
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.

Catalog recovery procedure

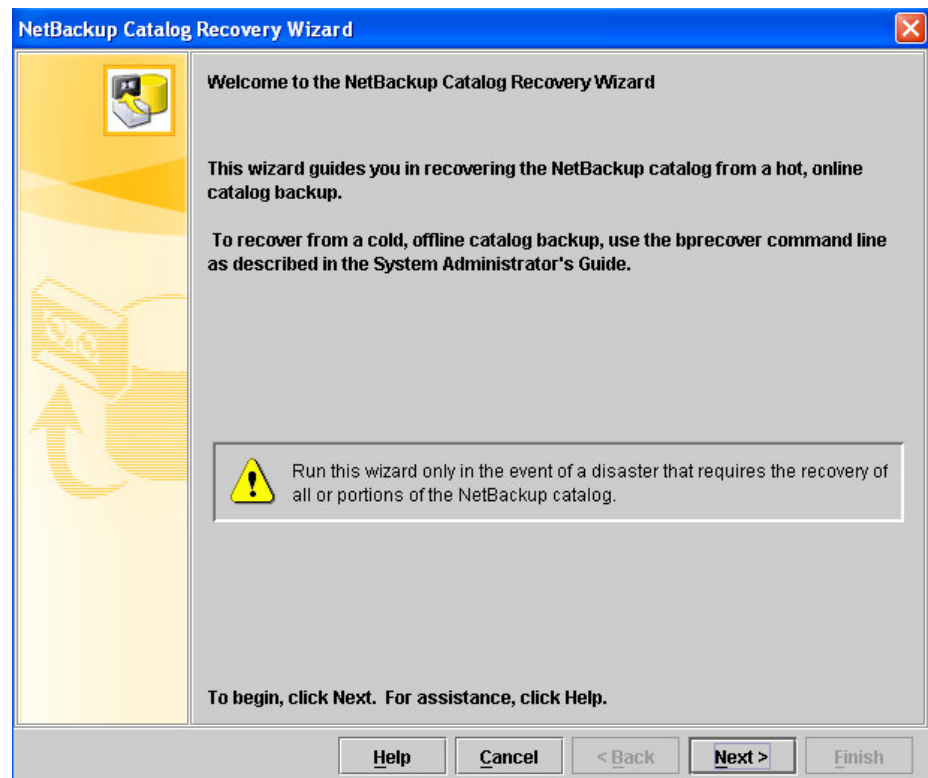
1.1.1.1 Recovery of Entire Catalog

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.

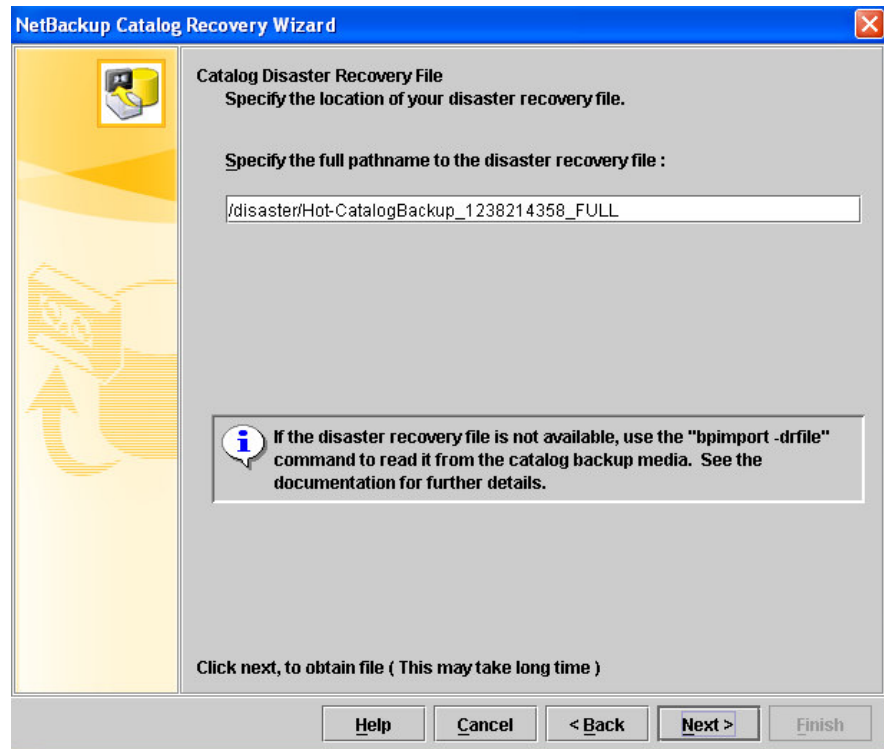
1. Prepare the media that containing the catalog backup.
2. Start the netbackup services.

```
# /usr/opensv/netbackup/bin/bp.start_all
```

