



#### Administration

SQL Server 2012 Installation

- SQL Server 2012 s'installe sur
  - Windows Server 2012 R2
  - Pour le cours l'idéal est de créer une machine virtuelle sous VMWare et d'y installer
    - Windows Server 2012 R2

<u>http://technet.microsoft.com/fr-fr/bb403698</u>
 – Clic sur Windows Server 2012 R2

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• Téléchargez la version qui vous intéresse





- Déroulement de l'installation
  - Le processus d'installation commence par valider la plateforme sur laquelle doit être installer le moteur SQL Serveur
    - Version du système d'exploitation
    - Installation en mode administrateur
    - Validation des clés de registre
    - .
  - Choix des composants
    - Après la vérification des pre-requis vous devez sélectionner les composants que vous désirez installer
      - Choix du moteur et/ou Choix des outils



- Nom de l'instance
  - A l'installation MS SQL Server offre la possibilité d'installer une ou plusieurs instances, chaque instance est indépendante l'une de l'autre
  - Si le nom de la première instance n'est pas précisé, alors le nom de l'instance correspond au nom du serveur Windows par défaut
    - Les autres portent obligatoirement des noms définis par l'administrateur
  - Le nom de l'instance respecte les règles suivantes
    - Maximum 16 caractères
    - Respecte la casse
    - Ne peut pas contenir les mots DEFAULT et MSSQLSERVER ainsi que @,\,&, « ' »
  - Après le choix du nom de l'instance le processus d'installation vérifie la capacité disque et mémoire vive



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Marcent Places	🎉 resources	02/06/2015 15:52	File folder						
🗃 Libraries	퉬 StreamInsight	02/06/2015 15:52	File folder						
Documents	🌲 Tools	02/06/2015 15:52	File folder						
🎝 Music	🍶 ×64	02/06/2015 15:56	File folder						
Pictures	🍌 ×86	02/06/2015 15:59	File folder						
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G (G:)						Program par	me: SOLS	ierver 2012	
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- Exemple d'une installation Enterprise Core
- Doucle clic sur Setup.exe pour lancer l'installation en tant qu'administrateur Windows



Planning Installation Maintenance Tools Resources Advanced	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.           Image: SQL Server 2012 instance           Image: SQL Server 2012 instance
Options	Add node to a SQL Server failover cluster         Launch a wizard to add a node to an existing SQL         Server 2012 failover cluster.         Image: SQL Server 2008 SQL Server 2008, SQL Server 2008 or         SQL Server 2008 R2         Launch a wizard to upgrade SQL Server 2005, SQL Server 2008, SQL Server 2008 or         SQL Server 2008 or SQL Server 2008 R2 to SQL Server 2012.

 Sur la partie de gauche, on clique sur « Installation » et on choisit nouvelle installation « New SQL Server Stand-alone installation... »



etup Support Rules	Operation completed. Passed: 8. Failed 0. Warning 0. Skipped 0.	
	Hide details <<	Re-run
	View detailed report	<u></u>
	Rule	Status
	Setup administrator	Passed
	Setup account privileges	Passed
	Restart computer	Passed
	Windows Management Instrumentation (WMI) service	Passed
	Consistency validation for SQL Server registry keys	Passed
	Long path names to files on SQL Server installation media	Passed
	SQL Server Setup Product Incompatibility	Passed
	.NET 2.0 and .NET 3.5 Service Pack 1 update for Windows 2008 R2	Passed

- La fenêtre de « Setup Support Rules » s'exécute
  - Vérifications SQL Server
- A la fin de le vérification on clique sur « show details »
  - La fenêtre ci-dessus s'affiche
  - S'il n'y a pas d'erreur, on clique sur OK



🚼 SQL Server 2012 Setup		
Product Key		
Specify the edition of SQL Se	rver 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 Fosk Counsented in SQL Server Fosk Counsent of a statuated with a 180-day expiration. To upgrade from one edition to another, run the Edition Upgrade Wizard.         C       Specify a free edition:         Evaluation       Image: Server Subscription (SQL Server Fosk Counsent)         C       Enter the product key:         [FH666-Y346V-7XFQ3-V693M-RHW28]	*
	< Back Next > Canc	el

