Mise en place du moteur de Reporting de SQL Server 2008 avec une base sur SQL Server 2005

Introduction

Dans le cadre d'infrastructure d'entreprise, les nouvelles versions des logiciels ne sont pas forcément adoptées et installées tout de suite en production.

Ceci pour des raisons de validations internes, de support des anciennes applications ou encore le support des outils internes de gestion comme les sauvegardes.

C'est donc le cas précis pour la nouvelle version de SQL Server 2008 qui est encore en phase de validation chez de nombreux clients. Pourtant un de ses composants (SQL Server 2008 Reporting Services) apporte de réelles nouveautés qui justifie sa mise en place en interne :

- Nombreux graphiques DunDas intégrés nativement
- Editeur de rapports plus proche d'Office
- Export des rapports sous Word
- Tablix
- ...

La question est donc simple :

• Peut-on installer SQL Server 2008 Reporting Service sans installer le moteur relationnel ?

Cet article vous donnera la marche à suivre pour effectuer ce travail.

Installation du moteur

L'installation est assez standard et commence par le check des composants nécessaires (FrameWork 2.0, 3.0 et 3.5) avec les Services Pack associés.

Une fois ces pré-requis installés, on lance l'installer proprement dit.

On commence par sélectionner le composant unique qui nous intéresse :

• Reporting Services

Select the Enterprise features to clustered.	install. For clustered installations, only Database Engine Ser	vices and Analysis Services can be
Setup Support Rules Feature Selection Instance Configuration Disk Space Requirements Server Configuration Reporting Services Configuration Error and Usage Reporting Installation Rules Ready to Install Installation Progress Complete	Features: Instance Features Database Engine Services SQL Server Replication Full-Text Search Analysis Services Shared Features Business Intelligence Development Studio Client Tools Connectivity Integration Services Client Tools Backwards Compatibility Client Tools SDK SQL Server Books Online Management Tools - Basic Management Tools - Complete SQL Client Connectivity SDK Microsoft Sync Framework Redistributable Features	Description: Includes Reporting Services, a server-based application for creating, managing, and delivering reports in paper-oriented and interactive Web-based formats. Reporting Services cannot be clustered.
	Select All Unselect All Shared feature directory: C:\Program Files\Micr	rosoft SQL Server\

Puis on définit les paramètres pour l'instance et le répertoire d'installation

😵 SQL Server 2008 Setup Instance Configuration				an a	
Specify the name and instance ID for	the SQL Server instance.				
Setup Support Rules Feature Selection Instance Configuration Disk Space Requirements	Default instance Named instance:	MSSQLSERVI	ER		
Server Configuration Reporting Services Configuration Error and Usage Reporting Installation Rules	Instance <u>I</u> D: Instance <u>r</u> oot directory:	MSSQLSERVI	ER Files\Microsoft SQL Se	rver\	
Ready to Install Installation Progress Complete	Reporting Services direct Installed instances:	ctory: C:\Program Features	Files\Microsoft SQL Se	rver\MSR510.MS5QL:	SERVER
				1	
			< <u>B</u> ack	<u>N</u> ext >	Cancel Help

L'installer valide alors que les modules sélectionnés peuvent être installés dans le répertoire choisi (Taille disponible)

🎇 SQL Server 2008 Setup	
Disk Space Requiremen Review the disk space summary for	ts the SQL Server features you selected.
Setup Support Rules Feature Selection Instance Configuration Disk Space Requirements Server Configuration Error and Usage Reporting Installation Rules Ready to Install Installation Progress Complete	Disk Usage Summary: Image: System Drive (C: 229 MB required, 59786 MB available System Drive (C: 1): 135 MB required Image: System Drive (C: 1): 135 MB required Instance Directory (C: 1/Program Files (Microsoft SQL Server)): 90 MB required Shared Install Directory (C: 1/Program Files (Microsoft SQL Server)): 90 MB required Shared Install Directory (C: 1/Program Files (Microsoft SQL Server)): 4 MB required
	< <u>B</u> ack <u>N</u> ext > Cancel Help

On définit maintenant le compte de service qui sera utilisé par le moteur

🚼 SQL Server 2008 Setup				
Server Configuration		· · · · · · · · · · · · · · · · · · ·	of class and a set of a set of the set of the	
Specify the configuration			and the second se	
specify the configuration.				
Setup Support Rules	Service Accounts			
Feature Selection				
Instance Configuration	Microsoft recommends that you use	a separate account for eac	h SQL Server service.	
Disk Space Requirements	Service	Account Name	Password	Startup Type
Server Configuration	Sal Server Reporting Services	Hecodine Manio	••••••••••	Automatic
Reporting Services Configuration				Hatomatic
Error and Usage Reporting				
Installation Rules		Use	the same account for a	I SQL Server services
Ready to Install				
Installation Progress				
Complete				
complete				
		< Back	Next >	Cancel Help