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



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



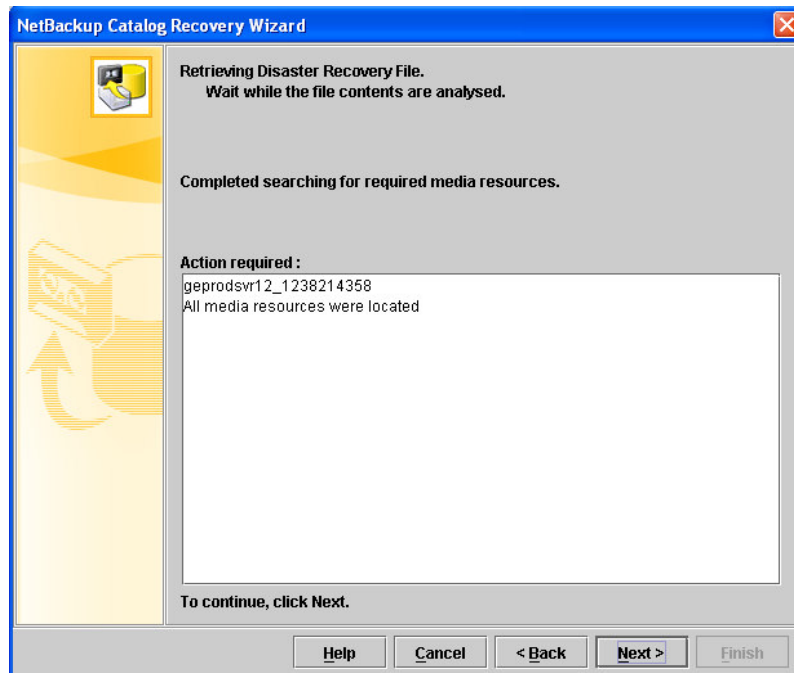
- Enter the full path name of the file to the text box. The /disaster is the directory where all recovery files are stored. The latest file can be checked from the /disaster directory.

```

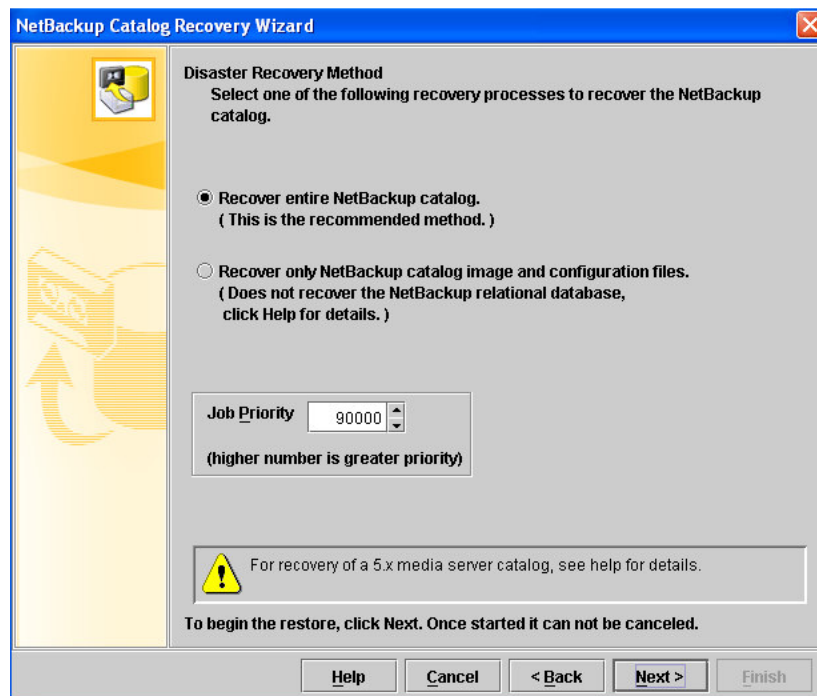
10.30.208.4 - PuTTY
root@kfhib08 # pwd
/var/tmp/CATALOGBACKUP
root@kfhib08 # ls
CATALOGBACKUPHOT_1249266366_FULL  CATALOGBACKUPHOT_1251835380_FULL
CATALOGBACKUPHOT_1249538148_FULL  CATALOGBACKUPHOT_1251921783_FULL
CATALOGBACKUPHOT_1251354117_FULL  CATALOGBACKUPHOT_1252008180_FULL
CATALOGBACKUPHOT_1251441429_FULL  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 #

