

#### Hardware, Software & System Requirements for SQL Server 2008 R2 Express Edition

To get the overview of SQL Server 2008 R2 Express Edition, click here.

Please refer links given below for all the details related to Hardware, Software & System Requirements for SQL Server 2008 R2 Express Edition.

- 1. Hardware & Software Requirements
- 2. System Requirements

Please make sure you comply with these requirements before proceeding.

#### Steps for Downloading SQL Server 2008 R2 SP2 Express Edition:

Depending upon the type of your computer, you can download 32-bit or 64-bit SQL Server 2008 R2 SP2 Express Edition:

- Select the language for download.
- Choose the required product from the list specified and click on the Download button next to it. (recommended: SQL Server 2008 R2 Express with Tools) Note: Depending on your security settings, you may encounter these steps:

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#### Steps for Installing SQL Server 2008 R2 Express Edition:

Note: .Net Framework 3.5 SP1 is a pre-requisite for Microsoft SQL Server 2008 R2 Express Edition if the user prefers to install Management Studio as well.

There are a number of prerequisites for installing SQL Server 2008 R2 Express Edition. Here is the list and the basic instructions:

- 1. Login with administrative privileges on the computer where SQL Server 2008 R2 Express Edition is to be installed.
- Ensure a minimum of 1 GB free space on the drive on which you wish to install the SQL Server 2008 R2 Express Edition.
- 3. Download and install .NET Framework 3.5 SP1 from here.
- 4. Download and install Windows Installer 4.5 from here.
- 5. Download and install Windows PowerShell 1.0 from here.
- 6. Uninstall SQL Server Management Studio 2005 if previously installed. Else, the setup of SQL Server 2008 R2 Express Edition will give an error during installation.
- 7. Reboot the computer.
- 8. Download SQL Server 2008 R2 SP2 Express Edition installer, if not already done, from here.
- 9. Run SQL Server 2008 R2 SP2 Express Edition installer.
- 10. If SQL Server 2008 R2 SP2 Express Edition prerequisites are not found then the installation wizard indicates the missing prerequisites. Once the prerequisites are installed, re-start the computer, rerun the SQL Server 2008 SP2 R2 Express Edition installer to continue with the installation.
- 11. SQL Server Installation opens up.



#### **SQL Server Installation**

- 1. Planning.
  - Run 'System Configuration Checker' to look for any potential issues that can prevent the successful installation of SQL Server 2008 R2 Express Edition.

1	SQL Server 2008 R2 Setup	- 🗆 ×
Setup Support Rules Setup Support Rules identify prof corrected before Setup can contir	lems that might occur when you install SQL Server Setup support files. F Je.	ailures must be
Setup Support Rules	Operation completed. Passed: 15. Failed 1. Warning 0. Skipped 0. Hide details_<< <u>View detailed report</u>	<u>R</u> e-run
	Ru Rule	Status ^
	Long path names to files on SQL Server installation media	Passed
	SQL Server Setup Product Incompatibility	Passed
	Unsupported SQL Server products	Passed
	Performance counter registry hive consistency	Passed
	Previous releases of SQL Server 2008 Business Intelligence Devel	Passed
	Previous CTP installation	Passed
	Computer domain controller	Passed
	Microsoft .NET Application Security	Passed
	Edition WOW64 platform	Passed
	Windows PowerShell	Passed
		*
		OK Cancel

• If any issues are found, they must be fixed before continuing with the wizard. You can also select the 'Online Installation Help' for help regarding Installation.

The dialog mentioned below remains open, and can be revisited at any time during the installation procedure.

<b>1</b>		SQL Server Installation Center – 🗆 🗙
<b>Planning</b> Installation		Hardware and Software Requirements ^
Maintenance Tools	•	Security Documentation View the security documentation.
Resources Advanced	•	Online Release Notes View the latest information about the release.
Options	•	Setup Documentation Read the Overview of SQL Server Setup Documentation topic for information about SQL Server Books Online. The Setup documentation includes an overview of SQL Server installation, the help topics that are needed during installation, and links to more detailed information about planning, installing, and configuring SQL Server.
	ŶĨ	System Configuration Checker Launch a tool to check for conditions that prevent a successful SQL Server installation.
		Install Upgrade Advisor Upgrade Advisor analyzes any SQL Server 2005 or SQL Server 2000 components that are installed and identifies issues to fix either before or after you upgrade to SQL Server 2008 R2.
	•	Online Installation Help Launch the online installation documentation.
		How to Get Started with SQL Server 2008 R2 Failover Clustering Read instructions on how to get started with SQL Server 2008 R2 failover clustering.
SQL Server 2008 R2	•	How to Get Started with a PowerPivot for SharePoint Standalone Server Installation Read instructions on how to install PowerPivot for SharePoint in the fewest possible



2. Go to Installation.

Two ways to install SQL Server 2008 R2 Express Edition is mentioned below:

- a. Install a new instance of SQL Server 2008 R2 Express Edition (**Recommended**). Select 'New installation or add features to an existing installation' link.
- b. Upgrade existing SQL Server 2000 Express Edition (Microsoft Desktop Engine), SQL Server 2005 Express Edition or SQL Server 2008 SP1 Express Edition to SQL Server 2008 R2 Express Edition.

