

Installing Microsoft SQL and SQL Server Management



Studio



Installing SQL Server

The minimum support version of SQL is 2014, 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 <u>https://www.microsoft.com/en-us/download/details.aspx?id=104781</u>

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..."





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

install to, you the bottom.

SQL Server 2022 Setup				17	0	2	
Feature Selection Select the Express features to	ratal.						
Global Rules Product Updates Install Setup Files Install Rules	Looking for Reporting Servi Features Instance Features	oes? <u>Download it fro</u> r	m the web Feature description: Includes the Database Eng	pine, the co	re service		
Installation Type Consect Englise Englise Consect Engl		for SQS Server	for storing, processing an Database Engine provides and repid transaction pro-	d securing i controlled cessing.	data. The access		
Feature Rules Instance Configuration Server Configuration Database Engine Configuration	PolyBare Query Service for External Data Shared Features Could B Redistributable Features		Prerequisites for selected features Alterady installed Windows PowerShell 3.0 or higher Microsoft Visual C++ 2017 Redistributable				
Feature Configuration Rules Installation Process			Disk Space Requirements				
Complete		,	Drive C: 994 MB required,	200123 MB	available		
	Calace All December 2.0	1				-	
	Instance root directory	C//Program Files/Mic	rosoft SQL Server\			í.	
	Shared feature directory: C/Program Filed/Ma		routh SQL Server's			i.	
	Shared feature directory (x88):	C//Program Files (x86	Microsoft SQL Serveri		Ser.	Í.	
	-		< Back Nex	t>	Cancel		



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

🐮 SQL Server 2022 Setup					-	-		×
Instance Configuration Specify the name and instance	ID for the instance of SC	QL Server. Instance ID I	becomes part (of the installatio	n path.			
Global Rules Product Updates Install Setup Files Install Rules Installation Type License Termis Azare Extension for SQL Server Feature Selection Feature Rules	Default instance Named instance:*	TIMEWARE						
	Instance ID:	TIMEWARE						
	SQL Server directory: Installed instances	C\Program Files\Mic	crosoft SQL Se	rver\MSSQL16.T	IMEWARE			
Server Configuration	Instance Name	Instance ID	Features	Editio	n	Versio	n	
Server Cenfiguration Database Engine Configuration Feature Configuration Rules Installation Progress Complete	DEVELOPER_2019	MSSQL16.DEVELOP	SQLEngine	Develo	per	16.0.10	50.5	
				< Back	Next >		Cancel	

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

💱 SQL Server 2022 Setup				- (3	
Server Configuration						
Specify the service accounts a	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	ice.		
Install Rules	Service	Account Name	Password	Startup T	ype.	
installation Type	SQL Server Database Engine	NT Service\/MSSQL\$TIME		Automati	c	v
License Terms Azure Extension for SQL Server	SQL Server Browser	NT AUTHORITY/LOCALS		Automati	c .	~

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	>
Database Engine Confi	iguration
Specify Database Engine authe parallelism, Memory limits, and	ntication security mode, administrators, data directories, TempDB, Max degree of Filestream settings.
License Terms Global Pulos	Server Configuration Data Directories TempDB Memory User Instances FILESTREAM
Product Updates	Specify the authentication mode and administrators for the Database Engine.
Install Setup Files Install Rules	Authentication Mode
Azure Extension for SQL Server	O Windows authentication mode
Feature Selection Feature Rules	Mixed Mode (SQL Server authentication and Windows authentication) Specify the partword for the SQL Server system administrator (ca) account
Instance Configuration	Enter password:
Database Engine Configuration	Confirm password:
Feature Configuration Rules	Specify SQL Server administrators
Complete	SQL Server administrators have unrestricted
	access to the Database Englie.
	Add Current User Add Remove
	< Back Next > Cancel

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® 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.





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.

	SQL Server	
Server type:	Database Engine	~
Server name:	SUPPORT-03\TIMEWARE	~
Authentication:	SQL Server Authentication	~
Login:	sa	~
Password:		
	Remember password	

Next, you will then need to go to the downloads section of <u>https://www.nmd3.com/software-repository.php</u> 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.

Software Version	Important Notes	Release Notes	Download Software
Default Build	n/a	View Release Notes	Download Released: 13/03/2024 Version: 24.1.1
Demo Build	n/a	View Release Notes	Download Released: 13/03/2024 Version: 24.1.1



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.

-		
No backupset selected to be restored	й	
■ No Backupet Bedded to be retrored Select a page	Script - Help Source Database: Detivation Database: Detivation Database: Restore for: Restore	meline
Connection v¥ SUPPORT-03\TIMEWARE (sa)		
Vew connection properties		

Once you are

need to click button.

at this screen you

will need to select "Device" before then clicking onto the button with three dots (...) on the right-hand side. _____ Then you will

Backup media type:	File	~		
Backup media:				_
			Add	
			Contents	



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 - SUPPORT-03\TI	MEWARE	— 🗆 X
Backup File location: C:\Down	loads 🖒	ρ
C: SGetCurrent SRecycle.Bin SWindows.~WS Apps d4be266052caac4c64152f536b d4be266052caac4c64152f536b dell dell	 ↓ Updater_SA_Upgrade ↓ timeware_main_6_new_2012.bak ↓ timeware_user_6_new_2012.bak 	
File name: timeware_main_	6_new_2012.bak Backup Files	(*.bak;*.tm;*Jog) ~
	ок	Cancel

Microsof	t SQL Server Management Studio	>	<
1	Database 'timeware_main_6' restored	successfully.	
		ОК	



After the restore has completed you will be 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.



Installing SQL Server Management Studio

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 login"

Select a page						
& General	L) Script + 😯 Help					
Sever Roles & Sever Roles & User Mapping & Securables & Status	Login name: Vendows authentication SQL Server authentication Password: Confirm password: Specify old password Old password: Enforce password expira User must change passs Mapped to certificate	bmeware			Search.	
	 Mapped to asymmetric key 			\sim		
	Map to Credential					_
Connection				~	/100	
Server: SUPPORT-03\TIMEWARE Connection: sa VI View connection properties	Mapped Credentials	Credential	Provider			
					Remove	
Progress						
Progress Ready	Default database:	master		~		

and "User must password at next



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
Select a page	∏ Script ▼		
Jerver Noles Je User Mapping Je Securables Je Status	Server role is used to grant server-wide security privileges to a user. Server roles: bulkadmin dbcreator diskadmin processadmin processadmin serveradmin serveradmin setupadmin setupadmin sysadmin		