- On renseigne la clé correspondant au numéro de licence
- Puis Next



🎇 SQL Server 2012 Setup	
License Terms To install SQL Server 2012	, you must accept the Microsoft Software License Terms.
Product Key License Terms Product Updates Install Setup Files	MICROSOFT SOFTWARE LICENSE TERMS  MICROSOFT SQL SERVER 2012 ENTERPRISE CORE  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.
	< Back Next > Cancel

- Le détail du type de licence apparait
- On coche « I accept the licence terms »,
- puis next



Setup Support Rules identify	roblems that might occur when you install SQL Server Setup support files. Failure	es must be c	🚼 SQL Server 2012 Setup	
berore Setup can continue. 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.         Hide details <         View detailed report         Rule         Previous releases of SQL Server 2008 Business Intelligence Develop         No SxS Install with SQL Server "Denal" CTPO         Consistency validation for SQL Server registry keys         Computer domain controller         Microsoft. MET Application Security         Edition WOW64 platform         Windows Firewall	Status Passed Next >	Setup Role Click the SQL Server Feature I install a specific configuration. Setup Support Rules Setup Role Feature Selection Installation Rules Disk Space Requirements Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Installation option to individually select which feature components to install, or click a feature role to

- Vérification de l'installation par rapport à la licence
- Puis Next
- Puis nouvelle installation « SQL Server Feature Installation »,
- puis Next





- La fenêtre de choix des outils apparait (ci-dessus)
  - Par défaut tout est coché
  - OU on clique sur « Select all »,



Select the Enterprise Edition: Co	re-based Licensing features to install.	
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Analysis Services Configuration Distributed Replay Controller Distributed Replay Controller Distributed Replay Controller Distributed Replay Controller Installation Configuration Rules Ready to Install Installation Progress Complete	Features:         Instance Features         Ø Database Engine Services         Ø SQL Server Replication         Ø Data Quality Services         Ø Data Quality Services         Ø Reporting Services - Native         Shared Features         Ø Reporting Services - SharePoint         Ø Data Quality Client         Ø SQL Server Data Tools         Ø Client Tools Connectivity         Ø Integration Services         Ø Client Tools SDK         Ø Documentation Components         Ø Management Tools - Complete         Ø Distributed Replay Controller         Ø Select All         Unselect All         Shared feature directory:	Feature description: The configuration and operation of each instance feature of a SQL Server instance is isolated from other SQL Server instances. SQL Server instance can operate side-by-side on the same computer.  Prerequisites for selected features: Already installed: Windows PowerShell 2.0 Microsoft .NET Framework 3.5 To be installed from media: Microsoft Visual Studio 2010 Shell Microsoft Visual Studio Tools for Applica

- On vérifie les directories d'installation pour chaque composant,
  - On sélectionne le composant coché et on valide le chemin affiché en bas de la fenêtre
  - Pour chaque composant sélectionné



Setup Support Rules	Operation completed, Passed: 2. Failed 0. Warning 0. Skipped 0.	
Setup Role		
reature selection	Hide details <<	Re-ru
Instance Configuration	View detailed report	
Disk Space Requirements		
Server Configuration	Rule	Status
Database Engine Configuration	Prior Visual Studio 2010 instances requiring update.	Passed
Analysis Services Configuration	Microsoft .NET Framework 3.5 Service Pack 1 is required	Passed
Reporting Services Configuration		
Distributed Replay Controller		
Distributed Replay Client		
Error Reporting		
Installation Configuration Rules		
Ready to Install		
Installation Progress		
Complete		

- Vérification de certains composants comme ci-dessus Visual Studio
- Puis Next



Instance Configuratio	'n				
Specify the name and instance I	D for the instance of SQL Si	erver. Instance ID b	ecomes part of the inst	allation path.	
etup Support Rules	C Default instance				
etup Role eature Selection	Named instance:	SYNC_PROD	í.		
stallation Rules					
nstance Configuration	Instance ID:	SYNC PROD	h.		
sk space Requirements erver Configuration	Instance root directory:	Di Program	Files\Microsoft SQL Serv	ver),	
atabase Engine Configuration	-				
nalysis Services Configuration eporting Services Configuration	SQL Server directory: Analysis Services dearts	D:\Program I	Nes\Microsoft SQL Sen	ver(MSSQL11.SYNC_PRO	x0
istributed Replay Controller	Reporting Services direct	tory: D:\Program I	Ries Microsoft SQL Serv	WWSRS11.SYNC_PROC	5
istributed Replay Client mor Reporting	Installed instances:				
stallation Configuration Rules	Instance Name	Instance ID	Features	Edition	Version
eady to Instal situation Progress					
omplete					
	12				

