



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

STEP BY STEP GUIDE

May 19



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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

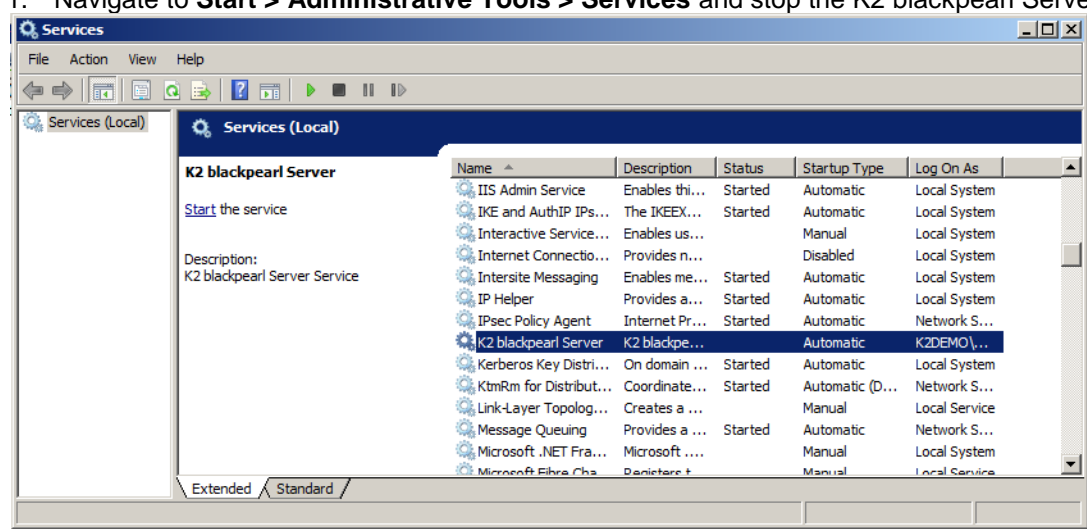
The following resources can be helpful when performing this task:

