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Introduction

This Tech Note provides step-by-step procedures to install SQL Server 2008 on a 32- or 64-bit Operating System.

Wonderware Historian version 10.0 supports both 32-bit and 64-bit Windows Server 2008 SP2 and Vista SP2 (Ultimate, Business, and Enterprise) **Operating System** editions. However, at the time of release, Historian 10.0 *only* supports **Microsoft SQL Server** 2005 and 2008 **32-bit version**. You can use Historian with other Wonderware products requiring 32-bit SQL Server such as Wonderware Information Server version 3.1.

Note: Support for 64-bit versions of SQL Server is planned for a future Historian release.

You should allow approximately 1 hour to complete the installation.

Application Versions

Wonderware Historian 10.0

The following operating systems are supported by Wonderware Historian Server 10.0:

- Windows Server 2003 Standard Edition SP2
- Windows Server 2003 Standard Edition R2 SP2
- Windows Server 2003 Enterprise Edition SP2
- Windows Server 2003 Enterprise Edition R2 SP2
- Windows Server 2008 SP2 Standard and Enterprise Editions (32-bit and 64-bit)
- Windows Vista SP2 Ultimate, Business, and Enterprise Editions (32-bit and 64-bit)

Microsoft SQL Server 2008:

- SQL Server 2008 32-bit SP1 Enterprise Edition
- SQL Server 2008 32-bit SP1 Express

- SQL Server 2008 32-bit SP1 Standard Edition
- SQL Server 2005 32-bit SP3 Standard Edition

Installing SQL Server 2008

1. Insert the SQL Server 2008 installation DVD into your DVD drive. If the autorun feature on your DVD drive does not launch the installation program, navigate to the root of the DVD and double-click **Setup.exe**. You will see the **SQL Server Installation Center**:

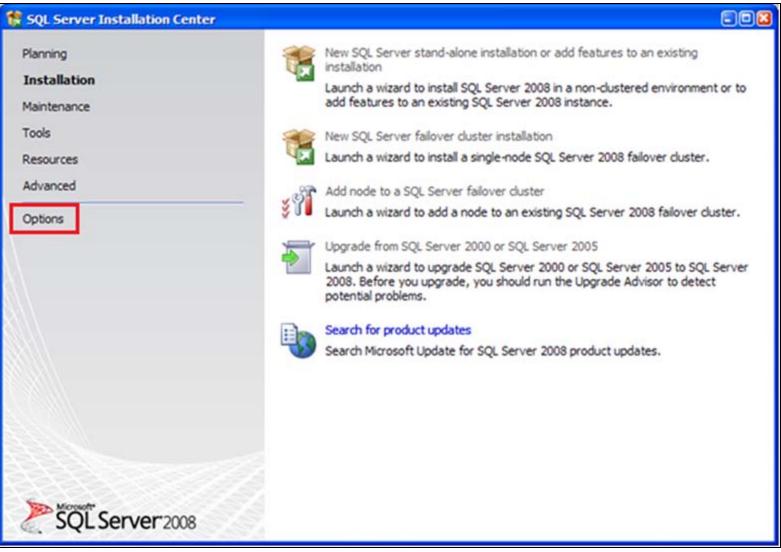


FIGURE 1: SQL SERVER INSTALLATION CENTER

If you click **New SQL Server stand-alone...** you will install the unsupported 64-bit version.

2. Click the **Options** item and select the **x86 Processor Type** (Figure 2 below). **This option installs the 32-bit architecture version of SQL Server.**

SQL Server Installation Cen	ter	-미즈
Planning Installation Maintenance Tools Resources Advanced Options	Specify the architecture of SQL Server 2008 to install, and specify the media. Processor Type: • x86 • x64 • ia64 Installation Media Root Directory: G:\	he location of SQL Server installation

FIGURE 2: x86 PROCESSOR TYPE OPTION

3. Click Installation and then New SQL Server stand-alone... (Figure 1 above) to install the 32-bit SQL Server 2008.

This installation will now run the Setup Support Rules operation. This operation identifies problems that can happen during the installation of SQL Server Setup Support files.