```

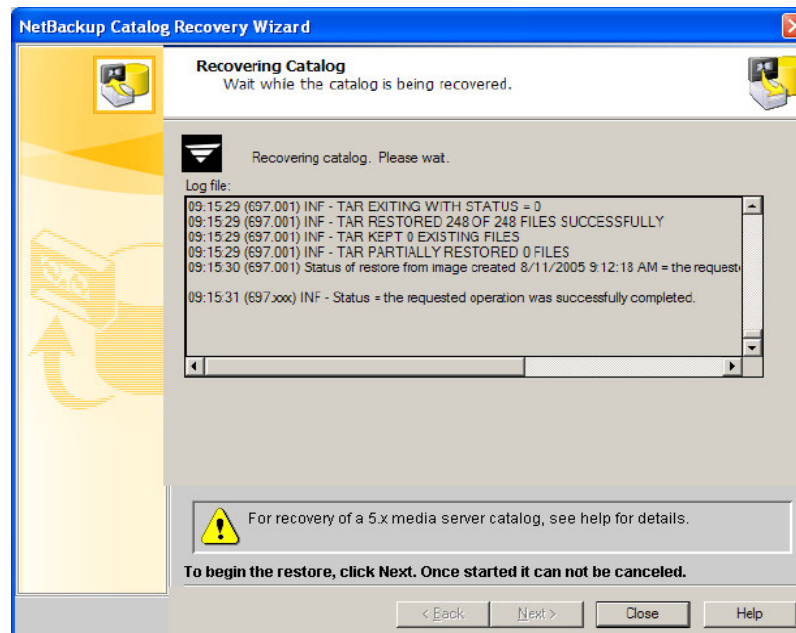
- The wizard waits while NetBackup searches for the necessary media sources, then informs you whether or not the necessary backup id of the disaster recovery image was located.



