

This presentation will discuss how to manually copy a dataset from one server to another.



The objectives of this presentation are to document the process by which you can copy a dataset created on one DataStage server to another DataStage server. The presentation will go through the steps to create a very simple parallel DataStage job that will create an output dataset file using a two node configuration file on a DataStage server which is referred to as the source server. The presentation will also cover which files are created on the source server and locations of these files after the job has run. Next, it will explain which files need to be copied on the destination server and their locations and what configuration changes that are required. The presentation will also go through steps to create a very simple parallel job to read this copied dataset on the destination. Finally, the presentation will discuss why you may want to use this method to copy a dataset and what restrictions apply to this method.

	IBM
Create a simple parallel job to create a dataset	
DSLink2       IIII         20 rows       Data_Set_3         Row_Generator_0       Row_Generator_0         Row_Generator_0       Row_Generator_0         Stage       Output         Stage       Output         Stage       Output         Stage       Output         Forw_Generator_0       Combinability mode:         Parallel       [Auto]	Preserve partitioning:
Output name: DSLink2 General Properties Columns Advanced Column name Key SQL type Extended Length Scale Nullable 1 1 col1 VarChar 10 No	
General Parameters Job control Dependencies NLS Generated DSH Execution Defaults	
Parameter name         Prompt         Type         Default Value           1         \$APT_CONFIG_FILE         Configuration file         Pathname         /opt//IBM/InformationServer/Server/Configurations/test.apt	Help Text The Parallel job configuration file.
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The first step in this presentation is to create a very simple job using a row generator to write to a dataset file as demonstrated on this slide. For the purpose of this presentation, a single column definition is used and the row generator is set to run in parallel and use a two node configuration file called test.apt. The configuration file details are covered in the later slides. The dataset descriptor file, called datasetfile.ds, is created in the location displayed on this slide.



The previous job uses the APT\_CONFIG file to create a two node dataset which creates two data files in the /tmp/Datasets directory on a node called gbaix85485, which is referred to as the source server.

	IBM
Dataset files created and locations	
<ul> <li>Job creates multiple files</li> </ul>	
\$ uname -a	
AIX gbaix85485 1 7 00C922AC4C00	
\$ pwd	
/tmp/Datasets	
\$ ls -l	
-rw-rw-r 1 dsadm dstage 131072 28 May 14:32 datasetfile.ds.dsadm.gbaix85485.0000.0000.0000.88008e.51a4bfe2.0000.7929b062	
-rw-rw-r 1 dsadm dstage 131072 28 May 14:32 datasetfile.ds.dsadm.gbaix85485.0000.0001.0000.88008e.51a4bfe2.0001.3c93059f	
\$ pwd	
/home/dsadm/Federico/ds_file	
\$ ls -l	
-rw-rw-r- 1 dsadm dstage 2061 28 May 14:32 datasetfile.ds	
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Once the job has been run, using the two node APT\_CONFIG file demonstrated in the previous slide, the example files displayed on this slide are created in the locations displayed. The dataset raw data files are created in the /tmp/Datasets directory. Notice that two files are created since you used a two node configuration file. The dataset descriptor file called datasetfile.ds is created in the /home/dsadm/Federico/ds\_file directory as defined in the output dataset stage properties.



Copy the files displayed on this slide from the source server, which for the purpose of this presentation is gbaix85485, to the destination server, which, for the purpose of this presentation, is gbaix85487. Copy the test.apt file that was used previously, the dataset descriptor file, datasetfile.ds, and the two dataset raw data files that were created using the two node configuration file to the destination server. The configuration and the dataset descriptor files can be copied to any location on the destination server and the DataStage job design modified to point to these new locations. However, the dataset raw data files need to be copied to the same directory structure on the destination server, hence, these directories will need to be created if they do not already exist. If you want to use existing directories, create soft links to the directories that you want. Ensure that the correct ownership and permissions are set on the files and directories.



Once the files have been copied and directories created on the destination server, edit the copied configuration file and update the fastname to reflect the new destination server name, in this example, gbaix85487. As an additional note, it is also possible to use a configuration file that contains the same set or superset of nodes, but not a subset. Keep the nodes the same to make things simpler.

	IBM
Configuration changes on the destination server (2 of 2)	
<ul> <li>\$APT_CONFIG_FILE location on destination server /home/dsadm/Federico/APT_CONFIG_LOC/test.apt</li> </ul>	
<ul> <li>Dataset descriptor file location on destination server</li> </ul>	
/home/dsadm/Federico/input_ds_file/datasetfile.ds	
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As previously mentioned, the configuration file and the dataset descriptor file can be copied to a different location on the destination server and does not need to have the same location as on the source server. In this example, the locations of the files have changed so the job reading this dataset needs to be modified to reflect the changes on the location. These details are used on the following slides.

	IBM
Create simple job to read the dataset	
DSLink2 Peek_3  Peek_3 Peek_3 Peek_3 Peek_3 Peek_3 Peek_3 Peek_3 Peek_3 Peek_3 Peek_3 Peek_3 Peek_3 Peek_4 Peek_4 Peek_4 Peek_4 Peek_4 Peek_4 Peek_4 Peek_4 Pe	
Stage       Output         Output name:       Columns         DSLink2       Columns         General       Properties         Columns       Advanced         Source       File         Optons       /home/dsadm/Federico/nput_ds_file/dataset/file.ds         Missing Columns Mode = Ignore       Image: Columns in the image: Columns	
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Once all the files are in their locations as displayed in the previous slides and you have verified that all the file ownership and permissions are correct, the next step is to create a simple job to read the dataset. A simple dataset input file and a peek stage suffices to test. Ensure that you point to the correct APT\_CONFIG file and dataset file locations. Once all the necessary changes have been completed, compile and run the job and verify that the data has been read correctly.

	IBM
Why use this method to copy a dataset?	
<ul> <li>Testing DataStage jobs on a different DataStage server</li> <li>Required to use the same input dataset file</li> </ul>	
<ul> <li>Assist IBM support to replicate issues that may be directly related to specific ir data</li> </ul>	nput dataset
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There are a couple of instances where it may be required to use a copy of a dataset from another server rather than recreating the dataset on the second server. One example is where testing needs to be done where the data extraction on the new system has not been enabled, hence, the same dataset files cannot be created. In this case, it is necessary to use an existing dataset from another similar server environment to run some initial testing.

This method can also be very useful when raising support cases where a test case requires an input dataset to replicate the issue.

	IBM
Restrictions	
<ul> <li>Dataset files</li> </ul>	
<ul> <li>Both servers must be same OS platform and major release</li> </ul>	
<ul> <li>Target server must be same DataStage release or higher than source</li> </ul>	
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This method of manually copying the dataset files from one server to another does have some restrictions. First, the source server operating system where the dataset has been created must be the same as that of the target server. Ideally, you should copy the datasets between the same releases of DataStage. However, you should also be able to read older datasets with newer versions of DataStage.

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