You must correct all the problems before the install can continue. After the operation completed, all the setup support rules must be passed.

• Click the Show Details button to see the status of the rules (Figure 3 below).

🎲 SQL Server 2008 Setup			
Setup Support Rules Setup Support Rules identify probefore Setup can continue.	oblems that	might occur when you install SQL Server Setup support files	. Failures must be corrected
Setup Support Rules	Hid	ration completed. Passed: 6. Failed 0. Warning 0. Skippe e detail <u>s</u> << <u>vdetailed report</u>	d 0. <u>R</u> e-run
		Rule	Status
	0	Minimum operating system version	Passed
	0	Setup administrator	Passed
	0	Restart computer	Passed
	0	Windows Management Instrumentation (WMI) service	Passed
	0	Consistency validation for SQL Server registry keys	Passed
	0	Long path names to files on SQL Server installation media	Passed
			OK Cancel Help

FIGURE 3: COMPLETED SETUP SUPPORT RULES

- 4. To continue, click **OK**.
- 5. On the Setup Support Files screen, click Install to continue with the support files installation.

SQL Server 2008 Setup			800
Setup Support Files Click Install to install Setup S	upport files. To install or update SQL S	erver 2008, these files are required.	
Setup Support Files	The following components ar	e required for SQL Server Setup:	
	Feature Name	Status	
	Setup Support Files		
	Gathering user settings.		
		< <u>B</u> ack Install	Cancel

FIGURE 4: SUPPORT FILES INSTALLATION

6. When the Support File installation is finished, click Next.

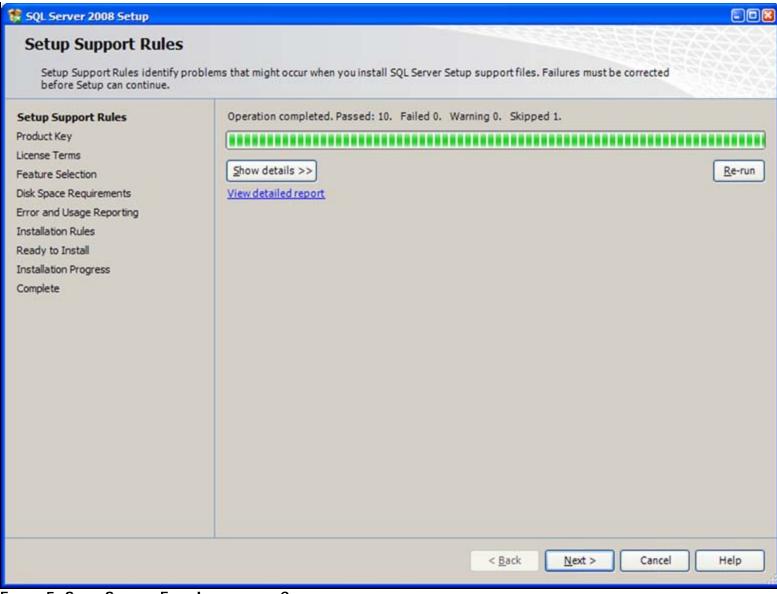


FIGURE 5: SETUP SUPPORT FILES INSTALLATION COMPLETED

7. On the **Product Key** dialog box, click the **Enter the product key** option. The embedded product key should appear in the field.

