

Moving K2 blackpearl SQL Databases to a new SQL Server or Instance

STEP BY STEP GUIDE

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INTRODUCTION

From time to time it might be necessary to move the K2 blackpearl SQL databases to a new SQL server due to various reasons. The steps described below show the necessary steps to perform this action successfully.

IMPORTANT CONSIDERATIONS

When moving the K2 blackpearl SQL databases to a new SQL Server or Instance it is important to take note of the following:

- If you are going to change the location of the backup files, as described in step 6, SQL does not put a .bak file extension at the end of the file name which might make locating the relevant backup files difficult.
- It is recommended that both servers have the latest service packs of SQL installed. If this is not possible it is advised that both servers have the same service packs installed.

ADDITIONAL INFORMATION

The following resources can be helpful when performing this task:

- How to transfer logins and passwords between instances of SQL Server <u>http://support.microsoft.com/kb/246133</u>
- Important SQL considerations <u>http://msdn.microsoft.com/en-us/library/ms190436.aspx</u>

STEP-BY-STEP INSTRUCTIONS

BACKUP AND RESTORE DATABASES

1. Navigate to Start > Administrative Tools > Services and stop the K2 blackpearl Server.

🔍 Services							<u> </u>
File Action View	Help						
	à 🛃 🚺 📷 🕨 🔲 II ID						
Services (Local)	🔕 Services (Local)						
	K2 blackpearl Server	Name 🔺	Description	Status	Startup Type	Log On As	
		🔍 IIS Admin Service	Enables thi	Started	Automatic	Local System	
	Start the service	🥋 IKE and AuthIP IPs	The IKEEX	Started	Automatic	Local System	
		🔍 Interactive Service	Enables us		Manual	Local System	
	Description:	🔍 Internet Connectio	Provides n		Disabled	Local System	
	K2 blackpearl Server Service	🔍 Intersite Messaging	Enables me	Started	Automatic	Local System	
		🔍 IP Helper	Provides a	Started	Automatic	Local System	
		🌼 IPsec Policy Agent	Internet Pr	Started	Automatic	Network S	
		🐝 K2 blackpearl Server	K2 blackpe		Automatic	K2DEMO\	
		🤹 Kerberos Key Distri	On domain	Started	Automatic	Local System	
		🤹 KtmRm for Distribut	Coordinate	Started	Automatic (D	Network S	
		🔍 Link-Layer Topolog	Creates a		Manual	Local Service	
		🌼 Message Queuing	Provides a	Started	Automatic	Network S	
		🔍 Microsoft .NET Fra	Microsoft		Manual	Local System	
	ļ,	Cha Microsoft Fibra Cha	Denisters t		Manual	Local Service	•
	Extended Standard						

- 2. Open SQL Server Management Studio 2008.
- 3. Connect to the relevant server.

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Elo Edit View	rver Management Studio	Hab	
Connect -			
	erver 10.0.2531 - K2DEMO\Admir		
 Databases 			
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+ Databi	ase Snapshots enories		
🕀 🔰 K2Dep	endencies		
🕀 🗾 K2Env	ironmentSettings		
K2Eve K2Eve	ntBus ntBusScheduler		
E K2Hos	tServer		
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K2Serv K2Serv	verLog artBox		
E K2Sma	artBroker		
🕀 🚺 K2SQL	UM		
H K2Wet	bDesigner bWorkflow		
🗄 🤘 K2Wor	rkspace		
🕀 📙 Report	tServer		
H Share	tserverrempus Point AdminContent 77782c89-a	aa8	
🕀 🔰 Sharef	Point_Config		
E 🔰 WSS_(Content		
E Server Ob	jects		
🕀 🚞 Replication	1		
E Manageme Manageme Sol Serve	ent vr. Agent		
🗄 📷 SQL Serve	a Agent		
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Ready			1
. Right clic	ck on the first data	abase and select Tasks .	
K2Categorie	New Database		
K2Environme	New Query		
K2EventBus	Script Database as		
K2EventBus	Taska		
K2Server		Detach	
0 K2ServerLog	Policies	Take Offline	
K2SmartBox	Facets	Bring Online	
K2SQLUM	Start PowerShell	Shrink	
K2WebDesig			
K2WebWork	Reports	Back Up	
ReportServe	Rename	Restore	
ReportServe	Delete	Mirror	
SharePoint_	Refresh	Launch Database Mirroring Monitor	
WSS Conter	Properties	Ship Transaction Logs	
Security	11 oper des	Concerto Serieto	
Server Objects		Generate Scripts	
Management		Publish Using web service	
SQL Server Agent		Import Data	
		Export Data	
		Copy Database	
		Manage Database Encryption	

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间 Back Up Database - K2Cate	gories				
Select a page	🔄 Script 👻 📑 Help				
General					
	Source				
	Database:		K2Categories		•
	Recovery model:		FULL		
	Backup type:		Full		-
	Copy Only Backup				
	Backup component:				
	Database				
	C Files and filegroups:				
	Backup set				
	Name:	K2Categories-F	ull Database Back	up	
	Description:				
	Backup set will expire:				
	 After: 	0	•	days	
Connection	C On:	2010/01/10	7		
Server:	Destination				
DEMO	Back up to:	Disk	0	Таре	
Connection: K2DEMO\Administrator	C:\Program Files\Microsoft SQL \$	Server\MSSQL10.	MSSQLSERVER\	MSSQL\Ba	Add
View connection properties					Remove
Progress					Contents
Ready	•				
				ОК	Cancel

