SQL Server Installation on the Server Machine

The steps and screenshots below show what is needed for the installation of the following SQL Server components:

- 1. <u>SQL Server 2012 Express Edition</u> (below)
- 2. SQL Server Management Studio

Steps for SQL Server 2012 Express Edition Installation

- 1. Open the EpiInfoCRC/Database/SQLServer2012Express folder.
- 2. Open the installer for the SQL Server 2012 Express edition by double clicking on **SQLEXPR_x64_ENU.exe** file.

Name		
SQLEXPR_x64_ENU.exe		
SQLManagementStudio_x64_ENU.exe		

Figure 1: SQL Server 2012 Express installation program

3. In the SQL Server Installation Center, choose the menu item **New SQL Server stand-alone installation or** add features to an existing installation.



Figure 2: SQL Server Installation Center

4. Accept the License terms.

🐮 SQL Server 2012 Setup	
License Terms	
License reims	
To install SQL Server 20	12, you must accept the Microsoft Software License Terms.
License Terms	
Product Updates	
Install Setup Files	MICROSOFT SQL SERVER 2012 EXPRESS
	These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft
	updates,
	 supplements,
	Internet-based services, and
	support services
	🕒 🦪 Copy Print
	✓ I accept the license terms.
	Send feature usage data to Microsoft. Feature usage data includes information about your hardware configuration and how you use SQL Server and its components.
	See the Microsoft SQL Server 2012 Privacy Statement for more information.
	< Back Next > Cancel

Figure 3: License Terms dialog

 Ignore the SQL Updates for now. Our assumption is that this is being setup in a scenario with no Internet access and updates are not needed, therefore, just click Next.

🐮 SQL Server 2012 Setup				
Product Updates				
Always install the latest upda	ites to enhance your SQL Server security	v and performance.		
License Terms Product Updates	Include SQL Server product updates			
Install Setup Files	Name	Size (MB)	More Information	
·	SQL Server 2012 SP1 GDR Setup	26	KB 2793634	
	Read our privacy statement online			
	Learn more about SQL Server produ	uct updates		
		[< Back Next >	Cancel

Figure 4: Product Updates dialog

6. Leave the default feature selection as shown below and click **Next**.

髋 SQL Server 2012 Setup			
Feature Selection Select the Express features to in	nstall.		
Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Features: Instance Features Sol Server Replication Shared Features SQL Client Connectivity SDK Redistributable Features		Feature description: The configuration and operation of each instance feature of a SQL Server instances is isolated from other SQL Server instances. SQL Server instances. SQL Server instances. The same computer. Prerequisites for selected features: Already installed: Microsoft.NET Framework 4.0 Windows PowerShell 2.0 Microsoft.NET Framework 3.5 To be installed from media: Microsoft Visual Studio 2010 Shell
	Select All Unselect All Shared feature directory: Shared feature directory (x86):	C:\Program Files\Microso C:\Program Files (x86)\Mi	oft SQL Server\
		< Back	Next > Cancel Help

Figure 5: Feature Selection dialog

This is the most import step. Keep the Named Instance and Instance ID name to be the default Name:
 SQLExpress. DO NOT CHANGE THESE NAMES. Click Next.

SQL Server 2012 Setup		
Instance Configuration	1	
Specify the name and instance	e ID for the instance of SQL Server. Instance ID becomes part of the installation path.	
Setup Support Rules Feature Selection Installation Rules Instance Configuration	Default instance Named instance: SQLExpress Do not change these names	
Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting	Instance ID: SQLEXPRESS Instance root directory: C:\Program Files\Microsoft SQL Server\	
Installation Configuration Rules Installation Progress Complete	SQL Server directory: C:\Program Files\Microsoft SQL Server\MSSQL11.SQLEXPRESS Installed instances:	
	Instance Name Instance ID Features Edition	Version
	< Back Next > Cancel	Help

Figure 6: Instance Configuration – KEEP THE DEFAULT NAMES

8. Leave the default values for Server Configuration and click Next.

🏗 SQL Server 2012 Setup				
Server Configuration				
Specify the service accounts and	d collation configuration.			
Setup Support Rules Feature Selection	Service Accounts Collation		201 5	
Installation Rules Instance Configuration	Service	Account Name	Password	Startup Type
Disk Space Requirements	SQL Server Database Engine	NT Service\MSSQL\$SQL		Automatic 💌
Server Configuration	SQL Server Browser	NT AUTHORITY\LOCAL		Disabled 🔻
Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete				
		< Back Next	> Can	cel Help

Figure 7: Server Configuration dialog

9. In Database Engine Configuration, choose **Mixed Mode** and provide a password for System Administrator (**sa**) account.