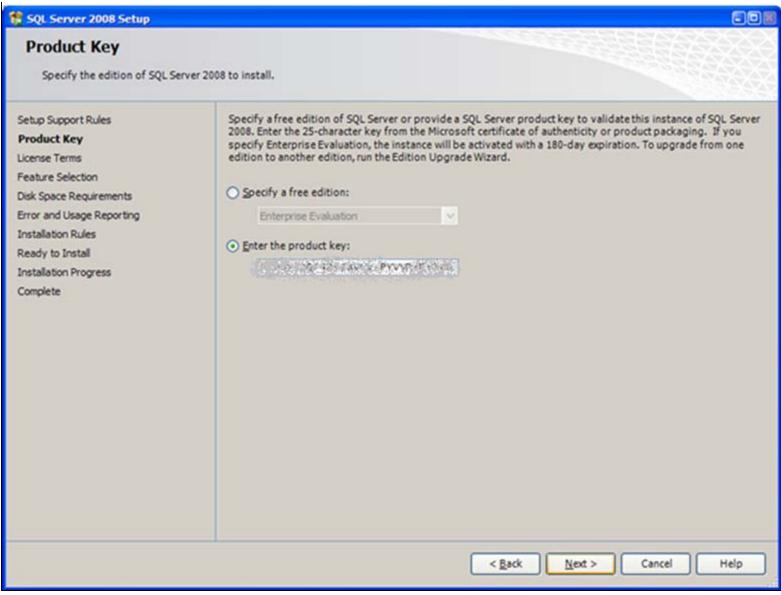


FIGURE 6: EMBEDDED PRODUCT KEY

- 8. Click Next.
- 9. Review the licence terms, and if you agree, click I Accept the License Terms and click Next.

accept the Microsoft Software License Terms.
MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT SQL SERVER 2008 STANDARD EDITION 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. By USING THE SOFTWARE, YOU ACCEPT THESE TERMS. IF YOU DO NOT ACCEPT THEM, DO NOT USE THE SOFTWARE, INSTEAD, RETURN IT TO THE RETAILER FOR A REFUND OR CREDIT. If you cannot obtain a refund there, contact Microsoft or the Microsoft affiliate serving I accept the license terms.

FIGURE 7: ACCEPT LICENSE TERMS

10. Select the features shown in Figure 8 (below). Analysis and Reporting Services (for WIS integration) are optional selections.

SQL Server Replication and Full Text Search are also optional selections that do not impact Historian functionality.

🏶 SQL Server 2008 Setup		
Feature Selection	I. For clustered installations, only Database Engine Services and Anal	
Ready to Install Installation Progress Complete	✓ Management Tools - Basic ✓ Management Tools - Complete SQL Client Connectivity SDK Microsoft Sync Framework Redistributable Features Select All Shared feature directory: C:\Program Files\Microsoft SQL Serve < Back	er\ <u>N</u> ext > Cancel Help

FIGURE 8: SELECT FEATURES

11. Click Next.

This example includes **Reporting Services** because the Wonderware Information Server is installed later.

12. On the Instance Selection dialog box, select the Default Instance (Figure 9 below). Wonderware Products do not support Named Instances.

🏶 SQL Server 2008 Setup						8	
Instance Configuration Specify the name and instance ID for	or the SQL Server instan	ce.					
Setup Support Rules Product Key License Terms Feature Selection	<u>D</u> efault instance Named instance:		MSSQLSB	IVER			
Instance Configuration	Instance ID:		MSSQLSE	IVER			
Disk Space Requirements Server Configuration	Instance goot direct	ory:	C: Progra	m Files Microsoft SQL	Server\		
Database Engine Configuration Analysis Services Configuration Reporting Services Configuration Error and Usage Reporting Installation Rules Ready to Install		rectory: directory	C:\Progra	m Files\Microsoft SC	(L Server\MSSQL10.MS (L Server\MSAS10.MSS (L Server\MSRS10.MSS	QLSERVER	
Installation Progress	Instance	Featu	res	Edition	Version	Instance ID	
Complete					k Next >	Cancel Help	
				< <u>B</u> ac	k <u>N</u> ext >	Cancel Help	



Accept the default Instance ID and Instance Root Directory.

13. Click Next.

Note: MS SQL 2008 Express Edition is supported for Historian 10.0. If you are installing MS SQL 2008 Express, make sure it actually installs the Default instance.

There is an issue in the Express install that even if you select the Default instance required by the Wonderware Historian, it still results in the database engine being installed as the instance named **SQLEXPRESS**.