On sélectionne alors le fait d'installer uniquement le moteur sans le configurer

Reporting Services Conf	
Specify the Reporting Services config	juration mode.
Setup Support Rules Feature Selection Instance Configuration Disk Space Requirements Server 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. Install, but do not gonfigure 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 <u>N</u> ext > Cancel Help

On sélectionne l'envoie des messages d'erreur chez Microsoft

🎲 SQL Server 2008 Setup		
Error and Usage Report	ing	
Help Microsoft improve SQL Server f	eatures and services.	
Setup Support Rules Feature Selection Instance Configuration Disk Space Requirements Server Configuration	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.	
Reporting Services Configuration	View the Microsoft policy for SQL Server privacy and data collection.	
Error and Usage Reporting	Read more about Microsoft Update and Automatic Update.	
Installation Rules Ready to Install Installation Progress Complete	 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	

Un ensemble de test s'effectue alors pour vérifier la compatibilité de la machine avec l'installation choisie

🚼 SQL Server 2008 Setup	••••••••••••••••••••••••••••••••••••••	
Setup is running rules to determin	f the installation process will be blocked. For more information, clic	k Help.
Setup Support Rules Feature Selection Instance Configuration Disk Space Requirements Server Configuration Reporting Services Configuration	Operation completed. Passed: 9. Failed 0. Warning 0. Skippe	ed 2. <u>R</u> e-run
Error and Usage Reporting Installation Rules Ready to Install Installation Progress Complete	Rule Same architecture installation Cross language installation Existing clustered or cluster-prepared instance Reporting Services Catalog Database File Existence Reporting Services Catalog Temporary Database File Existence SQL Server 2005 Express tools Operating system supported for edition FAT32 File System SQL Server 2000 Analysis Services (64-bit) install action Instance name Previous releases of Microsoft Visual Studio 2008	Status Passed Passed
	< <u>B</u> ack	Next > Cancel Help

Pour ensuite afficher un résumé de nos options d'installation, on peut alors cliquer sur « Install »



La copie des fichiers et l'installation réelle s'effectue alors

🎲 SQL Server 2008 Setup	
Installation Progress	
Setup Support Rules Feature Selection Instance Configuration Disk Space Requirements Server Configuration Error and Usage Reporting Installation Rules Ready to Install Installation Progress Complete	Performing Windows Installer actions. Install_sql_common_core_loc_Cpu32_1033_Action : RemoveSupportFiles_32. Removing temporary files
	Next > Cancel Help

Pour se terminer avec un message de succès

🎲 SQL Server 2008 Setup				
Installation Progress				
Setup Support Rules Feature Selection Instance Configuration Disk Space Requirements Server Configuration Error and Usage Reporting Installation Rules Ready to Install Installation Progress Complete	Setup process complete			
	Reporting Services	Success		
		Next > Cancel Help		

Et un écran final avec un lien vers le log d'installation

🊼 SQL Server 2008 Setup	
Complete Your SQL Server 2008 installation	completed successfully.
Setup Support Rules Feature Selection Instance Configuration Disk Space Requirements Server Configuration Reporting Services Configuration Error and Usage Reporting Installation Rules Ready to Install Installation Progress Complete	Summary log file has been saved to the following location: C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Log\20081007_171650 \Summary 20081007_171650.txt Information about the Setup operation or possible next steps: Vour SQL Server 2008 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, see the Microsoft Update Web site <http: ?linkid="108409" fwlink="" go.microsoft.com=""> at http://go.microsoft.com/fwlink/?LinkId=108409> at http://go.microsoft.com/fwlink/?</http:>

L'installation du moteur est donc maintenant terminée. Il nous faut donc paramétrer ce moteur pour fonctionner avec un moteur relationnel SQL Server 2005 sur une autre machine.