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

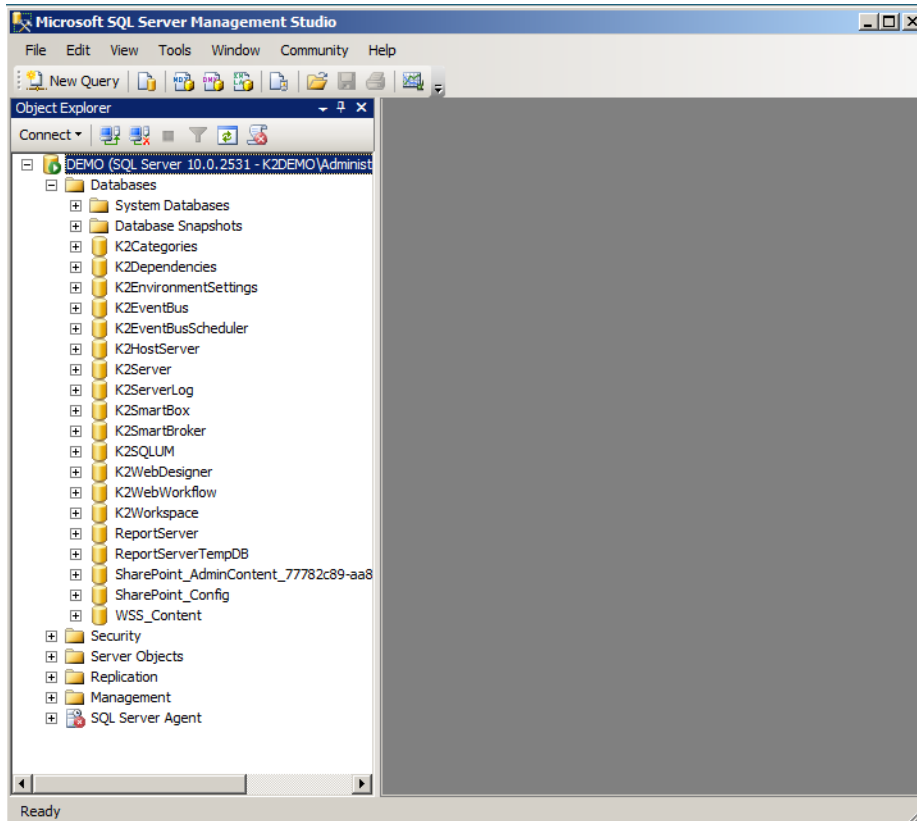
STEP-BY-STEP INSTRUCTIONS

BACKUP AND RESTORE DATABASES

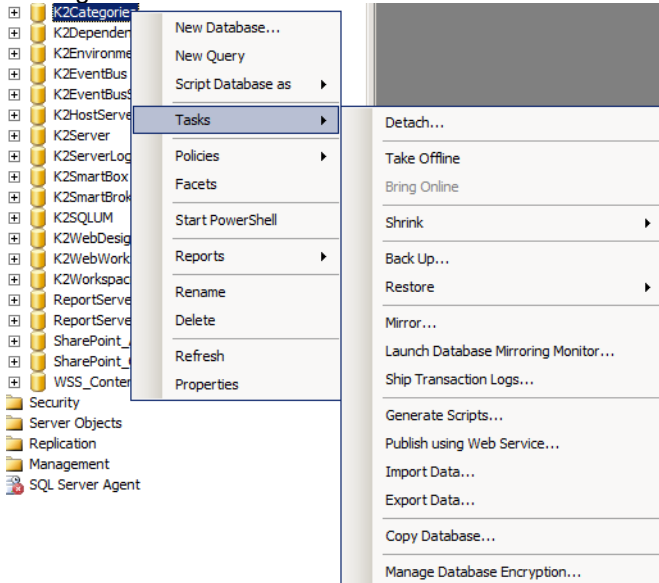
1. Navigate to **Start > Administrative Tools > Services** and stop the K2 blackpearl Server.



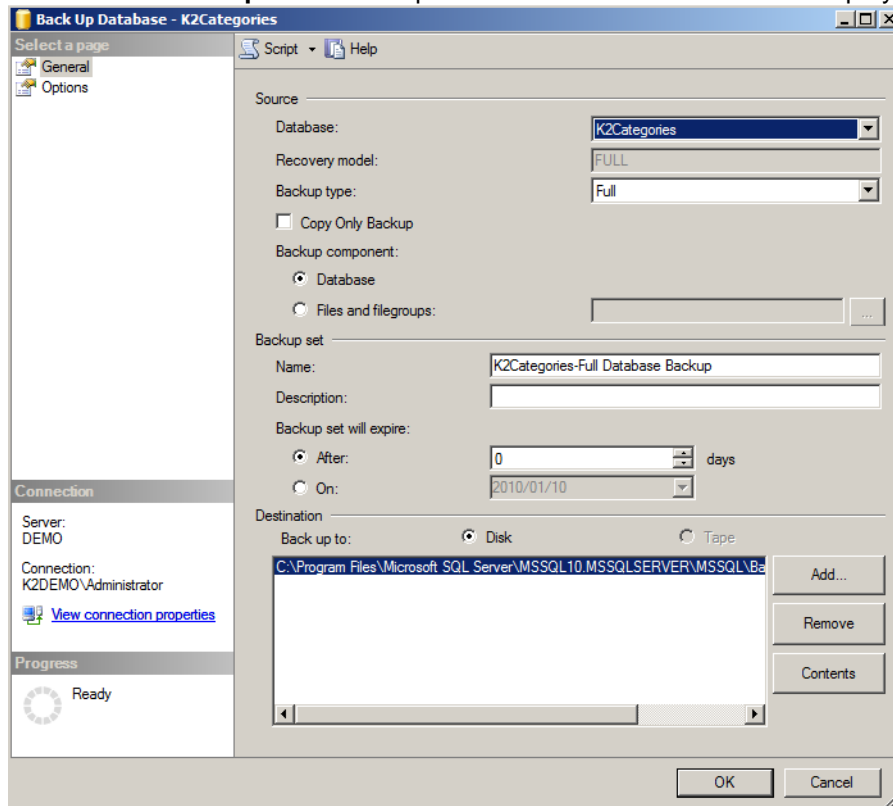
2. Open SQL Server Management Studio 2008.
3. Connect to the relevant server.



4. Right click on the first database and select **Tasks**.



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.

