#### **Microsoft SQL Server 2012**

# Installation guide and configuration settings for Microsoft Windows server version 2008/2008R2/2012 ( December 2012 )

This guide explains the different steps for installing and configuring Microsoft SQL Server 2012 for COBA's software.

- **1.** Technical requirements
- 2. Installing Microsoft SQL Server 2012



### **1** - Technical requirements

#### This table shows the different versions of SQL Server 2012 supported by COBA's software.

Version	Max Number of Cores <sup>1</sup>	64-bit Support	Max-RAM <sup>2</sup>	Max-DB Size
Enterprise Edition	Max OS supported	Yes	Operation system maximum	524 PB
Standard Edition <sup>3</sup>	16	Yes	64 GB	524 PB
Express Edition	4	Yes	1 GB	10 GB

<sup>1</sup> MS SQL Server 2012 is licensed as CPU Cores not CPU Sockets.

<sup>2</sup> If the minimum RAM for the server is not met, the Setup program will display a warning.

<sup>3</sup>COBA's recommended version for the majority of installations.

**IMPORTANT: Microsoft SQL Server 2012 SP1** is <u>not yet</u> supported by COBA's software.

## 2 - Installing Microsoft SQL Server 2012

Run Setup from installation CD

💱 SQL Server Installation Center	
Planning Installation	Hardware and Software Requirements View the 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	How to Get SQL Server Data Tools SQL Server Data Tools provides an integrated environment for database developers to carry out all their database design work for any SQL Server platform.
	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 2008 R2, SQL Server 2008 or SQL Server 2005 components that are installed and identifies issues to fix either before or after you upgrade to SQL Server 2012.
	Online Installation Help Launch the online installation documentation.
	How to Get Started with SQL Server 2012 Failover Clustering Read instructions on how to get started with SQL Server 2012 failover clustering.
SQL Server 2012	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 steps on a new SharePoint 2010 server.

Click on Installation along the left side of this window below Planning.

🚼 SQL Server Installation Center	
Planning Installation Maintenance Tools	New SQL Server stand-alone installation or add features to an existing installation Launch a wizard to install SQL Server 2012 in a non-clustered environment or to add features to an existing SQL Server 2012 instance.
Resources Advanced	New SQL Server failover duster installation Launch a wizard to install a single-node SQL Server 2012 failover duster.
Options	Add node to a SQL Server failover duster Launch a wizard to add a node to an existing SQL Server 2012 failover duster.
	Upgrade from SQL Server 2005, SQL Server 2008 or SQL Server 2008 R2 Launch a wizard to upgrade SQL Server 2005, SQL Server 2008 or SQL Server 2008 R2 to SQL Server 2012.
SQL Server: 2012	

Click New SQL Server stand-alone installation or add features to an existing installation to continue

🚼 SQL Server 2012 Setup		
Setup Support Rules		
Setup Support Rules identify pro before Setup can continue.	oblems that might occur when you install SQL Server Setup support files. Failures must be corrected	
Setup Support Rules	Operation completed. Passed: 8. Failed 0. Warning 0. Skipped 0.	
	Show details >>	Re-run
	View detailed report	
		1 1
	ОК	Cancel

After the Setup Support Rules are completed click **OK** to continue the installation

🍀 SQL Server 2012 Setup		×
Product Key Specify the edition of SQL Serve	er 2012 to install.	
Product Key License Terms Product Updates Install Setup Files	Validate this instance of SQL Server 2012 by entering the 25-character key from the Microsoft certificate of authenticity or product packaging. You can also specify a free edition of SQL Server, such as 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. To upgrade from one edition to another, run the Edition Upgrade Wizard.  Specify a free edition:  Evaluation  Function  Constrained from the product key:  Constrained from th	
	< Back Next > Cancel	

Enter the product key and click **Next** to begin the installation of the Server components