As a workaround, you can select the option to install a Named instance and enter **MSSQLSERVER** as the instance name (see the information about **CR L00090827** in the Historian's Readme.html file).

💱 SQL Server 2008 Setup		
Disk Space Requirement	ts rthe SQL Server features you selected.	
Setup Support Rules Product Key License Terms Feature Selection Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Reporting Services Configuration Error and Usage Reporting Installation Rules Ready to Install Installation Progress Complete	Disk Usage Summary: Prive C: 1985 MB required, 80077 MB available System Drive (C:): 783 MB required Shared Install Directory (C: \Program Files\Microsoft SQL Server\): 558 MB required Instance Directory (C: \Program Files\Microsoft SQL Server\): 644 MB required 	
	< <u>B</u> ack <u>N</u> ext > Cancel	Help

FIGURE 10: DISK SPACE REQUIREMENTS

- 14. Confirm the Disk Space Requirements and click Next.
- 15. In the Server Configuration window, click Use the same account for all SQL Server services, then select NT Authority\System from the drop-down list (Figure 11 below).

SQL Server 2008 Setup Server Configuration Specify the configuration.					
Setup Support Rules Product Key License Terms Feature Selection Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration	Service Accounts Collation Microsoft recommends that you of Service SQL Server Agent SQL Server Database Engine SQL Server Analysis Services Sql Server Reporting Services	Account Name	each SQL Server servic Password	ce. Startup Type Manual Automatic Automatic Automatic	
Reporting Services Configuration Fror and Usage Reporting Installation Rules Ready to Install Installation Progress	These services will be configured older Windows versions the user	automatically where possib	the same account for ble to use a low privile rivilege account. For r	ege account. On so	me
Complete	Use the same account for all Se Specify a user name and passwork	QL Server 2008 services and for all SQL Server servic		Browse	×
		< <u>B</u> ack	<u>N</u> ext >	Cancel	felp

FIGURE 11: SERVER CONFIGURATION

- 16. Click **OK** then **Next**.
- 17. On the **Database Engine Configuration** screen, select the **Mixed Mode** (SQL Server authentication and Windows Authentication) in the **Account Provisioning** tab (Figure 12 below). Mixed Mode (SQL Server authentication and Windows authentication) is recommended but optional.
- 18. Then type a password for the built-in SQL System Administrator account (sa). Configure the sa-level with a strong password for security purposes.
- 19. Click Add to add any users who you want to have administrator rights when using Windows authentication. In this example, a

domain account and the Administrator user are visible.

SQL Server 2008 Setup			80
Database Engine Config Specify Database Engine authentice		strators and data directories.	
Setup Support Rules Product Key License Terms Feature Selection Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Reporting Services Configuration Error and Usage Reporting	Specify the authention Authentication Mode <u>Windows authent</u> <u>Mixed Mode (SQL</u> Built-in SQL Server s	tication mode L Server authentication and Windows aut system administrator account	
Installation Rules Ready to Install Installation Progress Complete	Specify SQL Server a COSP/briannu Nouv Administrator (Admin	ven, Brian) istrator)	SQL Server administrators have unrestricted access to the Database Engine.
	Add <u>C</u> urrent User	Add Remove	<u>N</u> ext > Cancel Help

