

Knowledge Base Article

Product Group: Software

Product: SQL Server database file

Version:

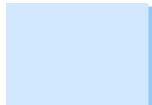
Abstract

This article discusses how to improve SQL server performance by moving database files to separate drives.

Overview

On occasions customers experience performance issues with the database as a result of increased I/O operations. I/O operations with database files include the data file and the log file.

I/O operations with database files include the data file and the log file. In this case for Analyst databases most customers have two files, skfuser.mdf and skfuser_log.ldf.





The example and steps below describe moving a log file (the skfuser log file) from a location on "C" drive to one on "D" drive. The example can be easily adapted for a data (mdf) file.

Prerequisites

- Stop all services connecting to skfuser database or Analyst. Services include Transaction Server, IMX service, etc.
- Display the location and status of the skfuser files before processing any changes, using:

SELECT name, physical_name AS NewLocation, state_desc AS OnlineStatus FROM sys.master_files WHERE database_id = DB_ID(N'skfuser')

	1	name	NewLocation	OnlineStatus
	2	skfuser	C:\Databases\DataFiles\skfuser.mdf	ONLINE
	3	skfuser_log	C:\Databases\DataFiles\Vale\skfuser_log.ldf	ONLINE

Note:

Please execute each statement in the steps below separately, before proceeding with the next step.

Step 1

 Alter the logical file location within SQL Server to match the path of the physical location where the log file is going to be placed. To do this use:

ALTER DATABASE skfuser
MODIFY FILE (NAME = skfuser_log, FILENAME = 'D:\DatabaseLogFiles\skfuser_log.ldf')

Step 2

 Disconnect the skfuser database from all external activities by taking it offline, using:

ALTER DATABASE skfuser SET OFFLINE

Step 3

 With the database offline, move the skfuser_log.ldf file to the new location:

Drag and drop (or cut and paste) skfuser_log.ldf to the location specified in step 1.



Step 4

 Bring database back online for the changes to take effect and so users can resume normal activities.

ALTER DATABASE skfuser SET ONLINE

• Verify that the file move was successful by displaying current location and status in SQL Server:

SELECT name, physical_name AS NewLocation, state_desc AS OnlineStatus FROM sys.master_files WHERE database_id = DB_ID(N'skfuser')

1	name	NewLocation	OnlineStatus
2	skfuser	C:\Databases\DataFiles\skfuser.mdf	ONLINE
3	skfuser_log	D:\DatabaseLogFiles\skfuser_log.ldf	ONLINE

For further assistance, please contact the Technical Support Group by phone at 1-800-523-7514 option 8, or by e-mail at TSG-CMC@skf.com.