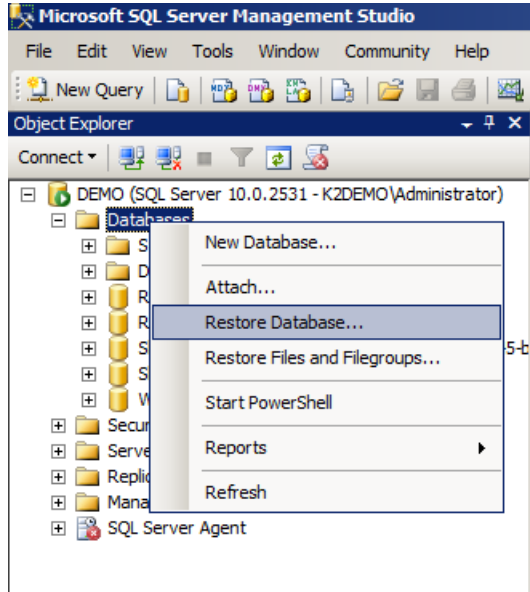


Note: The default location where the backup files will be created is: "C:\Program Files\Microsoft SQL Server\MSSQL 10.MSSQL\Backup"

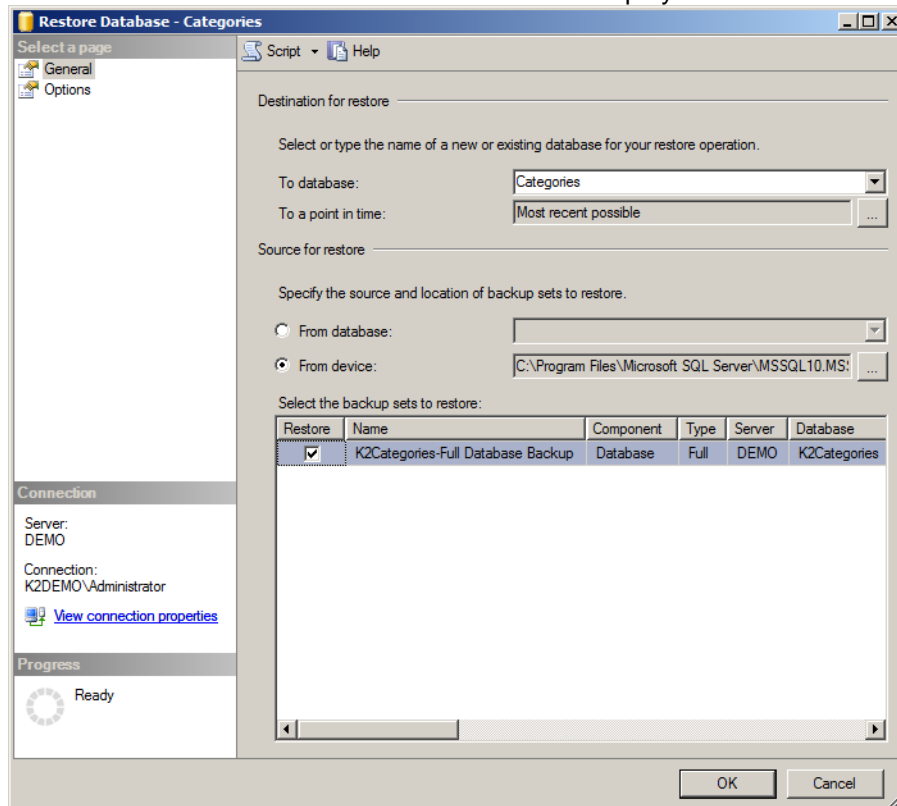
7. Click **OK**.
8. Perform steps 2 – 7 for the following databases as well:
- K2Categories
 - K2Dependencies
 - K2EnvironmentSettings
 - K2EventBus
 - K2EventBusScheduler
 - K2HostServer
 - K2Server
 - K2ServerLog
 - K2SmartLog
 - K2SmartBox
 - K2SQLUM
 - K2WebDesigner
 - K2WebWorkflow
 - K2Workspace