🏶 SQL Server 2012 Setup		J×
License Terms To install SQL Server 2012, yo	u must accept the Microsoft Software License Terms.	
Product Key License Terms Product Updates Install Setup Files	MICROSOFT SOFTWARE LICENSE TERMS         MICROSOFT SQL SERVER 2012 DEVELOPER         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         for this software, unless other terms accompany those items. If so, those terms apply.	
	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.	nt
	< Back Next > Cancel	

Check I accept the license terms and then click Next

🏶 SQL Server 2012 Setup		
Product Updates	es to enhance your SQL Server security and performance.	
Product Key License Terms Product Updates Install Setup Files	Read our privacy statement online         Learn more about SQL Server product updates	Skip Scan
		< Back Next > Cancel

Uncheck "Include SQL Server product updates" to cancel the Automatic update process

🚼 SQL Server 2012 Setup		
Setup Support Rules		
Setup Support Rules identify pro before Setup can continue.	blems that might occur when you install SQL Server Setup support files. Failures must be corrected	
Setup Support Rules Setup Role Feature Selection Installation Rules Disk Space Requirements Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Operation completed. Passed: 8. Failed 0. Warning 0. Skipped 0. Show details >> View detailed report	Re-run
	< Back Next > Cancel	Help

After the Setup Support Rules are completed click **Next** to continue the installation

🎲 SQL Server 2012 Setup	Show items with Quick Look or as an instant slideshow
Setup Role	
Click the SQL Server Feature Inst install a specific configuration.	tallation option to individually select which feature components to install, or click a feature role to
Setup Support Rules	SQL Server Feature Installation
Setup Role	Install SQL Server Database Engine Services, Analysis Services, Reporting Services, Integration Services, and other features.
Installation Rules	C SQL Server PowerPivot for SharePoint
Disk Space Requirements	Install PowerPivot for SharePoint on a new or existing SharePoint 2010 server to support PowerPivot data access in the farm. Optionally, add the SQL Server relational database engine to use as the new farm's database server.
Installation Configuration Rules	🔽 Add SQL Server Database Relational Engine Services to this installation.
Ready to Install	C All Features With Defaults
Installation Progress	Install all features using default values for the service accounts.
Complete	
	< Back Next > Cancel Help

Choose SQL Server Feature Installation and click Next

🚼 SQL Server 2012 Setup Feature Selection Select the Developer features to install. Setup Support Rules Features: Feature description: Setup Role Instance Features Includes the Database Engine, the core . Database Engine Services service for storing, processing and securing data. The Database Engine Feature Selection SQL Server Replication Installation Rules provides controlled access and rapid Full-Text and Semantic Extractions for Search transaction processing and also provides Instance Configuration Data Quality Services rich support for sustaining high availability. **Disk Space Requirements** Analysis Services The Database Engine also provides support for the utility control point in the SQL Server Configuration Reporting Services - Native Server Utility. Only Database Engine Shared Features Database Engine Configuration Services and Analysis Services can be 🗾 Data Quality Client dustered. Error Reporting SQL Server Data Tools -Installation Configuration Rules Client Tools Connectivity Prerequisites for selected features: Ready to Install Integration Services Already installed: Client Tools Backwards Compatibility Installation Progress Microsoft .NET Framework 3.5 Client Tools SDK Complete To be installed from media: Documentation Components Microsoft .NET Framework 4.0 (may require Management Tools - Basic Microsoft Visual Studio 2010 Shell Management Tools - Complete Needs to be manually installed: Distributed Replay Controller Windows PowerShell 2.0 Distributed Replay Client SQL Client Connectivity SDK Redistributable Features • Þ Select All Unselect All Shared feature directory: C:\Program Files\Microsoft SQL Server\ .... < Back Next > Cancel Help