SQL Server 2012 Setup Database Engine Confi Specify Database Engine auther	guration ntication security mode, administrators and data directories.
Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Server Configuration Data Directories User Instances FILESTREAM Specify the authentication mode and administrators for the Database Engine. Authentication Mode • Windows authentication mode • • Mixed Mode (SQL Server authentication and Windows authentication) Specify the password for the SQL Server system administrator (sa) account. Enter password: Confirm password: Specify SQL Server administrators EPIINFOCRC\epiadmin (epiadmin) SQL Server administrators to the Database Engine. Add Current User Add
	< Back Next > Cancel Help

Figure 8: Database Engine Configuration dialog with Mixed Mode

Database Engine Confi Specify Database Engine authe	guration tication security mode, administrators and data directories.	
Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Server Configuration Data Directories User Instances FILESTREAM Specify the authentication mode and administrators for the Database Engine. Authentication Mode Windows authentication mode Mixed Mode (SQL Server authentication and Windows authentication) Specify the password for the SQL Server system administrator (sa) account. Enter password: Confirm password: Specify SQL Server administrators EPIINFOCRC\epiadmin (epiadmin) SQL S SQL	erver administrators unrestricted access
	Add Current User Add Remove < Back	el Help

Figure 9: Database Engine Configuration dialog with System Administrator Password

10. On the Error Reporting dialog, click Next.

🐮 SQL Server 2012 Setup	
Error Reporting Help Microsoft improve SQL Se	rver features and services.
Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	 Specify the information that you would like to automatically send to Microsoft to improve future releases of SQL Server. These settings are optional. Microsoft treats this information as confidential. Microsoft may provide updates through Microsoft Update to modify feature usage data. These updates might be downloaded and installed on your machine automatically, depending on your Automatic Update settings. See the Microsoft SQL Server 2012 Privacy Statement for more information. Read more about Microsoft Update and Automatic Update. Send Windows and SQL Server Error Reports to Microsoft or your corporate report server. This setting only applies to services that run without user interaction.
	< Back Next > Cancel Help

Figure 10: Error Reporting dialog

11. At this point, the SQL Server 2012 Setup process should continue to complete the installation.

🏗 SQL Server 2012 Setup	
Installation Progress	
Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Setting feature configuration scenarios.
	Next > Cancel Help

Figure 11: SQL Server 2012 Setup dialog

馪 SQL Server 2012 Setup			
Complete			
Your SQL Server 2012 installation	on completed successfully.		
Setup Support Rules	Information about the Setup operation o	r possible next steps:	
Feature Selection		· · ·	
Installation Rules	Feature	Status	
Instance Configuration	Database Engine Services	Succeeded	
Disk Space Requirements	SQL Server Replication	Succeeded E	
Server Configuration	SQL Browser	Succeeded	
Database Engine Configuration	Sol Client Connectivity	Succeeded	
	SOL Client Connectivity SDK	Succeeded	
Error Reporting			
Installation Configuration Rules			
Installation Progress	Details:		
Complete	Viewing Product Documentation for SQL Server		
	Only the components that you use to view and manage the documentation for SQL Server have been installed. By default, the Help Viewer component uses the online library. After installing SQL Server, you can use the Help Library Manager component to download documentation to your local computer. For more information, see <u>Use Microsoft Books Online for SQL Server</u> < <u>http://go.microsoft.com/fwlink/?LinkID=224683></u> (http://go.microsoft.com/fwlink/?LinkID= D224683) Summary log file has been saved to the following location: <u>C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20170423 203147</u> \Summary EpiInfoCRC 20170423 203147.tst		
		Close Help	

Figure 12: SQL Server 2012 Setup dialog completed

12. Successful installation of SQL Server 2012 Express will add **Microsoft SQL Server 2012** to the Programs list.



Figure 13: Microsoft SQL Server 2012 in the Start Programs list



Figure 14: Expanded Microsoft SQL Server 2012 showing the sub-components

Steps for SQL Server Management Studio Installation

- 1. Open the EpiInfoCRC/Database/SQLServer2012Express folder.
- 2. Open the installer for the SQL Server Management Studio by double clicking on the

SQLManagementStudio_x64_ENU.exe file.



Figure 15: SQL Server Management Studio installation file.

3. In the installation menu item, choose New SQL Server stand-alone installation or add features to an existing installation.