9. Copy the database backup files to the new SQL Server machine in an easily locatable folder.

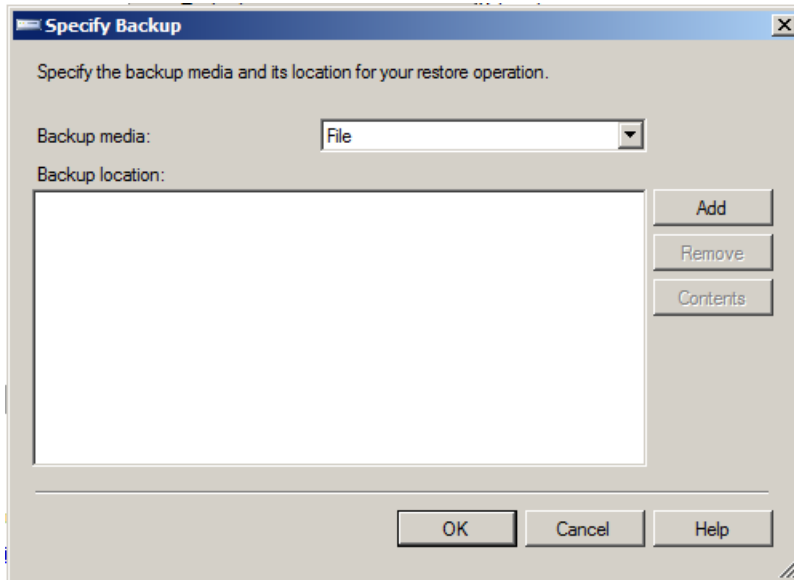
10. On the new SQL Server machine, open SQL Server Management Studio 2008.
11. Expand the Server or Instance and right click on **Databases**.
12. Select **Restore Databases**.



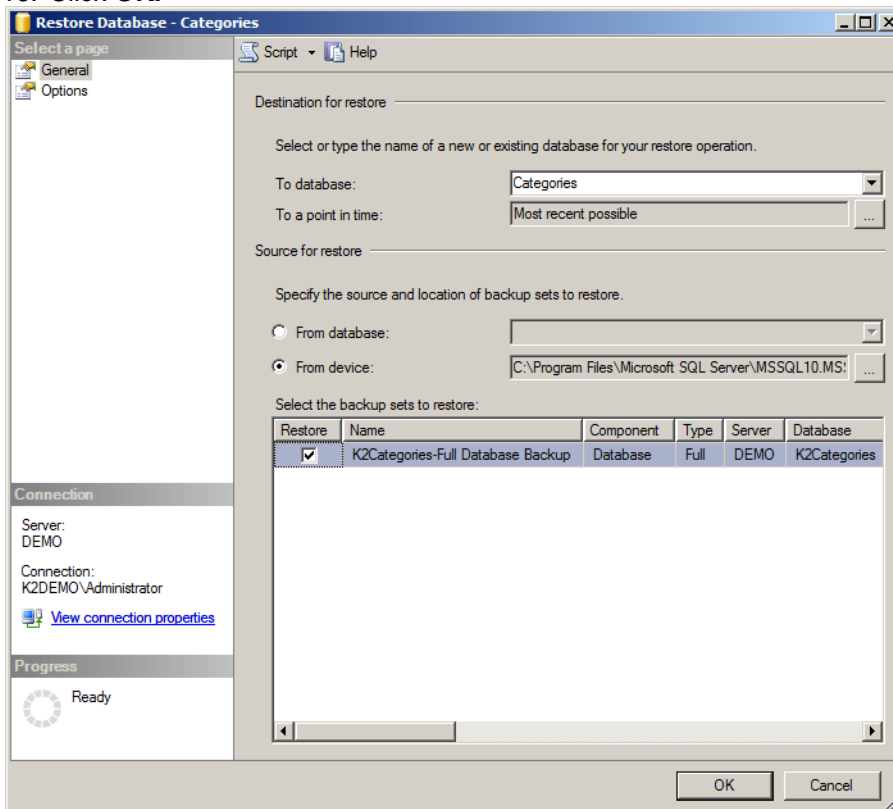
13. The **Restore Database** wizard screen will be displayed.



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.



16. Click **OK**.



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.



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 SHostServerCert 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 SHostServerCert
DROP MASTER KEY
CREATE MASTER KEY ENCRYPTION BY PASSWORD = '5CE05F96-98A1-475C-9E8C-
5053F057D312'
CREATE CERTIFICATE SHostServerCert
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 SHostServerCert
```

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.