# Sample of a job aid for a network administrative task

When we were using backup tapes as our backup method, this job aid was written to provide instructions for another employee to perform the task of switching out backup tapes each week, if I was ever unavailable for the task.

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#### **Overview**

There are two tapes for each day on the weekend. The first tape backs up the home directories on the e: drive. The second tape backs up the **perforce\_depot**, **rappid\_testcases**, **transfer**, and **weekly\_reports** directories on the e: drive, in addition to a couple of others.

**NOTE:** The database (on the C: drive) for the backup software is backed up onto BOTH tapes. In order to be able to do a restore from a tape, the database must be backed up onto that tape. That way the backup software knows what files are on the tape and knows about the directory structure.

# Switching weekend backup tapes

The overall procedure for resetting the backup tapes for the following weekend is the following:

- 1. Print the job logs for each of the four weekend jobs.
  - See **Printing the job logs** on page 1.
- 2. Remove the tapes from the weekend.

**IMPORTANT NOTE:** When taking out a tape, you MUST take the tape out and then close the door to the tape drive. DO NOT put another tape in immediately after taking a tape out. The tape drive must register the removal before accepting an insert. This will be mentioned again in the appropriate step in the detailed instructions that follow.

- 3. Insert tapes to be used for the following weekend.
- 4. Mount the tape drive. This sometimes has to be done twice.
- 5. Format each of the four tapes.
- 6. Modify each of the four backup jobs for the weekend.
- 7. Select the appropriate tape for each job.
- 8. Save the job (replace the appropriate job file).
- 9. Delete the job on the **Job Queue** tab.
- 10. Add the same job back onto the **Job Queue** tab.
- 11. Make sure the job says "**Ready**."

## Printing the job logs

Follow these steps to print the job logs for the weekend jobs so there is a record of what was backed up and when for each job:

- 1. Log in as administrator on devserver1.
- 2. Open Manager.

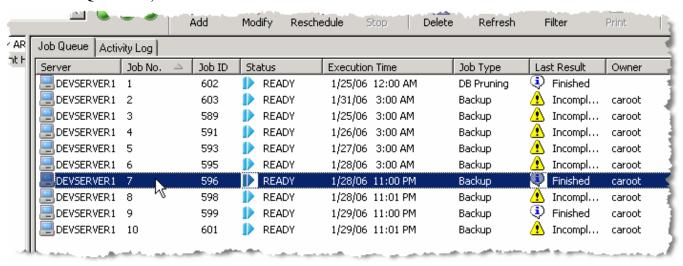
3. Click the **Job Status** link in the **Quick Start** section.



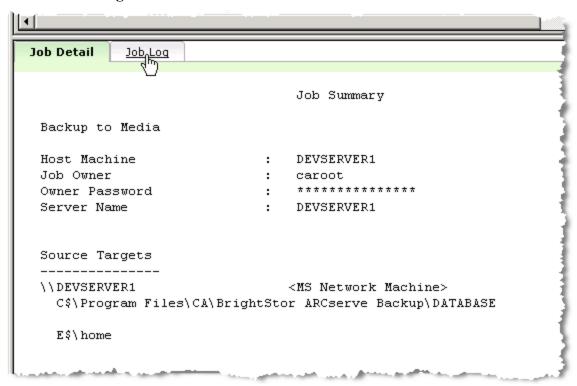
4. The status of all the jobs is listed in the right pane. The results of the jobs are listed in the **Last Result** column.

**NOTE:** If a job says **Incomplete**, it still might have completed well enough to be considered a successful backup job. One example that has been occurring lately, is when someone has WS\_FTP open some of the files are kept open. In the **Job Log**, a warning is listed saying "Unable to open file." This just means that these files were not backed up. Since they are not critical files, that is alright.

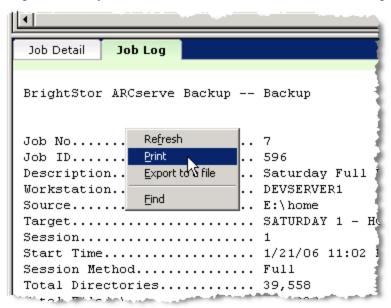
5. On the **Job Queue** tab, click **Job No. 7** to select it.



6. Click the **Job Log** tab.



7. Right-click anywhere on the tab and select **Print** from the popup menu.



8. Do not exit the software. You will need it again.

### Replacing the tapes

Now, you will work directly with the tape drive to replace the tapes.

The following symbols represent the buttons on the Exabyte:

- \* Center button
- ▲ Up arrow button
- **▼** Down arrow button
- ► Right arrow button
- Left arrow button

There are three sets of tapes for the Saturday backups and two sets of tapes for the Sunday backups. The previous Saturday backup tapes are in manila envelopes in the server cage. If there are no tapes available in the cage for Saturday, check with Joe Pelletti. Reuse the Saturday Backups package that has the earliest date written on it. The previous week's Sunday backup tapes are in the box in the server cage underneath the manila envelopes. Reuse these tapes.