- On renseigne le nom de l'instance
  - C'est mieux
- on modifie les directories des objets de l'instance à créer (encadré en rouge)
- Next



ents
ior the SQL Server features you selected.
Disk Usage Summary: P P Drive C: 3884 MB required, 16938 MB available System Drive (C:\): 3884 MB required Drive D: 3936 MB required, 30626 MB available Shared Install Directory (D:\Program Files\Microsoft SQL Server\): 1642 MB required Instance Directory (D:\Program Files\Microsoft SQL Server\): 2294 MB required Instance Directory (D:\Program Files\Microsoft SQL Server\): 2294 MB required

- L'installeur SQL Server vérifie l'espace disque disponible
- Next



ietup Support Rules ietup Role	Service Accounts Collation			
eature Selection	Microsoft recommends that you use a sepa	arate account for each SQL Server service	Decemord	Startup Type
nstance Configuration	SQL Server Agent	NT Service) SOLAgent\$SYNC_PROD	Passworu	Manual -
isk Space Requirements	SOL Server Database Engine	NT Service\MSSOL\$SYNC_PROD		Automatic 💌
erver Configuration	SOL Server Analysis Services	NT Service\MSOLAP\$SYNC_PROD		Automatic 💌
Database Engine Configuration Analysis Services Configuration	SQL Server Reporting Services	NT Service\ReportServer\$SYNC_PROD		Automatic 👻
	SQL Server Integration Services 11.0	NT Service\MsDtsServer110		Automatic 👻
leporting Services Configuration	SQL Server Distributed Replay Client	NT Service\SQL Server Distributed R		Manual 🗸
Distributed Replay Controller	SQL Server Distributed Replay Controller	NT Service\SQL Server Distributed R		Manual 🗸
istributed Replay Client	SQL Full-text Filter Daemon Launcher	NT Service\MSSQLFDLauncher\$SYNC		Manual
ntor Reporting	SQL Server Browser	NT AUTHORITY\LOCAL SERVICE		Automatic 💌
leady to Install nstallation Progress Complete				

 Dans le 1<sup>er</sup> onglet on liste les services Windows qui seront créés



	State Server 2012 Sellus				
	Server Configuration	n and collation configuration.			
	Setup Support Rules	Service Accounts Collation	-	1	
Contornate the SQL Series Select the collation you will Collation designators Brany Conservation Receives sensitive Conservation of Receive SQL collection, used In Conservation of Receive SQL collection, CHERO SQL Although CHERO Sale Soll Chero of High	In 2012 Dotabase Ingine Collate Cold like to use:   grator and sort order	en die verscheren die fer Unsecher Dies, 500.	re, kanatype roomstive, veidti-inconstive re, kanatype inconstive, veidti-inconstive 	Currents Configuration Distributed Replay Clerk Borter Configuration Setup Support Rules Setup Support Rules Instance Configuration Reporting Services Configuration Reporting Services Configuration Distributed Replay Clerk Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	t collation configuration.  Service Accounts Collation Database Engine: Latini -General_CLAS
					<pre></pre>

- Dans le 2eme onglet, choisir le jeu de caractères de l'instance
  - Qui sera le jeu de caractère par défaut des bases de données, puis OK
  - On vérifie que les 2 lignes sont bien renseignées
  - Next



Specify Database Engine authent	ration security mode, administrat	tors and data directories.		
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration <b>Database Engine Configuration</b> <b>Database Engine Configuration</b> <b>Database Engine Configuration</b> Distributed Replay Controller Distributed Replay Controller Distributed Replay Controller Distributed Replay Controller Beror Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Server Configuration Data 1 Specify the authentication Authentication Mode C Windows authentication Mixed Mode (SQL Serve Specify the password for th Enter password: Confirm password: Specify SQL Server adminis Add Current User Ad	Directories FILESTREAM  mode and administrators for the mode a mode a authentication and Windows au he SQL Server system administrat	Database Engine. thentication) tor (sa) account.	SQL Server administrators have unrestricted access to the Database Engine.

