

Nastavenie zálohovania

Obnova zálohy

Spôsob kontroly - chyby

Nastavenie zálohovania

Nižšie je odkomunikovaný doporučovaný postup nastavenia zálohovania databáz v MS SQL 2008 Standarda následnej kontroly vykonania zálohy cez funkciu sledovanie zmien súborov (Watch Dog files).

Pre staršie SQL servery (2000 a 2005) doporučujeme komprimáciu záloh realizovať

synchronizovaným spúšťaním C-Backup, ktorý súčasne zabezpečí aj rotáciu záloh, nakoľko tieto staršie systémy nemajú vstavanú komprimáciu záloh. Export databázy v Management Studio zvoľte, aby sa stará záloha vždy prepísala novou.

Postup nastavenie zálohovania pre SQL server 2008:

Ako prvé si spustíte program SQL Server Management Studio.



Pripojíte sa na SQL server, ktorý chcete zálohovať.



Záloha MS SQL standard Zverejnené na Customer Monitor (https://www.customermonitor.sk)

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Obrázok: Prihlásenie na SQL server zadaním názvu servera v prípade lokálneho pripojenia pod Správcovským kontom môžete nastaviť spôsob autentifikácie cez windows authentification

Vytvoríte nový údržbový plán, postup je znázornený na nasleedujúcom obrázku.



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Obrázok: Pridanie nového plánu do záložky Maintenance Plans

Zvolíte si názov plánu.



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Obrázok: Zvolíte si názov plánu

Z ponuky Maintenance Plan Task vyberiete Back up Database Task - nastavenie zálohovania a Maintenance Cleanup Task - pre automatické vymazávanie starých záloh.



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Obrázok: V tomto kroku si pridáte do plánu úlohu na vytváranie záloh a úlohu na automatické zmazávanie starých záloh

Pre tieto úlohy je možné nastaviť reťazenie, na obrázku je znázornený stav, keď sa ako prvé spustí zálohovanie a po jeho skončení sa spustí úloha na odstraňovanie starých záloh.



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Data Collection				
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Digi Shrink Database Task	<u> </u>			
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Obrázok: Medzi jednotlivými úlohami v pláne sa dá nastaviť retazenie tzn. postupnosť spôšťania úloh

Po kliknutí pravým tlačidlom myši na jednotlivé úlohy môžete vstúpiť do nastavení úlohy.



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Obrázok: Pre nastavenie parametrov zálohovania kliknete na zálohovaciu úlohu pravým tlačidlom myši a zvolíte Edit

V časti Database(s) si zvolíte, ktoré databázy chcete zálohovať.



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145 Rebuild Index Task	Backup file extension:	OK Cancel	
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	Set backup compression:	Ise the default server setting	
	1		
		OK Cancel ViewT-SQL Help	

Obrázok: Nastavenie zálohovania - výber databáz na zálohovanie

Zadáte si miesto pre ukladanie záloh a tak isto nastavíte aby sa zálohy vytvárali s kompresiou.



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Obrázok: Nastavenie zálohovania - výber miesta pre uloženie záloh + výber z možností zálohovať s alebo bez kompresie



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Možnosť venifikovať	Backup file extension:			
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C. Shrink Database Task	Verify backup integrity		Nastavenie záloh s	•
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	Back up the tail of the lo	g, and leave the database in the restoring state		
	Set backup compression:	Compress backup	×	
	\rightarrow	OK Cancel View T-SQL	Help //	8

Obrázok: Nastavenie zálohovania - označenie možnosti pre verifikáciu záloh

Rovnakým spôsobom sa dostanete do nastavení úlohy na vymazávanie starých záloh.



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A Notify Operator Task motions of Edit nastavite
The Rebuild Index Task Cleanup Database Badup files
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Obrázok: Nastavenie úlohy pre automatické vymazávanie starých záloh

Zvolíte si typ súborov, ktoré sa budú vymazávať, zvolíte miesto, kde sú uložené a nakoniec si nastavíte ako staré zálohy sa automaticky vymažú v našom prípade staršie ako 4 týždne.



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🍢 Microsoft SQL Server Management Stud	
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Obrázok: Nastavenie úlohy pre automatické vymazávanie starých záloh

Po dokončení všetkých nastavení uložíte zmeny.