On trouve donc le moteur de Reporting dans la liste des services sur la machine

Services					
<u>File Action View H</u> elp					
⇔ → 💽 😭 🖸) 🗈 🛛 😫 🖬 🕒 🖛 🗉 🖦				
🆏 Services (Local)	Name \(\name \)	Description	Status	Startup 🔺	
	We Uninterruptible Power Supply	Manages a		Manual	
	Sector Contraction	Provides u		Disablec	
	Terminal Services Session Directory	Enables a		Disablec	
	🖏 Terminal Services	Allows user	Started	Manual	
	Sector Contract Contr	Enables a r		Disablec	
	🖏 Telephony	Provides T	Started	Manual —	
	TCP/IP NetBIOS Helper	Provides s	Started	Automal	
	🆏 Task Scheduler	Enables a	Started	Automal	
	System Event Notification	Monitors s	Started	Automal	
	SQL Server Reporting Services (MSSQLSERVER)	Manages,	Started	Automa	
	Special Administration Console Helper	Allows adm		Manual	
	🆏 Smart Card	Manages a		Manual	
	Shell Hardware Detection	Provides n	Started	Automal	
	🆏 ServeRAID Manager Agent	Monitors S	Started	Automal	
	ServeRAID FlashCopy Agent	ServeRAID	Started	Automal	
	Server 🖓	Supports fil	Started	Automal	
	Security Accounts Manager	The startu	Started	Automal	
	🖓 A Secondery Logon	Enables st	Startad	Automa -	
				<u> </u>	
	\Extended \Standard /				

Voyons donc comment paramétrer le moteur de rapports.

Paramétrage de SQL Server 2008 Reporting Services

Il faut lancer l'outil de configuration dans le menu Start > Program > SQL Server 2008 :

• Reporting Services Configuration Manager

Il faut dans un premier temps se connecter sur le serveur fraichement installé, puis on retrouve l'écran d'accueil

Reporting Services Configuration Man	ager: \MSSQLSERVER	
Microsoft SQL Server 2008 Reporting Serv	rices	
🛛 🛅 🛛 Reporting Services Confi	guration Manager	
Connect		
	Report Server Status	
MSSQLSERVER		
service Account	Use the Reporting Serv Manager. If you installe database, and the Report	rices Configuration Manager tool to define or modify settings for the Report Server and Report ed Reporting Services in files-only mode, you must configure the Web service URL, the ort Manager URL.
i Web Service URL	Current Report Server	
📋 Database	SQL Server Instance:	MSSQLSERVER
	Instance ID:	MSRS10.MSSQLSERVER
Report Manager URL	Edition:	ENTERPRISE EDITION
🔶 E avail Cattings	Product Version:	10.0.1600.22
E-mail Sectings	Report Server Database Name:	
Execution Account	Report Service Status:	Started
R Encryption Keys		Etart Stop
📩 Scale-out Deployment		
	D 1	
	Hesuits	
0		Apply Exit

On définit le compte de service pour le moteur de rapport (pré-rempli normalement), puis on valide l'URL du Web Service an définissant l'IP, le port, le virtual directory, ... et en cliquant sur Apply

Reporting Services Configuration Ma	nager: \MSSQLSERVER		_ 0 ×
Microsoft SQL Server 2008 Reporting Se	rvixes Restance Managers		
Reporting Services Con	nguration Manager		
Connect			
a Mechi conuen	Web Service URL		
JOSUSCHER	Configure a URL uz	sed to access the Report Server. Click Advanced to define multiple URI city additional parameters on the URL.	s for a single Report Server
Service Account			
2 Web Service URL	Report Server Web Serv	rvice is not configured. Default values have been provided to you. To a else change them and then press Apply.	ccept these defaults simply
🗍 Database	Report Server Web Service V Virtual Directory:	ReportServer	
Report Manager URL	Report Server Web Service S	te identification	
🚖 E-mail Settings	IP Address:	All Assigned (Recommended)	
Evention Arrowst	<u>I</u> OP Port: SSL Certificate:	80 (Not Selected)	
	SSL Port:		Advanced
Keys	-Report Server Web Service II	DI <	
🐴 Scale-out Deployment	URLs:	http:// ReportServer	
	Results		
8			Apply Exit

On va ensuite dans le paramétrage de la base de données



On clique sur « Change Database » afin de définir la base de données, ce qui lance un assistant

Report Server Database Configuration Wizard

Change Database		
Choose whether to create or	configure a report server database.	
Action	Select one of the following options to create an empty report server database or select	
Database Server	an existing report server database that has content you want to use.	
Database		
Credentials	Select a task from the following list:	
Summary		
Progress and Finish	 Create a new report server database. C Choose an existing report server database. 	
0	Previous <u>N</u> ext <u>Cancel</u>	

On fournit les renseignements pour accéder à notre serveur SQL Server 2005

Report Server Database Conf	iguration Wizard X
Change Database	
Choose whether to create or c	onfigure a report server database.
Action	Choose a local or remote instance of a SQL Server Database Engine and specify
Database Server	credentials that have permission to connect to that server.
Database	
Credentials	Connect to the Database Server:
Summary	Server Name:
Progress and Finish	
	Authentication Type: Current User - Integrated Security
	Username:
	Pass <u>w</u> ord:
	<u>T</u> est Connection
	<u>Previous N</u> ext <u>C</u> ancel

