Tivoli Storage Manager V6.2

Simultaneous write during storage pool migration



Welcome to this IBM Education Assistant module for Tivoli[®] Storage Manager, version 6.2. In this training module, you learn about simultaneous data copying during backup and storage pool migration.

IBM

	IBM
Simultaneous write during client backup	
 Simultaneous storage pool backup during client backup time has been available with Tivoli Storage Manager since version 5.1 	
 Simultaneous write at backup time can slow backup and increase tape drive usage 	
 Manual migration and storage pool backup must be performed at separate times, and amount of time available is small 	d the
 These issues also apply to simultaneous write to active data pools 	
2 Simultaneous write during storage pool migration © 201	0 IBM Corporation

Simultaneous write at backup has been available in the Tivoli Storage Manager client and server since version 5.1. When Tivoli Storage Manager performs a backup to a primary pool, it can simultaneously write backup data to a copy storage pool or to an active data pool.

However, simultaneous write during backup can slow backup times and increase tape drive usage. It is becoming more difficult to complete manual migration and storage pool backup (nonsimultaneous) because you must complete them separately. You must also complete them after backups have completed.



In Tivoli Storage Manager version 6.2, data is copied to a copy storage pool or an active data pool simultaneously <u>as the</u> data is migrated to a primary pool.

This function provides faster backups because simultaneous data writing occurs after the backup is complete. Faster storage pool backup or active data pool copy backup happens because the copy can be overlapped with migration.

Data flows into the primary storage pool from a backup. When the data is later migrated, it can be simultaneously sent to a copy storage pool on disk or tape. It can also be sent simultaneously to an active data pool on disk or tape.

IBM	
Simultaneous write during storage pool migration	
 You can specify up to three copy pools or active data pools for simultaneous write during migration 	
 Copies are incremental – no change from previous versions 	
 Source primary pool can be random or sequential, disk or tape but must use the native or nonblock format 	
 Simultaneous write does not support other data movements: Reclamation, Move Data, Move Nodedata, and so on 	
4 Simultaneous write during storage pool migration © 2010 IBM Corporation	

The primary pool can be random or sequential, a disk or a tape. It must use the native or nonblock format. Simultaneous write does not support functions such as reclamation, move data, or move node data.

You can specify up to three storage pools during migration. The three pools can be any combination of active and copy pools.

	IBM
Implementation (1 of 2)	
Use the existing COPYSTGPOOLS and ACTIVEDATAPOOLS parameters of the DEFINE STGPOOL and UPDATE STGPOOL commands STEP 1: Specify a storage pool value on the NEXTPOOL parameter for the migration source pool	
STEP 2: In that storage pool, specify the COPYSTGPOOLS or ACTIVEDATAPOOl parameters for the migration source pool	LS
5 Simultaneous write during storage pool migration © 20	10 IBM Corporation

To implement simultaneous data write, you first select the target pool. You specify this pool on the NEXTPOOL parameter of the migration source storage pool definition. Next, you specify the copy storage pool or active data pool parameters. You can specify up to three pools (copy or active) for simultaneous migration.

	TBM
Implementation (2 of 2)	
 STEP 3: Specify a value for the AUTOCOPY parameter on the target storage poor 	bl
 CLIENT: Perform simultaneous write only on client backup operations Includes IMPORT for Copy Storage Pools. This is the default. 	
 MIGRATION: Perform simultaneous write only on migration operations 	
 ALL: Perform simultaneous write during both client backup operations, including I Copy Pools, and during migration operations 	MPORT for
NONE: Disable simultaneous write altogether	
6 Simultaneous write during storage pool migration	© 2010 IBM Corporation

The third step is to specify what type of operations to allow for simultaneous copy. In this step, you use one of the values for the AUTOCOPY parameter on the target storage pool.

The **Client** value triggers a simultaneous copy any time a backup occurs directly to this pool. This is the default setting.

The **Migration** value triggers a simultaneous copy only when migration occurs to this pool.

The All value triggers a simultaneous copy whenever either backup or migration occurs.

None disables simultaneous copy altogether.

		IBM
Summary		
In this module pool migrat	e, you learned how to simultaneously copy data during data backup a ion.	nd storage
7	Simultaneous write during storage pool migration	© 2010 IBM Corporation

In this module, you learned how to simultaneously copy data during data backup and storage pool migration for Tivoli Storage Manager version 6.2.

Trademarks, disclaimer, and copyright information
IBM the IBM loss, it means and Table are trademarks or registered trademarks of laternational Business Machines Corp. registered in menu
jurisdictions workdwide. Other product and service names might be trademarks of IBM or other companies. A current list of other IBM trademarks is available on the web at " <u>Copyright and trademark information</u> " at http://www.ibm.com/legal/copytrade.shtml
THE INFORMATION CONTAINED IN THIS PRESENTATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. WHILE EFFORTS WERE MADE TO VERIFY THE COMPLETENESS AND ACCURACY OF THE INFORMATION CONTAINED IN THIS PRESENTATION, IT IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. IN ADDITION, THIS INFORMATION IS BASED ON IBM'S CURRENT PRODUCT PLANS AND STRATEGY, WHICH ARE SUBJECT TO CHANGE BY IBM WITHOUT NOTICE. IBM SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES ARISING OUT OF THE USE OF, OR OTHERWISE RELATED TO, THIS PRESENTATION OR ANY OTHER DOCUMENTATION. NOTHING CONTAINED IN THIS PRESENTATION IS INTENDED TO, NOR SHALL HAVE THE EFFECT OF, CREATING ANY WARRANTIES OR REPRESENTATIONS FROM IBM (OR ITS SUPPLIERS OR LICENSORS), OR ALTERING THE TERMS AND CONDITIONS OF ANY AGREEMENT OR LICENSE GOVERNING THE USE OF IBM PRODUCTS OR SOFTWARE.
© Copyright International Business Machines Corporation 2010. All rights reserved.