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Obrázok: Zálohovanie a automatické mazanie starých záloh je nastavené, kliknite na tlačidlo uložiť

Obnova zálohy

Obnova zálohy sa robí tak isto cez Microsoft SQL Server Management Studio nasledovne: V ľavom strome si zvolíte databázu, do ktorej chcete zálohu obnoviť. Kliknete na ňu pravým tlačidlom myši a presuniete sa do časti *Tasks -> Restore -> Database.*



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Kicrosoft SQL Server Management Studio		
File Edit View Debug Tools Window Commu	unity Help	
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Object Explorer Connect Image: Server SQL (SQL Server 10.50.1600 Image: Databases Image: System Databases Image: Server Databases Image: Server Databases Image: Server Databases Image: Server Database Image: Server Databas	Zvošite si databázu ktorů chete obnoviť zo zálohy, kliknete pravým tlačidom myši, následne na Tašks -> Restore -> Database Strink • Back Up Restore • Database Generate Scripts Import Data Export Data	

Obrázok: Vstup do obnovy SQL databázy zo zálohy

V novootvorenom okne si zvolíte databázu do, ktorej sa má záloha obnoviť a zálohu z ktorej chcete aby sa dáta obnovili.



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🗉 🚺 model		To a point in time: Most recent p	ossible
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F Database S		Source for restore	
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🗉 🔰 RSP			zálohu, ktorú chcete
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Replication		Select the backup sets to restore:	
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Obrázok: Výber zálohy pre obnovu a nastavenie miesta pre obnovenie databázy

V záložke *Options* si zvolíte detailné nastavenia spôsobu obnovy. Po kliknutí na tlačidlo OK sa začne proces obnovy.



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Obrázok: Nastavenie spôsobu obnovy SQL databázy zo zálohy v záložke Options

Spôsob kontroly - chyby

Vyhodnocovanie úspešne a neúspešne vykonaných záloh sa realizuje pomocou nástroja v C-Monitor klientovi na sledovanie zmien súborov - File WatchDog. Viac o nastavení sledovania zmien súborov sa dočítate v časti <u>Sledovanie zmien súborov</u> [1].

Jediný rozdiel oproti všeobecným nastaveniam popísaných v <u>Sledovanie zmien súborov</u> [1], je v nastavení cesty k súborom na sledovanie zmien, kde zadáte zložku pre ukladanie záloh SQL databáz.



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Emails waiting for sending Ty open each found file for read and ignore those which can't be opened. acced Time: 0:01:40						
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System Info	< Back Next > Cancel					
Waiting Tasks History	Next Describle Execution					
Execution Fails	Wed, 22. Aug 2012, 14:40:00					
Modules logs	Execute from Wed, 8. Feb 2012 at 14:40:00					
C-BackupPlus Logs	Execute Every week in Wed					
C-Image Logs	ge Loge Min Interval between executions Automatic					
C-vmwBackup Logs	Command Line Modules/Descript/DescCons.exe /Modules/Descript/complete.sds /Logs/lastdesccpl.xml-xml-eof/Logs/lastcomplete.sdf		-			

Obrázok: Nastavenie cesty k zložke, do ktorej sa ukladajú SQL zálohy

V časti extended conditions si zvolíte minimálnu veľkosť zmenených súborov. To znamená, že ak má obvyklá záloha databázy veľkosť 2,3GB, tak minimálnu zmenu nastavíte na 2GB, pretože ak je záloha väčšia ako 2GB (tj. zmenené subory), sa dá predpokladať, že zálohovanie prebehlo úspešne.

CUSTOMER MONITOR IT monitoring and management tool			Záloha MS SQL standard Zverejnené na Customer Monitor (https://www.customermonitor.sk)			
Fil	les WatchDog			-		x
	CDescript Use extended conditions for changed files bas of changed files. If these conditions will not be Use extended conditions for changed files bas of changed files. If these conditions will not be Use extended conditions for changed files bas of changed files. If these conditions will not be					
	File Name Mask (like C-BackupPlus) e.g. **.txt	Min. File Size	Size	Files Tot. Count	Min. Changed Files Tot. Size	Â
	××	2GB				
1						
						-
						-
	< Back Next >				Canc	el

Obrázok: Nastavenie obvyklej veľkosti SQL databázy po vykonaní zálohy

Nastavenie spúšťania pravidelnej úlohy na sledovanie zmien súborov musí byť s miernym odstupom po vykonaní zálohovania. To znamená že ak zálohovanie SQL databázy skončí o 17:45 tak spustenie tejto úlohy môžete naplánovať napr. na 19:00, aby sa korektne vyhodnocovali všetky údaje.