#### Notes:

• If you wish to continue running, your existing Windowmaker product with SQL Express 2005, then you must install a new instance of SQL Server 2008 R2 Express.

1	SQL Server Installation Center – 🗆 🗙
Planning Installation	New installation or add features to an existing installation. Launch a wizard to install SQL Server 2008 R2 in a non-clustered environment or to add features to an existing SQL Server 2008 R2 instance.
Maintenance Tools Resources	Upgrade from SQL Server 2000, SQL Server 2005 or SQL Server 2008 Launch a wizard to upgrade SQL Server 2000, SQL Server 2005 or SQL Server 2008 to SQL Server 2008 R2.
Advanced Options	Search for product updates Search Microsoft Update for SQL Server 2008 R2 product updates.
SQL Server 2008 R2	



3. License Terms

Read and accept the terms. Click 'Next'.



4. Setup Support Files. Click 'Install'.

	SQL Serv	er 2008 R2 Setup		
Setup Support Files	5			
Click Install to install Setu	p Support files. To install or update SQ	L Server 2008 R2, these files	are required.	
				 <u> </u>
etup Support Files	The following components	are required for SQL Server	Setup:	
	Feature Name	Status		
	Setup Support Files			
	ExecuteCalculateScenarioW	/orkflow		
				<b>C</b> 1



5. Setup Support Rules. If any issues are found (indicated by a 'Failed' status), they should be fixed before continuing with the wizard else click 'Next'.

1	SQL Server 2008 R2 Setup	_ 🗆 🗙
Setup Support Rules	y problems that might occur when you install SQL Server Setup support files. I	Failures must be
Setup Support Rules	Operation completed. Passed: 15. Failed 1. Warning 0. Skipped 0.	
	Hide details << View detailed report	<u>R</u> e-run
	Ru Rule	Status ^
	SQL Server Setup Product Incompatibility	Passed
	Unsupported SQL Server products	Passed
	Performance counter registry hive consistency	Passed
	Previous releases of SQL Server 2008 Business Intelligence Devel	. <u>Passed</u>
	Previous CTP installation	Passed
	Computer domain controller	Passed
	Microsoft .NET Application Security	Passed
	Edition WOW64 platform	Passed
	Windows PowerShell	Passed
		¥
		OK Cancel

#### 6. Feature Selection

On selection of 'Management Tools – Basic' will install SQL Server Management Studio. Press 'Select All' button to select all the features. Click 'Next'.

1	SQL Server 2008 R2 Setup	_ 🗆 🗙
Feature Selection Select the Express with Advanced S	ervices features to install.	
Setup Support Rules Installation Type License Terms Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Eeatures:	Description: Server features are instance-aware and have their own registry hives. They support multiple instances on a computer.
	Select All         Unselect All           Shared feature directory:         c:\Program Files\Mic	rosoft SQL Server\
	< <u>B</u> ack	Next > Cancel Help



- 7. Instance Configuration.
  - Press 'Default instance' to install an instance with default name.
  - Press 'Named instance' radio button to specify another name (All-previously installed instances of any SQL version are listed below).

The Instance name is displayed automatically as the Instance ID. Accept the default folder for installing the instance as displayed in the 'Instance root directory' or type in a different path or browse for the required folder.

It is recommended to continue with the default values. Click 'Next'.

1	SQL	Server 2008 R2 Server	etup		- 🗆 🗙
Instance Configuration Specify the name and instance ID	for the instance of SQL	Server. Instance ID be	comes part of the ins	tallation path.	
Setup Support Rules Installation Type License Terms Feature Selection	Default instance Named instance:	MSSQLSERVER			
Feature Selection Installation Rules Instance Configuration Disk Space Requirements	Instance <u>I</u> D: Instance <u>r</u> oot director	MSSQLSERVER ry: C:\Program Files	\Microsoft SQL Server	٨	
Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules	SQL Server directory: Insta <u>l</u> led instances:	C:\Program Files\	Microsoft SQL Server	MSSQL10_50.MSSQL	SERVER
Installation Progress	Instance Name	Instance ID	Features	Edition	Version
Complete	SQLEXPRESS	MSSQL10_50.SQLE	SQLEngine, SQLEn	Express with Adva	10.50.1600.1
			< <u>B</u> ack <u>N</u> ext	:> Cancel	Help

8. Disk Space Requirements

The dialog displays the details of available and required disk space. In case of inadequate space, there is a Red Cross mark instead of the green tick (see below).

Create the required space on the drive or choose a different drive to resolve the issue and click 'Next'.



<b>t</b>	SQL Server 2008 R2 Setup – 🗆 🗙
Disk Space Requirement	ts or the SQL Server features you selected.
Setup Support Rules Installation Type License Terms Feature Selection Installation Rules Instance Configuration <b>Disk Space Requirements</b> Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Disk Usage Summary:
	< <u>B</u> ack <u>N</u> ext > Cancel Help

9. Server Configuration.

On 'Server Configuration' dialog, Service Accounts tab displays the service account details under which SQL Server services should run and the startup type for each. The recommended choices are shown below. Click 'Next'.

