTHORITY\LOCALS		Automa	tic	~
Azure Extension for SQL Server						



On the "Database Engine Configuration" tab, choose to use "Mixed Mode" authentication. Enter a password which is used for the "sa" account, we default to "39steps". Click on "Add Current User" at the bottom, this will give the current windows user you are logged in as access to the instance. You can add any additional users by clicking "Add". If you require changing the install locations of the database and log file etc, you can do this in the "Data Directories" tab. Once done click next and let the installer finish.

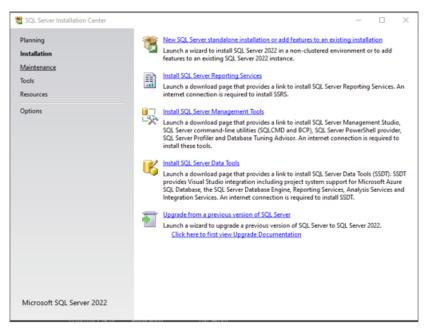
SQL Server 2022 Setup Feature Selection Select the Express features to i	nstall.			-		×
Global Rules Product Updates Install Setup Files Install Rules Installation Type Azure Extension for SQL Server Feature Selection Feature Rules Server Configuration Database Engine Configuration Feature Configuration Rules Installation Progress Complete	Looking for Reporting Servic Features:     Substance Features     SQL Server Replication     GAL Server Replication     PolyBase Query Servic Shared Features     CalDB Redistributable Features	vices and Language Ext c Extractions for Search	Feature description The configuration instance feature isolated from oth	n and operation o of a SQL Server in ter SQL Server inst can operate side-i ter. velected features:	stance is tances. SQL	
	٢	>				~
	Select All Unselect All Instance root directory: Shared feature directory: Shared feature directory (x86):	C:\Program Files\Mic C:\Program Files\Mic C:\Program Files (x86	rosoft SQL Server\			
			< Back	Next >	Cance	ł

Once done click "close". You should now be back at the "SQL Server Installation Screen".



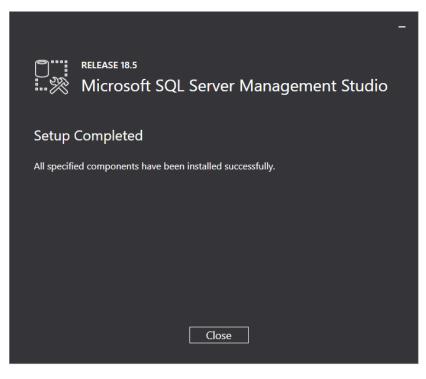
## **Installing SQL Server Management Studio**

Next is to install SQL Server Management Studio, click on the 'Install SQL Server Management Tools" link, and then download the installer. Once downloaded, run the installer.



Once the installer has opened you will need to select the option "Install" which will download and configure SSMS onto your system. (Note: timeware<sup>®</sup> do not change the file location unless the customer has requested this to be installed elsewhere)

After the installer has completed installing and configuring SSMS you will be told "Setup Complete" where you will then be able to just select "Close" to finish the install.



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## **Configuring SQL Instance & Database**

Firstly, you will need to open SSMS where you will be greeted with a "Connect to Server" login page. In the "Server Name" you will need to enter your computers name and then forward slash, followed by the instance name "TIMEWARE"

Then you will need to select "SQL Server Authentication" on the "Authentication" dropdown. Before then entering in the "Login" section "SA" and in the "Password" section enter your password you entered during the setup process of SQL.

🖵 Connect to Serve	r	$\times$
	SQL Server	
Server type:	Database Engine	$\sim$
Server name:	SUPPORT-03\TIMEWARE	$\sim$
Authentication:	SQL Server Authentication	$\sim$
Login:	sa	$\sim$
Password:	*****	
	Remember password	
	Connect Cancel Help Options >>	
	Connect Canoor Hop Options //	

Next, you will then need to go to the downloads section of timeware.info and download the desired database for timeware. There are two options available the "Demo" database is used for demonstrating the software and has some employee's setup to show parts of the software. While the "New System" database is a starting database which is used for configuring a new customer with no example employees.