FIGURE 12: DATABASE ENGINE CONFIGURATION

20. Click the **Data Directories** tab to review all the directories then click **Next** (Figure 13 below).

寶 SQL Server 2008 Setup			
Database Engine Configue Specify Database Engine authentical		and data directories.	
Setup Support Rules Product Key License Terms Feature Selection Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Reporting Services Configuration Error and Usage Reporting Installation Rules Ready to Install Installation Progress Complete	Data root directory: System database directory: User database directory:	ctories FILESTREAM C: \Program Files \Microsoft SQL Server \ C: \Program Files \Microsoft SQL Server \MSSQL 10.MSSQLSERVER \MSSQL \ C: \Program Files \Microsoft SQL Server \MSSQL 10.MSSQLSERVER \MSSQL \ C: \Program Files \Microsoft SQL Server \MSSQL 10.MSSQLSERVER \MSSQL \ C: \Program Files \Microsoft SQL Server \MSSQL 10.MSSQLSERVER \MSSQL \ C: \Program Files \Microsoft SQL Server \MSSQL 10.MSSQLSERVER \MSSQL \ C: \Program Files \Microsoft SQL Server \MSSQL 10.MSSQLSERVER \MSSQL \ C: \Program Files \Microsoft SQL Server \MSSQL 10.MSSQLSERVER \MSSQL \ C: \Program Files \Microsoft SQL Server \MSSQL 10.MSSQLSERVER \MSSQL \ 	
		< <u>B</u> ack <u>N</u> ext > Cancel Help	

FIGURE 13: DATABASE ENGINE CONFIGURATION > DATA DIRECTORIES

21. On the Analysis Services Configuration window, click **Add** to specify the users to have administrative permissions for Analysis Services.

SQL Server 2008 Setup		
Analysis Services Config Specify Analysis Services administra		
Setup Support Rules Product Key License Terms Feature Selection Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Reporting Services Configuration Error and Usage Reporting Installation Rules Ready to Install Installation Progress Complete	Account Provisioning Data Directories Specify which users have administrative permissions CORP\briannu (Nguyen, Brian) Administrator (Administrator)	for Analysis Services administrators have unrestricted access to Analysis Services.
		Back Next > Cancel Help

FIGURE 14: ANALYSIS SERVICES CONFIGURATION

22. Click the Data Directories tab to examine the folder.

Analysis Services Configuration Setup Support Rules Product Key License Terms Peature Selection Instance Configuration Disk Space Requirements Service Configuration Database Engine Configuration Patabase Engine Configuration Protuct Services Configuration Installation Rules Ready to Install Installation Rules Ready to Install Installation Progress Complete	800			SQL Server 2008 Setup
Product Key Specify the data directories for SQL Server Analysis Services. License Terms Data directory: C:\Program Files\Microsoft SQL Server\MSAS10.MSSQLSERVER\OLAP\Data Instance Configuration Disk Space Requirements Log file directory: C:\Program Files\Microsoft SQL Server\MSAS10.MSSQLSERVER\OLAP\Log Server Configuration Image: Temp directory: C:\Program Files\Microsoft SQL Server\MSAS10.MSSQLSERVER\OLAP\Log Database Engine Configuration Temp directory: C:\Program Files\Microsoft SQL Server\MSAS10.MSSQLSERVER\OLAP\Log Analysis Services Configuration Backgup directory: C:\Program Files\Microsoft SQL Server\MSAS10.MSSQLSERVER\OLAP\Backup Reporting Services Configuration Backgup directory: C:\Program Files\Microsoft SQL Server\MSAS10.MSSQLSERVER\OLAP\Backup Installation Rules Ready to Install Installation Progress Server Suppression		ories.		
		Ata directories for SQL Server Analysis Services. Y: C:\Program Files\Microsoft SQL Server\MSAS10.MSSQLSERVER\OLAP\Data X: C:\Program Files\Microsoft SQL Server\MSAS10.MSSQLSERVER\OLAP\Log Y: C:\Program Files\Microsoft SQL Server\MSAS10.MSSQLSERVER\OLAP\Temp	Specify the data di <u>D</u> ata directory: <u>L</u> og file directory: <u>T</u> emp directory: Backup directory:	Product Key License Terms Feature Selection Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Reporting Services Configuration Error and Usage Reporting Installation Rules Ready to Install Installation Progress

FIGURE 15: ANALYSIS SERVICES CONFIGURATION > DATA DIRECTORIES

- 23. Click Next.
- 24. On the Reporting Services Configuration, click **Install the native mode default configuration** option and click **Next** (Figure 16 below). In this example, Wonderware Information Server is used as the native mode.