5. Click on Back Up. The Back Up Database wizard screen will be displayed.

6. Leave the settings on default. Change the destination path if desired.

Note: The default location where the backup files will be created is: "C:\Program Files\Microsoft SQL Server\MSSQL 10.MSSQL\Backup"

7. Click OK.

- 8. Perform steps 2 7 for the following databases as well:
 - K2Categories
 - K2Dependencies
 - K2EnvironmentSettings
 - K2EventBus
 - K2EventBusScheduler
 - K2HostServer
 - K2Server
 - K2ServerLog
 - K2SmartLog
 - K2SmartBox
 - K2SQLUM
 - K2WebDesigner
 - K2WebWorkflow
 - K2Workspace
- 9. Copy the database backup files to the new SQL Server machine in an easily locatable folder.

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- 10. On the new SQL Server machine, open SQL Server Management Studio 2008.
- 11. Expand the Server or Instance and right click on Databases.



13. The Restore Database wizard screen will be displayed.

间 Restore Database - Catego	ories						<u>_ ×</u>		
Select a page	🔄 Script 👻 📑 He	lp							
Options	Destination for restore								
	Select or type the name of a new or existing database for your restore operation.								
	To database: Categories				•				
	To a point in tin	ne:	Most recen	t possible					
	Source for restore								
	Specify the sou	rce and location of ba	ckup sets to i	restore.					
	C From databa	C From database:			•				
	From device	ı Files∖Microsoft	iles\Microsoft SQL Server\MSSQL10.MS						
	Select the backup sets to restore:								
	Restore Na	Restore Name			Туре	Server	Database		
	K2	Categories-Full Databa	ase Backup	Database	Full	DEMO	K2Categories		
Connection									
Server: DEMO									
Connection: K2DEMO\Administrator									
View connection properties									
Progress									
Ready									
194 B.S.	•						Þ		
					0	к	Cancel		
							/		

- 14. Type in the Database's name you are restoring in the **To database** field.
- 15. Select the **From Device** option and click on the ellipse button to specify the database backup location. The **Specify Backup** wizard screen will be displayed.



Specify Back	цр							>	<u><</u>
Specify the back	up media and its	s locatio	n for your rest	ore oper	ation.				
Backup media:		Fi	e			•			
Backup location:									
							Add Remo Conte	ve nts	
				ОК	Car		Help	p	
16 Click OK									111
Restore Database	- Categories								_ [[
Select a page	Sci	ript 👻 🧗	Help						
General	_								
	Dest	ination for	restore						
	S	elect or ty	pe the name of a	a new or ex	isting databa	ase for your rest	ore oper	ation.	
	т	o databas	e:		Categories				•
	т	o a point i	in time:		Most recen	t possible			
	Sour	ce for rest	ore						
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	0	From da	tahase.		·				
	G	From de	wice:			Files\Microsoft	SQL Se	enver\MSS	OL 10 MS
	c	elect the l	hackup este to re	etoro:	lo				
		Restore	Name	3010.		Component	Туре	Server	Database
			K2Categories-F	ull Databa	se Backup	Database	Full	DEMO	K2Categories
Connection									
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K2DEMO\Administrator	roperties								
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Ready									
Weap.		•							D
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- 17. Select the **Restore** option and click **OK**.
- 18. Repeat steps 11 17 for the remaining databases.
- 19. After all the databases have been restored, run the K2 blackpearl Configuration Manager and point the Configuration Manager to the new SQL Server and continue through the configuration.

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K2 BLACKPEARL SETUP MANAGER

When migrating the SQL databases, a reconfigure will need to be run on all K2 components that pointed to the original databases.

Open the K2 blackpearl Setup Manager. On the Service Accounts screen, uncheck the checkboxes that allows the user to use the existing settings, and retype the passwords for all accounts. This will ensure that the installer creates new Symmetric Keys if required.

If there is a K2SQL security label configured, the connection string needs to be updated to point to the new SQL Server when the K2 blackpearl Setup Manager is run.

Symmetric Keys and Certificates manually created

If for some reason the SCSSOKey symmetric keys and SCHostServerCert certificates need to be created manually, they have to be created in the following databases on the new SQL server:

- K2Hostserver
- K2SmartBroker
- K2Smartbox
- K2SQLUM

The following script can be used to perform these actions manually:

DROP SYMMETRIC KEY SCSSOKey DROP CERTIFICATE SCHostServerCert DROP MASTER KEY CREATE MASTER KEY ENCRYPTION BY PASSWORD = '5CE05F96-98A1-475C-9E8C-5053F057D312' CREATE CERTIFICATE SCHostServerCert WITH SUBJECT = 'Host Server Certificate', START_DATE = '01/01/2007', EXPIRY_DATE = '01/01/2017' CREATE SYMMETRIC KEY SCSSOKey WITH ALGORITHM = TRIPLE_DES ENCRYPTION BY CERTIFICATE SCHostServerCert

TROUBLESHOOTING REPORTS

In some cases, the K2 Reporting won't work. Errors similar to the following might occur:

Service: K2GenericSettings Service Guid: f832fc2c-55eb-4635-8837-61879cb1feff Severity: Information Error Message: The EXECUTE permission was denied on the object 'mGetGenericSettingItem', database 'HostServer', schema 'dbo'. InnerException Message

In the event of this happening, check the K2 Generic Setting Service and double check the Connections string, chances are that this did not update.