Select the features as shown in the image above for installation then click Next

🎲 SQL Server 2012 Setup		<u>_ 0 ×</u>
Installation Rules		
Setup is running rules to determi	e if the installation process will be blocked. For more information, click Help.	
Setup Support Rules Product Key License Terms Setup Role Feature Selection <b>Installation Rules</b> Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Operation completed. Passed: 2. Failed 0. Warning 0. Skipped 0. Show details >> View detailed report	Re-run
	< Back Next >	Cancel Help

Click Next to proceed

🏶 SQL Server 2012 Setup						<u>_                                    </u>
Instance Configuration Specify the name and instance II	<b>n</b> D for the instance of SQL S	erver. Instance ID beco	mes part of the installa	tion path.		
Setup Support Rules Product Key License Terms Setup Role Feature Selection Installation Rules <b>Instance Configuration</b> Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Default instance     Named instance:     Instance ID:     Instance root directory:     SQL Server directory:     Installed instances:	COBA COBA C: \Program Files \Micro C: \Program Files \Micro	soft SQL Server\ osoft SQL Server\MSSQ	L11.COBA		
	Instance Name	Instance ID	Features	Edition	Version	
			< Back	Next > Ca	ancel H	telp

Choose  $\ensuremath{\textbf{Named}}$  instance and type  $\ensuremath{\textbf{COBA}}$  as the value and click  $\ensuremath{\textbf{Next}}$ 

Even if this is the only instance of MS SQL Server to be installed, you must name the Instance Coba for the Coba Management Software to work correctly.

🏶 SQL Server 2012 Setup	
Disk Space Requireme	nts
Review the disk space summary	for the SQL Server features you selected.
Setup Support Rules Product Key License Terms Setup Role Feature Selection Installation Rules Instance Configuration	Disk Usage Summary: Drive C: 2679 MB required, 6903 MB available System Drive (C: ): 1033 MB required Shared Install Directory (C: \Program Files\Microsoft SQL Server\): 804 MB required Instance Directory (C: \Program Files\Microsoft SQL Server\): 842 MB required
Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	
	< Back Next > Cancel Help

Click Next after verifying the Disk Space Requirements

Server Configuration					
Specify the service accounts and collation confi	guration.				
Setup Support Rules Service Acc Product Key License Terms Microsof	ounts Collation	separate account for each SQL :	Server service.		
Setup Role Service		Account Name	Password	Startup Type	
Feature Selection SQL Ser	ver Agent	NT AUTHORITY WETWORK		Manual	-
Installation Rules SQL Ser	ver Database Engine	NT AUTHORITY WETWORK		Automatic	
Instance Configuration SQL Ser	ver Browser	NT AUTHORITY LOCAL SE		Disabled	
Disk Space Requirements			1		_
Server Configuration					
Database Engine Configuration					
Error Reporting					
Installation Configuration Rules					
Ready to Install					
Installation Progress					
Complete					
/ <del></del>					
		< Back	Next > Ca	ncel H	elp

Select the System account for SQL Server Agent and SQL Server Database Engine and set the services to **Automatic** Startup

🍀 SQL Server 2012 Setup		
Server Configuration	collation configuration.	
Setup Support Rules Product Key License Terms Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements <b>Server Configuration</b> Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Service Accounts       Collation         Database Engine:       [Latin1_General_CI_AS         Latin1-General, case-insensitive, accent-sensitive, kanatype-insensitive, width-insensitive for Unicode Data, SQL Server Sort Order 52 on Code Page 1252 for non-Unicode Data	Customize
	< Back Next > Cancel	Help

Check the **Collation** tab to verify that the settings are the same as the above image then click **Next** 

髂 SQL Server 2012 Setup		<u>_                                    </u>
Database Engine Confi	guration	
Specify Database Engine authenti	cation security mode, administrators and data directories.	
Setup Support Rules Product Key License Terms Setup Role Feature Selection Installation Rules Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Server Configuration       Data Directories       FILESTREAM         Specify the authentication mode and administrators for the Database Engine.         Authentication Mode <ul> <li>Windows authentication mode</li> <li>Mixed Mode (SQL Server authentication and Windows authentication)</li> <li>Specify the password for the SQL Server system administrator (sa) account.</li> </ul> Enter password: <ul> <li>Authentistrators</li> <li>Confirm password:</li> <li>Specify SQL Server administrators</li> </ul> EDUCALIVRES\tech (tech)       SQL Server administrators         Add Current User       Add	ver administrators have cted access to the e Engine.
	< Back Next >	Cancel Help

Select **Mixed Mode** authentication mode and enter in a password for the SA account.