- Dans l'onglet « Server Configuration » on renseigne les mots de passe
  - Choisir l'authentification mixte
  - Et donner un mot de passe au compte « sa »
    - sa = (system administrator des bases SQL)



			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Setup Support Rules Setup Role Peature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Database Engine Configuration Analysis Services Configuration Deporting Services Configuration Distributed Replay Controller Distributed Replay Controller Distributed Replay Client 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 database log directory: Temp DB directory: Temp DB log directory: Backup directory:	ectories FILESTREAM  D:[Program Files/Microsoft SQL Server] D:[Program Files/Microsoft SQL Server] SQL[Data F:[MSSQL]Data F:[MSSQL]Data D:[Program Files]Microsoft SQL Server]MSSQL11.SYNC_PROD[MSSQL]Data D:[Program Files]Microsoft SQL Server]MSSQL11.SYNC_PROD[MSSQL]Data G:[MSSQL]Backup	

- Dans l'onglet « Data Directories »
  - on renseigne les chemins demandés
  - L'onglet « Files stream » propose un « volume group » distant sur la baie de disques pour une gestion des fichiers gérés par SQL Server
    - Les « volume groups » seront visibles dans l'explorateur Windows



Specify Analysis Services server	modes, administrators, and data directories.	
etup Support Rules etup Role esture Selection stallation Rules istance Configuration isik Space Requirements erver Configuration atabase Engine Configuration inalysis Services Configuration istributed Replay Controller istributed Replay Client roro Reporting stallation Configuration Rules eady to Install installation Progress omplete	Server Configuration Data Directories	ervices. Analysis Services administrators have unrestricted access to Analysis Services.
	Add Current User Add Remove	I

- Dans l'onglet « Server Configuration »,
  - comme on a choisi toutes les options, SQL nous demande un compte administrateur du Data Mining
  - Laisser le compte proposé par défaut (administrateur qui installe)
- Dans l'onglet « Data Directories », ne rien changer
- Next





- On choisit l'option « install only », pour ne pas le configurer tout de suite
  - SQL crée alors 2 bases utilisateurs supplémentaires (ReportServer et ReportServerTempDB)
- Next



Setun Sunnort Rules	Specify which users have permissions for the Distributed Replay C	Controller service.
ietup Role ieature Selection nstallation Rules nstance Configuration Disk Space Requirements ierver Configuration Natabase Engine Configuration Natabase Engine Configuration Avalaysis Services Configuration Reporting Services Configuration Distributed Replay Client irror Reporting nstallation Configuration Rules Ready to Install nstallation Progress Complete	ISSREGION(xroch.kouakam (Kouakam, xRoch)	Users that have been granted permissi will have unlimited access to the Distributed Replay Controller service.
	Add Current User Add Remove	· · · · · · · · · · · · · · · · · · ·

- Choisir le compte qui va gérer les services Windows
  - Il relance les services qui tombent
  - On ajoute un login,
- puis on clique sur next



SQL Server 2012 Setup Distributed Replay Cli	ent									3.8					
Specify the corresponding contro	iller and data directories f	for t	the Dist	tributed R	Replay C	Ilient.									
Setup Support Rules Setup Role Feature Selection Installation Rules Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Analysis Services Configuration Distributed Replay Controller <b>Distributed Replay Controller</b> <b>Distributed Replay Controller</b>	Specify controller ma Controller Name: Working Directory: Result Directory:	nachir p p	ine nam SYNC_PI D:\Progr D:\Progr	e and dir ROD_CTL ram Files ram Files	rectory      (x86) M (x86) M	icrosoft icrosoft	15 SQL 5:	ierver\ ierver\	DRepla DRepla	ayClient	\Work	ingDir\ ItDir\			•
									<	Back		Next >	Cancel	Help	

