

Restoring Backup Sets on the IBM® Tivoli® Storage Manager Client

Restoring Data from a Backup Set

A Tivoli Storage Manager administrator can generate a backup set (a collection of your active files that reside on the server) onto portable media. The server's portable media device must use a format that is compatible with the client's device. It is possible to generate a backup set as a number of special files if the Tivoli Storage Manager administrator specifies a device class of **FILE** during generation. These files can be stored locally (on the client) to provide more restore flexibility. WebSphere® Application Server and group backups can also be added to a backup set.

Portable media can be used on devices such as a tape, CD-ROM, DVD, and Iomega JAZ or ZIP drives. Current device support information is available on the Web site.

Restoring an Entire or Partial Backup Set

Tivoli Storage Manager considers a backup set as one object containing the whole file structure. You can restore the entire backup set or just select portions. The backup set media is self-describing and contains all the information required to perform a successful restore.

- The Tivoli Storage Manager Backup-Archive graphical user interface (GUI) can only restore an entire backup set.
- The command line can be used to restore an entire backup set or individual files within a backup set.

Restoring Backup Sets Using the GUI

Note:

Before you begin a restore, be aware that backup sets can contain data for multiple file spaces. If you specify a destination other than the original location, data from all file spaces are restored to the location you specify.

To restore a backup set, perform the following steps:

- Click **Restore** from the GUI main window. The **Restore** window appears.
- Locate the **Backup Sets** directory tree object and expand it by clicking the plus sign (+) beside it.
- To restore the backup set from a local device, expand the **Local** object and the **Specify backup set location** screen is displayed.
- On the screen, select **File name:** or **Tape name:** from the list and enter the tape or file name location. You can also click the **Browse** button to open a file selection window and select a backup set.
- To restore an entire backup set from the server, expand the **Server** object. Your backup sets appear in the directory tree and are grouped by backup set description.
- Expand a backup set description to view the backup sets with that description.
- Click the selection box next to the backup set that you want to restore.

- Click **Restore**. The **Restore Destination** window appears. Enter the appropriate information.
- Click **Restore**. The **Task List** window displays the restore processing status.

Restoring Backup Sets Using the Backup-Archive Command Line

The **restore backupset** command restores a backup set from the server, a local file, or a local tape device. Use the **location** option with the **restore backupset** and **query backupset** commands to specify where Tivoli Storage Manager searches for a backup set during a query or restore operation. You can use this option to locate backup sets on the server or local files. Tapes that are generated on the server can be used locally by specifying the **location** option and either the file name or the tape device. Use the **query backupset** command to query a backup set from a local file, tape device, or the Tivoli Storage Manager server. The **query backupset** command displays the backup set name, generation date, retention, and description.

Troubleshooting Tips

- If you cannot restore a backup set from portable media, check with your Tivoli Storage Manager administrator to ensure that the portable media was created on a device using a format that is compatible with the device on your local system.
- There is no support in the Tivoli Storage Manager API for the backup set format.
- To enable the GUI client to restore a backup set on an attached device on a Windows[®] stand-alone workstation, without requiring a server connection, use the **localbackupset** option. You can issue the **restore backupset** command to restore local backup sets from local media without using the **localbackupset** option.
- Certain local devices, such as tape devices, require device drivers to be set up prior to performing a restore. See the device manual for assistance with this task. You will also need to know the device address in order to perform the restore.
- Note that the **restore backupset** command supports restore of local backup sets from local media without using the **localbackupset** option.
- You cannot restore individual system objects, system service components, or system state components from a backup set.
- If the object you want to restore is part of a backup set generated on a client node, and the node name is changed on the server, any backup set objects that were generated prior to the name change will not match the new node name. Ensure that the node name is the same as the client node for which the backup set was generated.
- If the backup set is on the server, Tivoli Storage Manager security applies, and you can only restore your own files and files to which you have been granted access. However, Tivoli Storage Manager security does not apply to backup set data when restored locally because the physical media can be explored by the person who has access to it.

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