×

Puis le nom de la base de données à créer (avec le mode et la langue)

Report Server Database Configuration Wizard		
Change Database		
Choose whether to create or c	onfigure a report server database.	
Action	Enter a database name, select t	he language to use for running SQL scripts, and specify
Database Server	whether to create the database i	n native of SharePoint mode.
Database		
Credentials	Database Name:	ReportServer
Summary	Temp Database Name:	_ReportServerTemp
Progress and Finish	Language:	English (United States)
	Report Server Mode:	Native Mode
		C SharePoint Integrated Mode
	1	
		Draviana Nant Coursel
		revious <u>N</u> ext Lancel

On donne les renseignements pour l'accès du service à la base de données

Report Server Database Configuration Wizard 🛛 🛛 🗙		
Change Database		
Choose whether to create or	configure a report server database.	
Action	Specify the credentials of an existing account that the report server will use to connect to	
Database Server	the report server database. Permission to access the report server database will be automatically granted to the account you specify.	
Database		
Credentials		
Summary	Credentials:	
Progress and Finish		
	Authentication Type: Service Credentials	
	User name:	
	Password:	
0	Previous <u>N</u> ext <u>C</u> ancel	

Un résumé apparaît alors avant d'exécuter la création

Report Server Database Coni	iguration Wizard	×
Change Database		
Choose whether to create or c	onfigure a report server database.	
Action	The following information will be used to creat	e a new report server database. Verify this
Database Server	information is correct before you continue.	
Database		
Credentials	SQL Server Instance:	Descriftenses
Summary	Temp Database:	_heportServer ReportServerTempDB
Progress and Finish	Report Server Language:	English (United States)
	Report Server Mode:	Native
	Authentication Type:	Service Account
	Username: Password:	******
0	Pres	vious <u>N</u> ext <u>C</u> ancel

La création se fait enfin et fournit un statut

Change Database		
Choose whether to create	or configure a report server database.	
Action	Please wait while the Report Server Database	Configuration wizard configures the
Database Server	database. This might take several minutes to c	complete.
Database		
Credentials		
Summary		
Progress and Finish		
-	Verifying database sku	Success
	Generating database script	Success
	Running database script	Success
	Generating rights scripts	Success
	Applying connection rights	Success
	Setting DSN	Success
_		
	Provi	ious Einish Cancel

On retourne alors dans l'assistant et clique sur Apply

Reporting Services Configuration	n Manager: MSSQLSERVER
Microsoft SQL Server 2008 Reporti	ing Services
Reporting Services C	Configuration Manager
Connect	Depart Convex Database
	Report Server Database
MSSQLSERVER	
_	Reporting Services stores all report server content and application data in a database. Use this name to create or change the report server database or undate database connection credentials
🛃 Service Account	
🔊 Web Service URL	Current Report Server Database
_	Click Change database to select a different database or create a new database in native or SharePoint integrated
📋 Database	mode.
	SQL Server Name:
🎯 Report Manager URL	Database Name: ReportServer
	Report Server Mode: Native
🚖 E-mail Settings	Change <u>D</u> atabase
Kecution Account	Current Report Server Database Credential
	The following credentials are used by the report server to connect to the report server database. Use the options
R Encryption Keys	below to choose a different account or update a password.
	Credential: Service Account
📩 Scale-out Deployment	Login:
	Password: ********
	Change Credentials
	Besults
	Apply Exit

On termine par la définition du virtual directory du portail de rapport

Reporting Services Configuration Man	ager:?\MSSQLSERVER 🗖 🗙
Microsoft SQL Server 2008 Reporting Ser Reporting Services Conf	vices iguration Manager
Connect MSSQLSERVER Service Account Web Service URL Database Report Manager URL E-mail Settings E-mail Settings Execution Account Recryption Keys Cale-out Deployment	Report Manager URL Configure a URL to access Report Manager. Click Advanced to define multiple URLs, or to specify additional parameters on the URL. Image: The Report Manager virtual directory name is not configured. To configure the directory, enter a name or use the default value that is provided, and then click Apply. Report Manager Site Identification Yirtual Directory: Reports URLs: http:// Http:// :80/Reports Advanced
@	<u>Apply</u> <u>Exit</u>

Ainsi que les renseignements standards (SMPTP Server, ...).

Conclusion

Le serveur devient dès lors fonctionnel et il ne vous reste plus qu'à y poster vos rapports.

Romelard Fabrice [MVP]