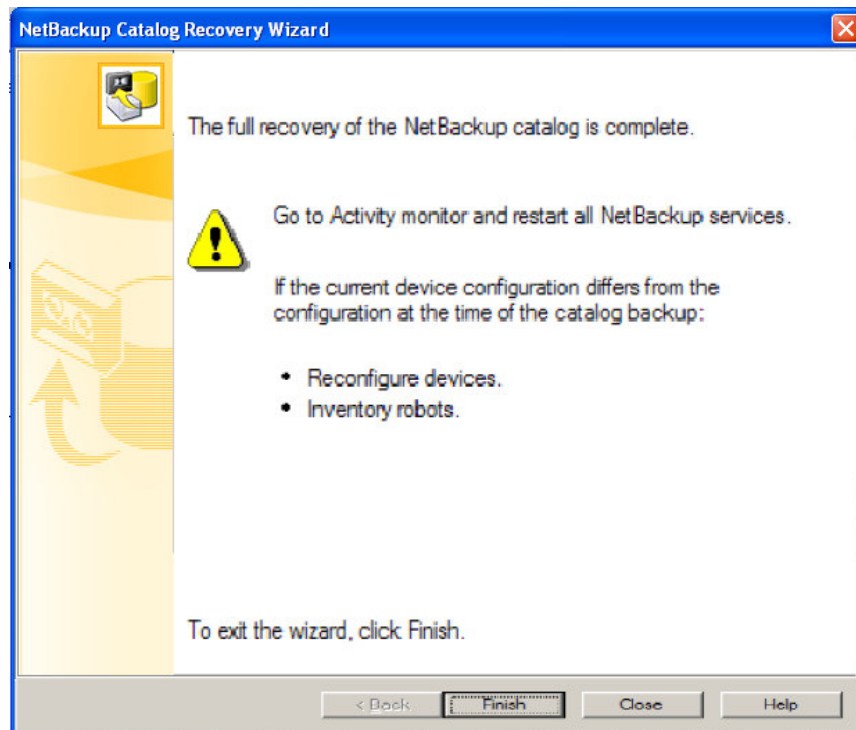
- When the required media sources are found, click Next to display the “Disaster Recovery Method” screen. The “Recover Entire NetBackup Catalog” radio button is selected.



- 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.



- 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.



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

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

```
# /usr/opensv/netbackup/bin/bp.kill_all  
# /usr/opensv/netbackup/bin/bp.start_all
```

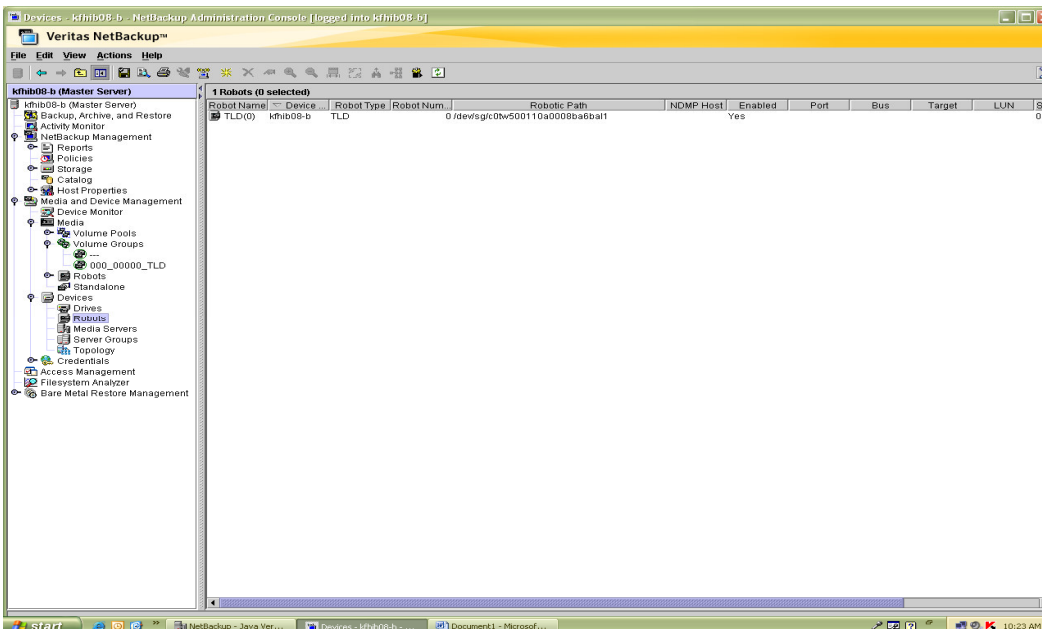
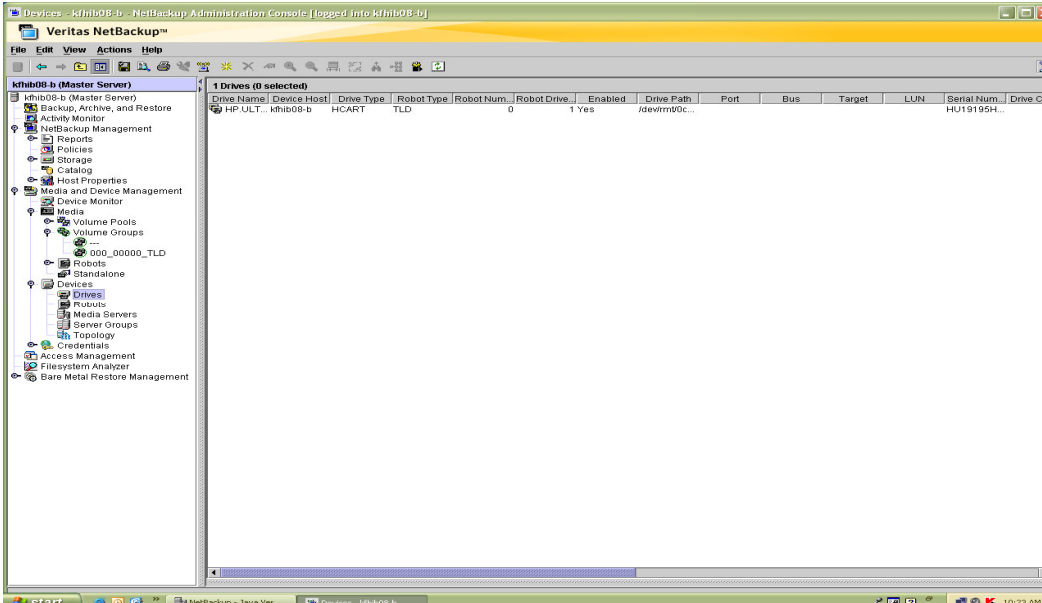
```
# /usr/opensv/netbackup/bin/netbackup start
```