SQL Server 2008 Setup	
Reporting Services Con Specify the Reporting Services con	
Setup Support Rules Feature Selection Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration Error and Usage Reporting Installation Rules Ready to Install Installation Progress Complete	 Install the native mode default configuration. Setup will install the report server and configure it in Native mode to use the default values. The report server is usable as soon as Setup is finished. Install the SharePoint integrated mode default configuration. Setup will create the report server database in SharePoint integrated mode and configure the report server to use the default values. However, integrated operations will not be supported until a minimal installation of a SharePoint product or technology is deployed on the report server computer and the Reporting Services Add: in for SharePoint Technologies is installed and configured on the instance of the SharePoint product or technology you are using. Install, but do not configure the report server. Setup will install, but will not configure, the report server software. After installation is finished, you can use the Reporting Services Configuration tool to set options that are required to run the report server.
	< <u>B</u> ack Cancel Help

FIGURE 16: REPORTING SERVICES CONFIGURATION

25. Accept the default settings for the rest of the installation sequence. The installation will then proceed and you will see each module install.

SQL Server 2008 Setup		
Error and Usage Reporting Help Microsoft improve SQL Server features and services.		
Setup Support Rules Product Key License Terms Feature Selection Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Reporting Services Configuration Error and Usage Reporting Installation 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 though Microsoft Update to modify feature usage data. These updates might be downloaded and installed on your machine automatically, depending on your Automatic Update settings. View the Microsoft policy for SQL Server privacy and data collection. 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. Send feature usage data to Microsoft. Feature usage data includes information about your hardware configuration and how you use Microsoft software and services.	
	< <u>B</u> ack <u>N</u> ext > Cancel Help	

FIGURE 17: ERROR AND USAGE REPORTING

26. When the Installation completes, click the **Show details** button.

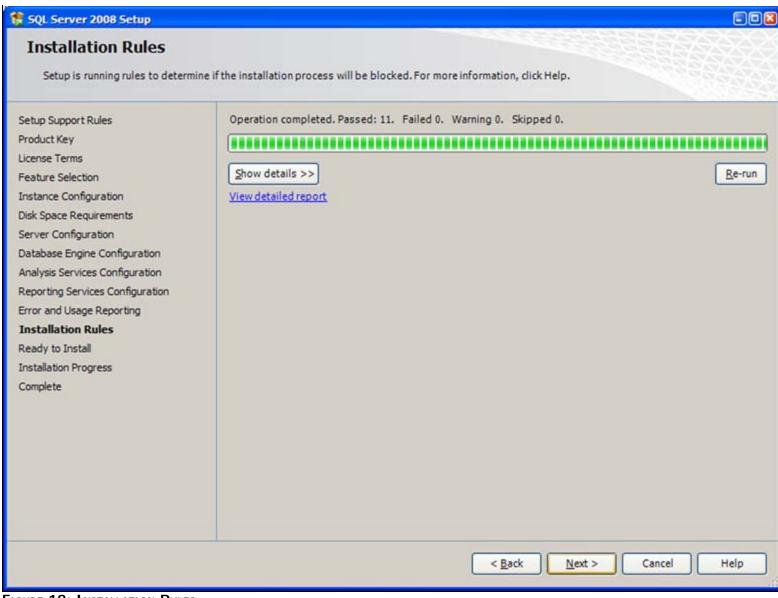


FIGURE 18: INSTALLATION RULES

		-		
etup Support Rules roduct Key	Operation completed. Passed: 11. Failed 0. Warning 0. Skipped 0.			
icense Terms				
eature Selection	Hide details << Re-ru			
nstance Configuration	View detailed report			
isk Space Requirements	Bule	Status		
erver Configuration	Same architecture installation	Passed		
atabase Engine Configuration nalysis Services Configuration				
eporting Services Configuration	Cross language installation	Passed		
ror and Usage Reporting	Existing dustered or duster-prepared instance	Passed		
nstallation Rules	Reporting Services Catalog Database File Existence	Passed		
eady to Install	Reporting Services Catalog Temporary Database File Existence	Passed		
stallation Progress	SQL Server 2005 Express tools	Passed		
Complete	Operating system supported for edition	Passed		
	FAT32 File System	Passed		
	SQL Server 2000 Analysis Services (64-bit) install action	Passed		
	Instance name	Passed		
	Previous releases of Microsoft Visual Studio 2008	Passed		

FIGURE 19: INSTALLATION RULES PASSED

On the Ready to Install screen, click Install.