Zverejnené na Customer Monitor (https://www.customermonitor.sk)

MonitorConsole			x				
C-Monitor Tools Help	Scheduler						
@ Settings	Ele Edit 📓 🎘 💠 🕼 🗙 🕸 🖌 🤤 🖌 🗠 🕬 😯 🖓 Falter (Ab						
C Scheduler	C:\CMonitor\Cnl?\ScheduleList.sdl						
Watches	Name / Command Line Last Execution Last Result		-				
	DescCons.exe complete.sds Wed, 21:53:05 Elapsed Time: 0:0	0.22					
C-Monitor Runtime Information's	C-Descript for CM Complete - Differential 20. Aug 2012 DK						
Waiting Tasks	DescCons.exe Mon. 9.0215 Elapsed Time: 0.0	0.18					
Watches State	9K						
Watches Current Log	WatchDog Japped Time: 0.0	10:13					
C-Monitor Current Log	Received N						
Emails	Descript Japand Time 0.0	1:37	_				
Emails from Tasks, Watches waiting to Se	t required first start date and time, and required period	0.33					
Received, processed Emails		D	- 1				
Emails waiting for sending	Once Execute from 20. 8.2012 • at 16.35:00	11:40 (View Log File)					
Emails - All (without waiting for sending	Daily Company 1		- 1				
Sent Emails - C-Monitor System Met	Weeklu Lapsed Time: 0.0	JD:41					
Sent Emails - Oser and system task	Last possible start		_				
Not Sent Emails - Disabled	lapsed Time: 0.0	JD:00					
Not Sent Emails - Failed	Other period Spustenie úlohy treba nastaviť s						
(B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	Never dostatočným časovým odstupom						
(E) History	po skonceni zajonovania SQL		-				
Executed Tasks	databazy		- ñ				
Watches History			Ξ				
System Info	Z Bank Next S						
Network Info	Calca Calca						
Waiting Tasks History	Waiting Tasks History Next Possible Execution						
Execution Fails	Execution Fails: Wed, 22. Aug 2012, 14:40:00						
Modules logs	Execute from Wed, 8. Feb 2012 at 14:40:00						
C-BackupPlus Logs	Min interval between executions Automatic						
C-Image Log:	nage Log:						
Modules/Descript/DescCons.exe Modules/Descript/complete.sds %Logs/lastdesccpl.xml-eof.%Logs/lastcomplete.sdf							

Obrázok: Nastavenie pravidelného spúšťania pravidelnej úlohy na sledovanie zmien súborov Date:







Odkazy

- [1] https://www.customermonitor.sk/ako-funguje-cm/monitoring/sledovanie-zmien-suborov
- [2] https://www.customermonitor.sk/sites/default/files/1_16.png
- [3] https://www.customermonitor.sk/sites/default/files/2_15.png
- [4] https://www.customermonitor.sk/sites/default/files/4_12.png
- [5] https://www.customermonitor.sk/sites/default/files/5_10.png
- [6] https://www.customermonitor.sk/sites/default/files/6_8.png
- [7] https://www.customermonitor.sk/sites/default/files/7_7.png
- [8] https://www.customermonitor.sk/sites/default/files/8_9.png
- [9] https://www.customermonitor.sk/sites/default/files/10_7.png
- [10] https://www.customermonitor.sk/sites/default/files/11_8.png [11] https://www.customermonitor.sk/sites/default/files/12_6.png
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- [16] https://www.customermonitor.sk/sites/default/files/2_16.png
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- [18] https://www.customermonitor.sk/sites/default/files/1_32.png
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- [20] https://www.customermonitor.sk/sites/default/files/watch%20dog.png
- [21] https://www.customermonitor.sk/sites/default/files/7_19.png