- Saisir le nom du contrôleur et ses chemins de travail
- Next



Help Microsoft improve SQL Server Fea	atures and services. 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 Lindate settings.
Setup Support Rules S	Specify the information that you would like to automatically send to Microsoft to improve future releases of SQL Server. These
Setup Role to	settings are optional. Microsoft treats this information as confidential. Microsoft may provide updates through Microsoft Update
Feature Selection yr	to modify feature usage data. These updates might be downloaded and installed on your machine automatically, depending on
Installation Rules	your Automatic Undate settings.
Instance Configuration S	See the Microsoft SQL Server 2012 Privacy Statement for more information.
Disk Space Requirements S	Read more about Microsoft Update and Automatic Update.
Server Configuration R	Send Windows and SQL Server Error Reports to Microsoft or your corporate report server. This setting only applies to
Database Engine Configuration Analysis Services Configuration Distributed Replay Controller Distributed Replay Controller Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	services that run without user interaction.

- Affiche une fenêtre de gestion des erreurs de Reporting
  - Ne rien cocher pour ne rien envoyer à Microsoft
- Next



etun Support Pules	Operation completed Dassed: 7 Failed 0. Warning 0. Skinned 0.		
etun Role			
eature Selection			
nstallation Rules	Hide details <<		Re-run
nstance Configuration	View detailed report		·
isk Space Requirements			
erver Configuration	Rule	Status	
atabase Engine Configuration	FAT32 File System	Passed	
nalysis Services Configuration	Existing clustered or cluster-prepared instance	Passed	
eporting Services Configuration	Cross language installation	Passed	
istributed Replay Controller	Same architecture installation	Passed	
istributed Replay Client	Reporting Services Catalog Database File Existence	Passed	
rror Reporting	Reporting Services Catalog Temporary Database File Existence	Passed	
eady to Tostall	SOL Server Analysis Services Server Mode and Edition Check	Passed	
stallation Progress		10000	
omplete			
mpieco			

• Dernière vérification des tous les renseignements saisis



SQL Server 2012 Setup Ready to Install Verify the SQL Server 2012 feat	ures to be installed.		
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Reporting Services Configuration Distributed Replay Controller Distributed Replay Controller Distributed Replay Client Error Reporting Installation Configuration Rules <b>Ready to Install</b> Installation Progress Complete	Ready to install SQL Server 2012:         Summary         Edition: Enterprise Edition: Core-based Licensing         - Action: Install (Product Update)         Prerequisites         - Already installed:         - Microsoft .NET Framework 3.5         - To be installed from media:         - Microsoft Visual Studio 2010 Shell         - Microsoft Visual Studio Tools for Applications 3.0         - General Configuration         - Features         - Database Engine Services         - SQL Server Replication         - Full-Text and Semantic Extractions for Search         - Data         - Data Services         - Analysis Services         - Reporting Services - Native	Setup State Conference      Setup State      Setup S	Instal Dottet Core, Cpu64 Action
Complete	Reporting Services - SharePoint     Reporting Services - SharePoint     Reporting Services Add-in for SharePoint Products     Data Quality Client     SQL Server Data Tools     Configuration file path:     C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20150602_160217\ConfigurationFile.ini        C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20150602_160217\ConfigurationFile.ini        Casek	Analysis Services Configuration Reporting Services Configuration Distributed Report Configuration Distributed Report Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	

- Affiche une page de résumé de toutes les options choisies
- Puis, Install



👫 SQL Server 2012 Setup		_ [ ] ]
Complete		
Your SQL Server 2012 installati	on completed successfully with product updates.	
Setup Support Rules	Information about the Setup operation or possible nex	it steps:
Secup Role	Feature	Status
Feature Selection	Management Tools - Complete	Succeeded
Installation Rules	Client Tools Connectivity	Succeeded
Instance Configuration	Client Tools SDK	Succeeded
Disk Space Requirements	Client Tools Backwards Compatibility	Succeeded
Server Configuration	Management Tools - Basic	Succeeded
Database Engine Configuration	Computer restart required	×
Analysis Services Configuration	Construction of the base of th	
Reporting Services Configuration	One or more arrected riles have operations pend process is completed.	ding. You must restart your computer after the setup
Distributed Replay Controller		
Distributed Replay Client		
Error Reporting	<b>b</b>	OK
Installation Configuration Rules		
Ready to Install	Only the components that you use to view an	nd manage the documentation for SQL Server have been —
Testellettes Deserves	Installed. By default, the Help Viewer compor	nent uses the online library. After installing SQL Server, you
Installation Progress	information, see Use Microsoft Books Online	for SQL Server chttp://go.microcoft.com/fwlink/2LinkID=
Complete	224683> (http://go.microsoft.com/fwlink/21.inl	kiD=224683)
	LEADER (http://go.nicrosoft.com/miniter.com	<u>no 224000</u> ).
	Microsoft Update	
	Summary log file has been saved to the following loca	tion:
	CUProgram Eiler/Microsoft SOL Server/110/Setup Ro	otetrapli op)20150602_160217
	Summary ISSERVDBVALE107_20150602_160217.txt	
		du. 1
		CloseHelp