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.

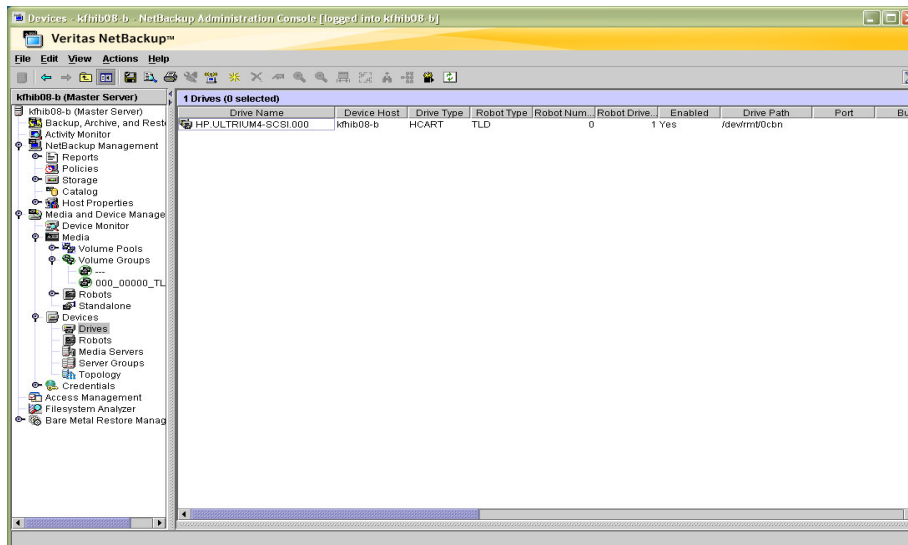
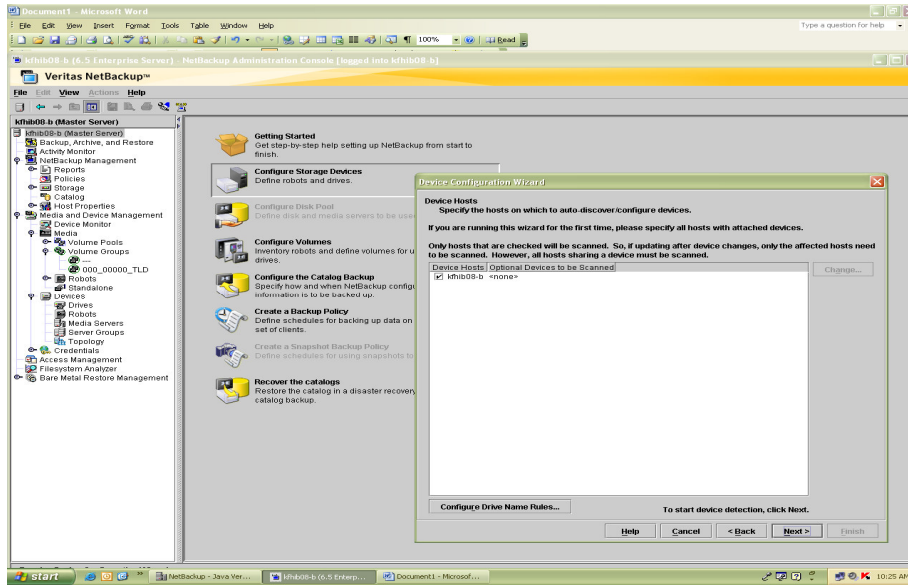
Note: this steps need to perform every time onces catalog recovery take places