Add Builtin\Administrators to the SQL Server administrators group or any local administrator account

🎲 SQL Server 2012 Setup
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Database Engine Configuration Specify Database Engine authentication security mode, administrators and data directories.				
Specify Database Engine authenti Setup Support Rules Product Key License Terms Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Server Configuration Data Dir Data root directory: System database directory: User database directory: User databaselog directory: Temp DB directory: Temp DB log directory: Backup directory:	ectories FILESTREAM C:\Program Files\Microsoft SQL Server\MSSQL11.COBA\MSSQL\Data C:\Program Files\Microsoft SQL Server\MSSQL11.COBA\MSSQL\Badkup		
		< Back Next > Cancel Help		

Click the Data Directories tab and verify the paths then click Next to continue

🚼 SQL Server 2012 Setup	
Error Reporting	
Help Microsoft improve SQL Ser	ver features and services.
Setup Support Rules Product Key License Terms Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration <b>Error Reporting</b> Installation Configuration Rules Ready to Install 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

We leave these options to the clients discretion on whether to select them or not

🏶 SQL Server 2012 Setup						_ 🗆 🗵
Installation Configura	tion Rules					
Setup is running rules to determi	ne if the installation process will be b	blocked. For more infor	mation, click He	lp.		
Setup Support Rules Product Key License Terms Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting <b>Installation Configuration Rul</b> Ready to Install Installation Progress Complete	Operation completed. Passed: 4. Show details >> View detailed report	Failed 0. Warning 0.	Skipped 0.			Re-run
			< Back	Next >	Cancel	Help

Click Next to proceed



Click Install to complete the installation process

SQL Server 2012 Setup				
Complete				
Your SQL Server 2012 installation completed successfully.				
Setup Support Rules	Information about the Setup operation or possi	ble next steps:		
Product Key	Feature	Status		
License Terms	Management Tools - Complete	Succeeded		
Setup Role	Client Tools Connectivity	Succeeded		
Feature Selection	Client Tools Backwards Compatibility	Succeeded		
Installation Rules	Management Tools - Basic	Succeeded		
Instance Configuration	Database Engine Services	Succeeded		
	SQL Browser	Succeeded		
Disk Space Requirements	SQL Writer	Succeeded		
Server Configuration	SQL Client Connectivity	Succeeded		
Database Engine Configuration				
Error Reporting				
Installation Configuration Rules	Details:			
Deadu ta Tastall	Viewing Product Documentation for SQL Server			
Ready to Install				
Installation Progress	Only the components that you use to view	v and manage the documentation for SQL Server have		
Complete	been installed. By default, the Help Viewe	er component uses the online library. After installing SQL		
	Server, you can use the Help Library Man	ager component to download documentation to your		
	local computer. For more information, see	e Use Microsoft Books Online for SQL Server		
	<u><http: ?linkid="2&lt;/u" fwlink="" go.microsoft.com=""></http:></u>	224683> (http://go.microsoft.com/fwlink/?LinkID=		
	<u>224683</u> ).			
		<u> </u>		
	Summary log file has been saved to the followin	ig location:		
	C:\Program Files\Microsoft SQL Server\110\Setu W0832_20121127_134809.bt	up Bootstrap\Log\20121127_134809\Summary_Srv-Coba-		
		Close Help		

Once the installation is completed, verify that all elements were successfully installed and click Close