髋 SQL Server Installation Center	
Planning	New SQL Server stand-alone installation or add features to an existing installation
Maintenance	Launch a wizard to install SQL Server 2012 in a non-clustered environment or to add features to an existing SQL Server 2012 instance.
Tools Resources	Upgrade from SQL Server 2005, SQL Server 2008 or SQL Server 2008 R2
Options	Launch a wizard to upgrade SQL Server 2005, SQL Server 2008 or SQL Server 2008 R2 to SQL Server 2012.
Sea Microsoft*	
SQL Server 2012	

Figure 16: SQL Server Installation Center

4. Ignore product updates and click Next.

🏗 SQL Server 2012 Setup			
Product Updates			
Always install the latest updates	s to enhance your SQL Server security	and performance.	
Product Updates	Include SOL Server product upda	ites	
Install Setup Files	Name	Size (MB)	More Information
	SQL Server 2012 SP1 GDR Setup	26	KB 2793634
	1 updates (26 MB) found online.		
	The Setup updates (26 MB) will be installed when you click Next.		
	Read our privacy statement online		
	Learn more about SQL Server produ	ict updates	
		c	Back Next > Cancel

Figure 17: Product Updates dialog

5. On the Installation Type dialog, select Perform a new installation of SQL Server 2012 and click Next.



Figure 18: Installation Type dialog

6. Accept the license terms and click Next.



Figure 19: License Terms dialog

7. In the Feature Selection dialog, keep the default features as shown.

SQL Server 2012 Setup			
Select the Express features to i	nstall.		
Setup Support Rules Installation Type License Terms Feature Selection Installation Rules Disk Space Requirements Error Reporting Installation Configuration Rules Installation Progress Complete	Features: Instance Features Shared Features ✓ Management Tools - Basic ✓ SQL Client Connectivity SDK ← LocalDB Redistributable Features	Feature description: The configuration and operation of each instance feature of a SQL Server instance is isolated from other SQL Server instances. SQL Server instances can operate side-by- side on the same computer. Prerequisites for selected features: Already installed: Microsoft .NET Framework 4.0 Windows PowerShell 2.0 Microsoft .NET Framework 3.5 To be installed from media: Microsoft Visual Studio 2010 Shell	
	Select All Unselect All Shared feature directory: c:\Program Files\Microsoft SQL Server\ Shared feature directory (x86): c:\Program Files (x86)\Microsoft SQL Server\		
	< Back	Next > Cancel Help	

Figure 20: Feature Selection dialog

8. In the Error Reporting section, click **Next**.

📸 SQL Server 2012 Setup	
Error Reporting	
Help Microsoft improve SQL S	erver features and services.
Setup Support Rules Installation Type License Terms Feature Selection Installation Rules Disk Space Requirements Error Reporting Installation Configuration Rules Installation Progress Complete	Specify the information that you would like to automatically send to Microsoft to improve future releases of SQL Server. These settings are optional. Microsoft treats this information as confidential. Microsoft may provide updates through Microsoft Update to modify feature usage data. These updates might be downloaded and installed on your machine automatically, depending on your Automatic Update settings. See the Microsoft SQL Server 2012 Privacy Statement for more information. Read more about Microsoft Update and Automatic Update. See Send Windows and SQL Server Error Reports to Microsoft or your corporate report server. This setting only applies to services that run without user interaction.
	< Back Next > Cancel Help

Figure 21: Error Reporting dialog

9. At this point, the SQL Server Management Studio installation should proceed and complete the installation.

📸 SQL Server 2012 Setup	
Installation Progress	
Setup Support Rules Installation Type License Terms Feature Selection Installation Rules Disk Space Requirements Error Reporting Installation Configuration Rules Installation Progress Complete	Finalizing setting calculations.
	Next > Cancel Help

Figure 22: SQL Server 2012 Setup dialog

🐮 SQL Server 2012 Setup		
Complete Your SQL Server 2012 installatic	on completed successfully.	
Setup Support Rules Installation Type License Terms Feature Selection Installation Rules Disk Space Requirements Error Reporting	Information about the Setup opera Feature Management Tools - Basic	tion or possible next steps: Status Succeeded
Error reporting Installation Configuration Rules Installation Progress Complete	Details: Viewing Product Documentation for SQL Server Only the components that you use to view and manage the documentation for SQL Server have been installed. By default, the Help Viewer component uses the online library. After installing SQL Server, you can use the Help Library Manager component to download documentation to your local computer. For more information, see Use Microsoft Books Online for SQL Server. http://go.microsoft.com/fwlink/?LinkID=224683 (http://go.microsoft.com/fwlink/?LinkID=224683 Summary log file has been saved to the following location: C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20170423 205157.	
		Close Help

Figure 23: SQL Server 2012 Setup dialog completed

Successful installation of SQL Server Management Studio will add it to the Microsoft SQL Server 2012
 Programs list on the Start Programs menu.



Figure 24: Expanded Microsoft SQL Server 2012 showing the sub-components

- 11. Confirm that the installation of SQL Server Management Studio was successful by launching it and logging in using either:
 - a. Windows Authentication, or
 - b. SQL Server Authentication using the 'sa' user name and the password you created for the 'sa' account.

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	File Fild? View Tools Wiedow Hep		
Appendix And Appendix Ap	[1]	· · · · · · · · · · · · · · · · · · ·	
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Figure 25: SQL Server 2012 Login dialog



Figure 26: SQL Server 2012 Management Studio Object Explorer