

1. BACKUP RECOVERY PROCEDURE

1.1 RECOVERY FOR NBU MASTER SERVER

1.1.1 Procedures for Recovering Catalog from Online Backup

Recovering the catalog from an online backup:

- Recovering the entire catalog

This is the recommended method for recovering the entire catalog and will recover the NetBackup relational database as well as NetBackup policy files, backup image files, and configuration files.



1.1.1.1Recovery of Entire Catalog

The entire catalog can be recovered by using the Catalog Recovery Wizard or the text-based bprecover –wizard command. Here, we show how to use Catalog Recovery Wizard for recovery.

- 1. Prepare the media that containing the catalog backup.
- 2. Start the netbackup services.

/usr/openv/netbackup/bin/bp.start_all

• Click Recover the Catalogs on the NetBackup Administration Console to start the Catalog Recovery Wizard. The Welcome screen appears.

| NetBackup Catalog | Recovery Wizard | × |
|-------------------|--|---|
| | Welcome to the NetBackup Catalog Recovery Wizard | |
| | This wizard guides you in recovering the NetBackup catalog from a hot, online catalog backup. | |
| | To recover from a cold, offline catalog backup, use the bprecover command line as described in the System Administrator's Guide. | |
| | Run this wizard only in the event of a disaster that requires the recovery of all or portions of the NetBackup catalog. | |
| | Help Cancel < Back | |

• Click Next to display the Catalog Disaster Recovery File screen.

Catalog recovery procedure



| NetBackup Catalog | , Recovery Wizard 🛛 🛛 🗙 |
|-------------------|---|
| | Catalog Disaster Recovery File Specify the location of your disaster recovery file. |
| | Specify the full pathname to the disaster recovery file : /disaster/Hot-CatalogBackup_1238214358_FULL |
| | If the disaster recovery file is not available, use the "bpimport -drfile" command to read it from the catalog backup media. See the documentation for further details. |
| | Click next, to obtain file (This may take long time) |
| | Help Cancel < Back Next > Finish |

• Enter the full path name of the file to the text box. The /disaster is the directory where all recovery files are stored. The latest file can be checked from the /disaster directory.

| 🛃 10.30.208.4 - PuTTY | | |
|----------------------------------|----------------------------------|--------|
| root@kfhibO8 | | |
| /var/tmp/CATALOGBACKUP | | |
| root@kfhibO8 # ls | | |
| CATALOGBACKUPHOT_1249266366_FULL | CATALOGBACKUPHOT_1251835380_FULL | |
| CATALOGBACKUPHOT 1249538148 FULL | CATALOGBACKUPHOT 1251921783 FULL | |
| CATALOGBACKUPHOT_1251354117_FULL | CATALOGBACKUPHOT_1252008180_FULL | |
| CATALOGBACKUPHOT_1251441429_FULL | CATALOGBACKUPHOT_1252180984_FULL | |
| CATALOGBACKUPHOT_1251489753_FULL | CATALOGBACKUPHOT_1252267389_FULL | |
| CATALOGBACKUPHOT_1251576161_FULL | CATALOGBACKUPHOT_1252353794_FULL | |
| CATALOGBACKUPHOT_1251662567_FULL | CATALOGBACKUPHOT_1252440198_FULL | |
| CATALOGBACKUPHOT_1251748974_FULL | | _ |
| root@kfhib08 # | | \sim |

• The wizard waits while NetBackup searches for the necessary media sources, then informs you whether or not the necessary backup id of the disaster recovery image was located.

Catalog recovery procedure



| NetBackup Catalog | Recovery Wizard | × |
|-------------------|---|---|
| | Retrieving Disaster Recovery File. Wait while the file contents are analysed. Completed searching for required media resources. | |
| | Action required : geprodsvr12_1238214358 All media resources were located | ľ |
| | To continue, click Next. Help Cancel <back< td=""> Einish</back<> | |

• When the required media sources are found, click Next to display the "Disaster Recovery Method" screen. The "Recover Entire NetBackup Catalog" radio button is selected.

| NetBackup Catalog | g Recovery Wizard | X |
|-------------------|--|---|
| | Disaster Recovery Method Select one of the following recovery processes to recover the NetBackup catalog. | |
| | Recover entire NetBackup catalog. (This is the recommended method.) | |
| R | Recover only NetBackup catalog image and configuration files. (Does not recover the NetBackup relational database, click Help for details.) | |
| U | Job Priority 90000 | |
| | For recovery of a 5 x media server catalog, see help for details. | |
| | To begin the restore, click Next. Once started it can not be canceled. | |
| | Help Cancel < Back | |





- Click Next to initiate the recovery of the entire NetBackup catalog. This wizard cannot be used to recover the catalog on NetBackup 5.x servers. NetBackup restores the entire NetBackup relational database, which includes the NBDB database, the BMR database, and the NetBackup policy files, backup images files, and other configuration files.
- The wizard displays the recovery process.