- En fin d'installation
- Vérifier que tous les statuts sont « Succeeded »
  - Le message affiché ne doit concerner que l'installation de la documentation (normal car on n'a pas connecté le serveur à internet pendant l'installation)
  - Puis Close



- Fin d'installation
  - Ne pas oublier de rebooter le server Windows
    - Permet de stabiliser tous les services SQL créés
- Les bases Exemples SQL
  - Par défaut et pour la sécurité des serveurs de production aucune base exemple n'est installée sur ces serveurs
  - Des exemples de codes et de bases de données sont fournis par Microsoft et disponible sur « codeplex »
  - Les bases exemples sont :
    - AdventureWorks base OLTP (Online Transactional Processing)
    - AdventureWorksDW base datawarehouse

- Gestion du processus SQL Server
  - Pour le système d'exploitation chaque application s exécute sous forme de processus
  - Chaque processus dispose de ses propres threads
  - Chaque thread correspond à une unité de travail que le système d'exploitation doit soumettre au processeur
    - A un processus correspond toujours au moins un thread
  - Chaque instance SQL Server gère elle-même ses propres threads et gère leur synchronisation sans passer par le noyau Windows

- Gestion du processus SQL Server (suite)
  - L'objectif de SQL Server est de répondre à des demande de montées en charge efficacement
    - C'est pour cette raison qu'il gère son propre pool de thread
    - Paramètre : MAX WORKER THREAD (valeur par défaut 0) correspond au nombre maximum de threads,
      - la valeur 0 permet la gestion automatique des threads par SQL Server, recommandée
      - Valeur maximum à 255 sous SQL Server 2000
    - Ces threads correspondent aux requêtes utilisateurs
      - Un même thread sera partagé entre plusieurs utilisateurs
      - Un utilisateurs ne travaillant pas à 100% de son temps, les thread est utilisé lorsqu'il lance une requête

- Options de configuration
  - les options de configuration du serveur SQL sont visibles dans la vue
    - Sys.configurations
  - Contient les colonnes :
    - Name nom de l'option
    - Value valeur actuelle configurée, cette valeur sera prise en compte au prochain démarrage de l'instance
    - Value\_in\_use valeur en cours d'utilisation



- Gestion de la mémoire
  - Par défaut SQL Server gère dynamiquement la quantité de mémoire dont il a besoin
    - Permet une répartition optimale de la mémoire entre les différents processus
    - Une quantité de mémoire suffisante permet de favoriser les lectures logiques à la place des lectures physiques pénalisantes
  - Cette gestion dynamique peut être limitée par les paramètres MIN SERVER MEMORY et MAX SERVER MEMORY
    - Dans ce cas l'instance conservera toujours la quantité de mémoire spécifie par ces 2 paramètres. Elle n'ira jamais ni en dessous ni au dessus.



- Vérifier l'installation
  - Vérifiez le démarrage des services Windows
  - Par l'intermédiaire de l'explorateur vérifiez (pour une installation par défaut) :
    - C:\Program Files\Microsoft SQL Server\xxx. pour la gestion du moteur
      - xxx prend la valeur 90, 100, 110, etc
    - C:\Program Files\Microsoft SQL Server\MSSQL10.MSSQLSERVER\MSSQL\DATA pour les données
    - C:\Program Files\Microsoft SQL Server\xxx\setup Boostrap\LOG contient le journal d'installation
      - fichier généré par chaque exécution du programme d'installation (renommé avec horodatage)
      - On conserve une trace de chaque installation

#### Exercice

• Installer SQL Serveur sur une machine virtuelle avec Windows Server 2012

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