**Note:** The details on the Collation tab are automatically configured. It is recommended that these be left unchanged.

1	SQL Server 2008	3 R2 Setup			X
Server Configuration Specify the service accounts and co	Illation configuration.				
Setup Support Rules Installation Type License Terms	Service Accounts Collation Microsoft recommends that you	use a separate account for ea	ch SQL Server s	ervice.	
Feature Selection	Service	Account Name	Password	Startup Typ	e
Installation Rules	SQL Server Database Engine	NT AUTHORITY\NETW		Automatic	~
Instance Configuration	SQL Server Browser	NT AUTHORITY\LOCA		Disabled	~
Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete		Use the same	account for all	SQL Server servi	:es
		< <u>B</u> ack <u>N</u> ext >	Can	cel He	elp i

10. Database Engine Configuration.

On 'Database Engine Configuration' dialog, 'Account Provisioning' tab displays authentication mode and specifies the SQL Server administrators.



## It is highly recommended that you select 'Mixed' rather than 'Windows' Authentication Mode and give '#Wm2008!' as the password.

SQL Server Administrators:

- To make the current user as SQL Server Systems Administrator, click 'Add Current User'.
- To make another user the Administrator, click 'Add'.
- To remove a user from the list, select the user from the list and click 'Remove'.

Else click 'Next'.

Note: It is recommended that users with 'Administrator' rights only should be added to this list.

1	SQL Server 2008 R2 Setup	- 🗆 ×
Database Engine Config Specify Database Engine authenti	uration sation security mode, administrators and data directories.	
Setup Support Rules Installation Type License Terms Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration <b>Database Engine Configuration</b> Error Reporting Installation Configuration Rules Installation Progress	Account Provisioning       Data Directories       FILESTREAM         Specify the authentication mode and administrators for the Database Engine.         Authentication Mode         O       Windows authentication mode         Image: Mixed Mode (SQL Server authentication and Windows authentication)         Specify the password for the SQL Server system administrator (sa) account.         Enter password:         Image: Confirm password:         Specify SQL Server administrators	
Complete	WSL\Tejashree (Tejashree Shiju)       SQL Sen adminis unrestriction the Data         Add Current User       Add	ver trators have cted access to abase Engine.
	< <u>B</u> ack <u>N</u> ext > Cancel	Help



11. Error and Usage Reporting. Retain the default selection and click 'Next'.



12. Installation Progress.

This dialog displays the progress bar for successful completion of the installation. Click 'Next'.

1	SQL Server 2008 R2 Setup	_ 🗆 🗙
Installation Progress		
Setup Support Rules Installation Type License Terms Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Creating servicing cache folder.	
	<u>N</u> ext >	Cancel Help



#### 15. Complete.

The installation is now complete. Note the location of the SQL Server 2008 R2 Express Edition installation Summary log. Click 'Next' to go back to the SQL Server Installation.

1	SQL Server 2008 R2 Setup – 🗆	×
Complete Your SQL Server 2008 R2 installar	tion completed successfully.	
Setup Support Rules Installation Type License Terms Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Summary log file has been saved to the following location:         C\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Log\20121221 172615         \Summary IM46 20121221 172615.txt         Information about the Setup operation or possible next steps:         Image: Your SQL Server 2008 R2 installation completed successfully.	
	Supplemental Information: The following notes apply to this release of SQL Server only. Microsoft Update For information about how to use Microsoft Update to identify updates for SQL Server 2008 R2, see the Microsoft Update Web site at <u>http://go.microsoft.com/fwlink/?Linkld=108409</u> . Samples	~
	Close Help	<b>)</b>

16. Go to the SQL Server Configuration Manager from the Start menu.

This opens details of all the currently installed instances with the Protocol Name and Status. Select the instance and change all the statuses to 'Enabled'.



21. Go to SQL Server Services and click 'Start' to start the services of the recently installed instance. These services should start running.

<b>a</b>	Sql Server Configuration Manager					
<u>File Action View H</u> elp						
<ul> <li>SQL Server Configuration Manager (Local)</li> <li>SQL Server Services</li> <li>SQL Server Network Configuration</li> <li>Protocols for SQLEXPRESS</li> <li>Protocols for MSSQLSERVER</li> <li>SQL Native Client 10.0 Configuration</li> </ul>	Name	State	Start Mode	Log On As	Process ID	Service Type
	SQL Server (SQLE	Running	Automatic	NT AUTHORITY\NE	1652	SQL Server
	SQL Server Agent	Stopped	Other (Boot, Syste	NT AUTHORITY\NE	0	SQL Agent
	👼 SQL Server Browser	Stopped	Other (Boot, Syste	NT AUTHORITY\LO	0	SQL Browser
	SQL Server (MSS	Running	Automatic	NT AUTHORITY\NE	3704	SQL Server
	SQL Server Agent	Stopped	Other (Boot, Syste	NT AUTHORITY\NE	0	SQL Agent