| NetBackup Catalog | g Recovery Wizard | × |
|-------------------|---|----------|
| | Recovering Catalog Wait while the catalog is being recovered. | 5 |
| | Recovering catalog. Please wat. Log file: 19:15:29 (697.001) INF - TAR EXITING WITH STATUS = 0 19:15:29 (697.001) INF - TAR RESTORED 248 OF 248 FILES SUCCESSFULLY 19:15:29 (697.001) INF - TAR KEPT 0 EXISTING FILES 19:15:29 (697.001) INF - TAR PARTIALLY RESTORED 0 FILES 19:15:30 (697.001) Status of restore from image created 8/11/2005 9:12:18 AM = the request 09:15:31 (697.000) INF - Status = the requested operation was successfully completed. | ▲ |
| Ĩ | 4 | |
| | For recovery of a 5.x media server catalog, see help for details. | |
| | (Eack Next> Close Concernent) | Help |

• The final screen announces that the full recovery is complete, that each image file is restored to the proper image directory, and that the NetBackup relational databases have been restored and recovered.



Catalog recovery procedure





After completed the Catalog recovery, please follow the below items using command line.

• Restart the NetBackup on the master server after recovery successfully.

/usr/openv/netbackup/bin/bp.kill_all
/usr/openv/netbackup/bin/bp.start_all

/usr/openv/netbackup/bin/netbackup start

After Catalog recovery completed :

- a) Step 1 perform remove all robot configuration, (delete using click on delete radio button)
- b) Step 2 perform configuration Storage Devices to acquire the latest robot.& drive
- c) Step 3 Please perform inventory robot scan to collect latest data.

Note: this steps need to perform every time onces catalog recovery take places





a) Step 1 Please remove all robot configuration, using delete.









Step 2 Go to configuration Storage Devices, click on it, there will be a Welcome configuration wizard shown.

- a) Click the next button. It will bring you to DEVICE configuration wizard.
- b) DEVICE hosts is kfhib08-b , and will perform scanning for latest devices attached.







Step 3 go to media radio button, right click , go to inventory robot pop-up screen shown. Then perform **ROBOT INVENTORY** pop-up menu shown. This will Right click and perform inventory robot to collect latest data,

| 🐌 Media - kfhib08-b - NetBackup Administra | ion Console [logged into kfhib08-b] | |
|---|---|---|
| Paritas NetBackup™ | | |
| File Edit View Actions Help | | |
| ■ ← → € 🗉 😫 & 💥 🚆 🔆 | Bobot Inventory | I |
| Inflib@B-b (Master Server) 17 Vo Krihi08-b (Master Server) Image: Server) Backup, Archive, and Restore Image: Krihi Activity Monitor Image: Krihi Packup Archive, and Restore Image: Krihi | EMM Server: kthib08-b Select robot Device host: Compare contents Compare contents with volume configuration | Volume Pool CatalogBackup Daily_pool None Full_Sys_Back |
| QL Policies Image: KFI Image: Weild and Device Management Im | kfhib08-b Preview volume configuration changes Robot: Update volume configuration TLD(0) - kfhib08-b Advanced Options Empty media access port prior to update | Full_Sys_Back Full_Sys_Back Daily_pool CatalogBackup CatalogBackup NetBackup Daily_pool |
| Credentials Credentia | Results | . Monthy_pool NetBackup CatalogBackup Offsite_pool dr_Daily_pool |
| | Clear Results | |



2. GIVING USERS RIGHTS TO USE JAVA INTERFACE:

There is a file in /usr/openv/java called auth.conf. You need to create a unix account for the person needing access and then edit the above file:

Authorizing non-root users for specific applications

Non-root users can be authorized for a subset of the NetBackup-Java administrator applications. To authorize users for a subset of the NetBackup-Java administrator applications, use the following identifiers for the ADMIN keyword in the auth.conf file: Abbreviation Description Table 12-2 auth.conf ADMIN identifiers for administrator applications

| ALL | Indicates that the user has administrative privileges for all of the applications that are listed in this table. |
|------------|--|
| AM | Activity Monitor |
| BMR | Bare Metal Restore |
| BPM | Backup Policy Management |
| BAR or JBP | Backup, Archive, and Restore |
| CAT | Catalog |
| DM | Device Monitor |
| HPD | Host Properties |
| MM | Media Management |
| REP | Reports |
| SUM | Storage Unit Management |
| VLT | Vault Management |

For example, to give a user (user1) access only to the Device Monitor and Activity Monitor, add the following entry to the auth.conf file: user1 ADMIN=DM+AM

In order for a nonroot user to modify the files that the NetBackup-Java Administration Console uses, run the nonroot_admin_nbjava script. The script changes permissions on the following files: /usr/openv/java/auth.conf /usr/openv/java/Debug.properties /usr/openv/java/nbj.conf.