Database Builds			
		Database	
Software Version	Important Notes	Release Note	s Download Software
Demo	n/a	Guide	Download Released: 15/05/2020 Version: 20.1.5
New system	n/a	Guide	Download Released: 06/01/2020 Version: 20.0.6



workforce management software

Once you have downloaded the correct database from timeware.info, you will then need to go back into your SSMS. Once logged into SSMS you will need to right click on the folder "Databases" and then select "Restore Database" where you will be taken to the Restore Database screen.

🔀 Restore Database -	- D X
🐼 No backupset selected to be restore	d.
Select a page Je General Je Files Je Options	Script  Help  Source  Database:  Database:  Database:  Destination  Database:  Restore to:  Restore to:
Connection y∰ SUPPORT-03\TIMEWARE [sa]	
View connection properties Progress	
Ready	< >> Verfy Backup Media
	OK Cancel Help

Once you are at this screen you will need to select "Device" before then clicking onto the button with three dots (...) on the righthand side. Then you will need to click the "Add" button.

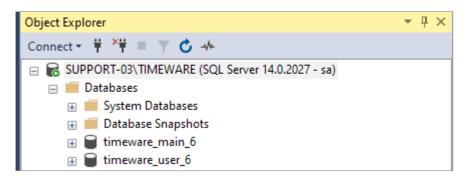
Select backup devices			
Specify the backup media and its	location for your restore	operation.	
<b>5</b> 1 5 1	-		
Backup media type:	File	~	
Backup media:			
			Add
			Remove
			Contents
	ОК	Cancel	Help



Next, you will need to locate where you have saved the database on your computer. Once you have located the 2 database files, you will then need to select "timeware\_main\_6" first before continuing by pressing "OK" then you will need to select "OK" again to start the restore. You will then receive a message to say the database has restored successfully.

Locate Backup File - SUPPO	RT-03\TIMEWARE		— 🗆 X
Backup File location:	C:\Downloads	Ċ	P
C:     SeeCurrent     SeeCurrent     SeeCycle.Bin     Swindows.~WS     Apps     d4be266052caac4c64     Databases     dell     Documents and Setting     One Dotivers     Divers     SED     One Drivers     Intel     IntelOptaneData     One Drive Temp     One Drive Temp     One Drive Temp     PerfLogs     Setting     Program Files     Setting     Degram Files     Setting     Degram Files     Setting     Setti		-	
File name: timewa	re_main_6_new_2012.bak	Backup Files(*.bak;*.t	m;*.log) ~
		ОК	Cancel
Microsoft SQL Server Manageme	ent Studio ×		

After the restore has completed you will are then required to repeat the restore process for "timeware\_user\_6" Once this is complete you should see both "timeware\_main\_6" and "timeware\_user\_6" in the "Databases" folder.



ОК



## Creating a user within SSMS

Within SSMS you will need to expand the folder named "Security" before right clicking on the "Logins" folder and selecting "New Login" A login screen will appear and you will need to enter "timeware" into the "Login Name" Next you will then need to select "SQL Server authentication" before entering a password of your choice (Note: This is the installers responsibility to keep the password) After filling out the password field, you will then need to select "Enforce password policy" and then unselect the other two options: "Enforce password expiration" and "User must change password at next login"

Login - New			_	
Select a page	🖵 Script 🔻 🕜 Help			
<ul> <li>Server Roles</li> <li>User Mapping</li> <li>Securables</li> <li>Status</li> </ul>	Login name: Vindows authentication SQL Server authentication Password: Confirm password: Specify old password	timeware		Search
	Old password:	tion		
Connection Server: SUPPORT-03\TIMEWARE Connection: sa vi View connection properties	Mapped Credentials	Credential	Provider	Add
Progress Ready	Default database: Default language:	master <default></default>		
			ОК	Cancel

Then you will need select "Server Roles" on the left-hand side of the login window and selecting the following option "public" leaving all other options unchecked. Once you have selected both options you can then select "OK" (Note: timeware® do not use the "SA" login on SQL which is why we create our own "timeware" login)

🗄 Login - New		_	$\times$
Login - New Select a page & General & Server Roles & User Mapping & Securables & Status	Script  Help Server role is used to grant server-wide security privileges to a user. Server roles: bulkadmin docreator diskadmin processadmin public securtlyadmin serveradmin serveradmin sysadmin		×