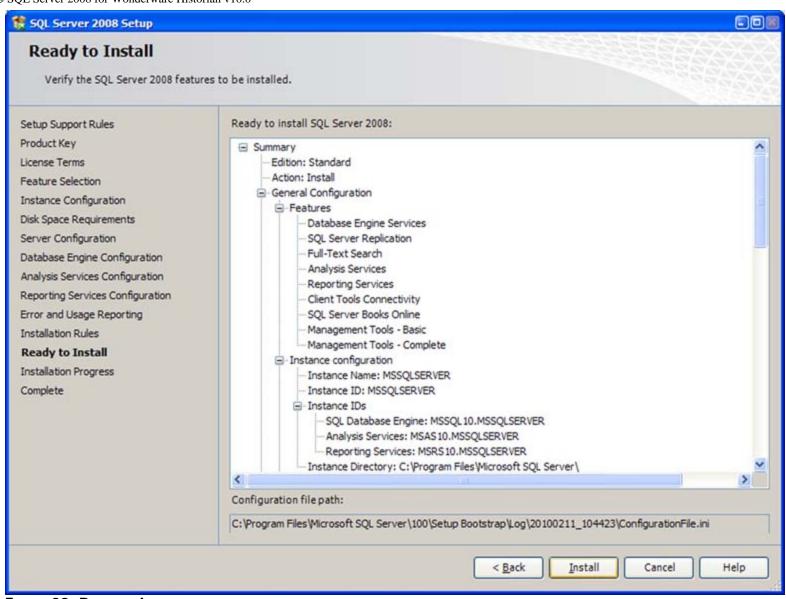


FIGURE 20: READY TO INSTALL

27. When the setup process completes, all of the feature installations in the Installation Progress screen should be successful (Figure 20 below).

🕃 SQL Server 2008 Setup		80
Installation Progress		
Setup Support Rules Product Key License Terms Feature Selection Instance Configuration Disk Space Requirements	Setup process complete Feature Name Database Engine Services	Status
Server Configuration Database Engine Configuration Analysis Services Configuration Reporting Services Configuration Error and Usage Reporting Installation Rules Ready to Install Installation Progress	 SQL Server Replication SQL Server Replication Full-Text Search Analysis Services Reporting Services Client Tools Connectivity Management Tools - Complete Management Tools - Basic 	Success
Complete	SQL Server Books Online	Success
		Next > Cancel Help

FIGURE 21: INSTALLATION PROGRESS SUCCESS

28. Click Next to finish the installation. When the installation completes, you should see the Complete screen (Figure 22 below).

SQL Server 2008 Setup		
Complete Your SQL Server 2008 installation completed successfully.		
Setup Support Rules Product Key License Terms Feature Selection Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Reporting Services Configuration Error and Usage Reporting Installation Rules	Summary log file has been saved to the following location: C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Log\20100211_104423 \Summary_briann1_20100211_104423.bt Information about the Setup operation or possible next steps: Your SQL Server 2008 installation completed successfully.	
Ready to Install Installation Progress	Supplemental Information:	
Complete	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, see the Microsoft Update Web site <http: ?linkid="108409" fwlink="" go.microsoft.com=""> at http://go.microsoft.com/fwlink/?LinkId=108409. Reporting Services The Reporting Services installation options that you specified in Setup determine whether additional configuration is required before you can access the report server. If you installed the default configuration, the report server</http:>	
	Close Help	

FIGURE 22: INSTALLATION COMPLETE

29. Install SQL Server 2008 SP1 from file SQLServer2008SP1-KB968369-x86-ENU.exe from the the SQL Server 2008 Service Pack 1 DVD.

B. Nguyen

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