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

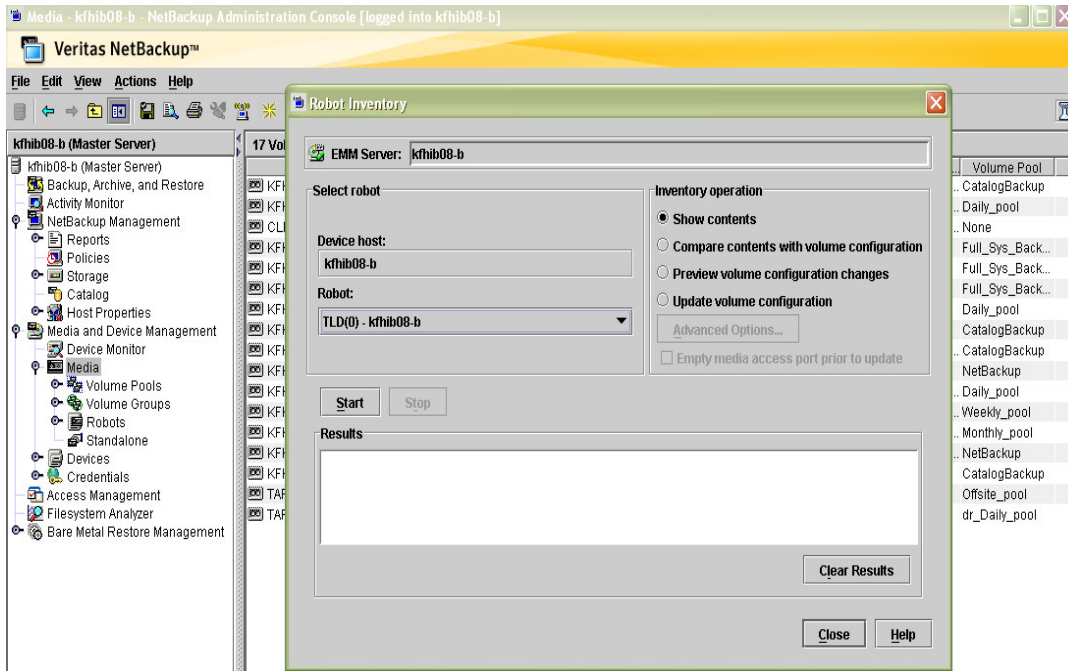


Step 2 Go to configuration Storage Devices, click on it, there will be a Welcome configuration wizard shown.

- 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,



2. GIVING USERS RIGHTS TO USE JAVA INTERFACE:

There is a file in /usr/opensv/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/opensv/java/auth.conf /usr/opensv/java/Debug.properties /usr/opensv/java/nbj.conf.