Follow these steps:

- 1. In the server cage, on the Exabyte, press ▼ twice to get to the menu system.
- 2. Press ◀ and/or ▶ until you get to **Unload Drive**.

#### 3. Press **★**.

Since the tape loader is full, there will only be one slot available into which the tape can be unloaded.

**NOTE:** If this is not the case, press ◀ and/or ▶ to select a slot into which to put the tape.

It is important to remember that the numbering on the Exabyte and the number within the ArcServe Backup software is different. The following table displays the numbering for the tapes in the Exabyte and the corresponding job numbers and slot numbers within the software:

Slot # in Exabyte	Slot # in Software (Day)	Job Number(s)
1	0 (Monday)	2
2	1 (Tuesday)	3
3	2 (Wednesday)	4
4	3 (Thursday)	5
5	4 (Friday)	6
6	5 (Saturday 1 – Home)	7
7	6 (Saturday 2 – Others)	8
8	7 (Sunday 1 – Home)	9
9	8 (Sunday 2 – Others)	10
10	9 (Cleaning tape)	N/A

When switching tapes in the Exabyte, replace the tapes in slots 6 through 9 on the Exabyte. When setting up the jobs in the software, change jobs 5 through 8 and associate each of those jobs with slots 7 through 10 respectively.

- 4. Press the \* button to select the slot into which the tape will be unloaded from the tape drive.
- 5. Press ◀ to or ▶ move to the **Export Cartridges** option.
- 6. Press **\***.
- 7. Press  $\triangleleft$  or  $\triangleright$  to select slot 6.
- 8. Press **\***.

The door to the tape loader slides open.

9. Remove the tape.

IMPORTANT NOTE: When taking out a tape, you MUST take the tape out and then close the door to the tape drive. DO NOT put another tape in immediately after taking a tape out. The tape drive must register the removal before accepting an inserted tape.

- 10. Press any key to close the door.
- 11. Press ▲ to let the Exabyte update the inventory.
- 12. Repeat steps 5 through 11 for slots 7, 8, and 9 to remove the other tapes.
- 13. Press ◀ or ▶ to select the **Import Cartridges** option.
- 14. Press  $\triangleleft$  or  $\triangleright$  to select slot 6.
- 15. Press **\***.

The door to the tape loader slides open.

16. Put the first Saturday tape (Saturday 1 – Home) into the tape loader right-side up and backwards.

**IMPORTANT:** The side without the label (or without a spot for a label if there is no label) should face out. The label side has a switch allowing you to indicate whether you want to record (**REC**) on the tape or **SAVE** the tape. This is the side that goes in first.

- 17. Press **\***.
- 18. Press ▲ to let the Exabyte update the inventory.
- 19. Repeat steps 13 through 18 to insert the other three tapes.

**NOTE:** When you insert the last tape, the inventory will update automatically.

20. Close and lock the server cage.

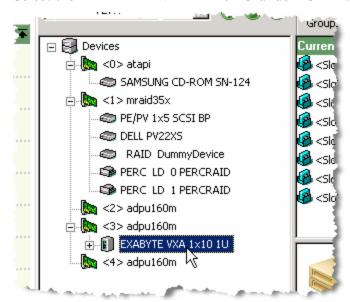
#### Mounting the tape magazine

The tapes in the tape loader must now be mounted. Follow these steps:

1. In the ArcServe Backup software, click the **Device** link in the **Quick Start** section.



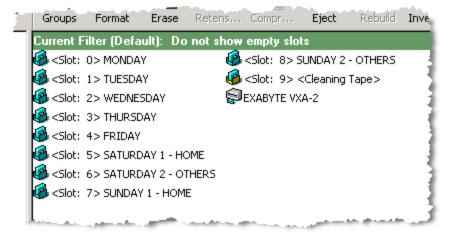
2. Select the **EXABYTE VXA 1x10 1U** under <3> in the **Devices** tree.



3. In the lower right-hand pane, click the **Mount/Dismount Magazine** link.



It will take a while (maybe about 45 minutes) for the magazine of tapes to be mounted.

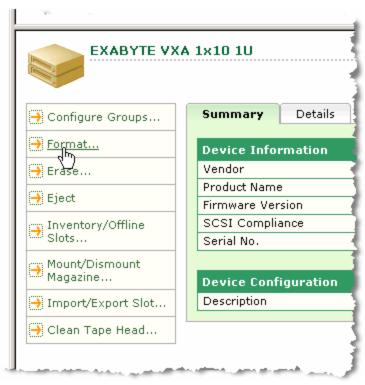


If any of the slots in the upper right-hand pane say "Updating...", then the mount was not completely successful. If this is the case, click the **Mount/Dismount Magazine** link again.

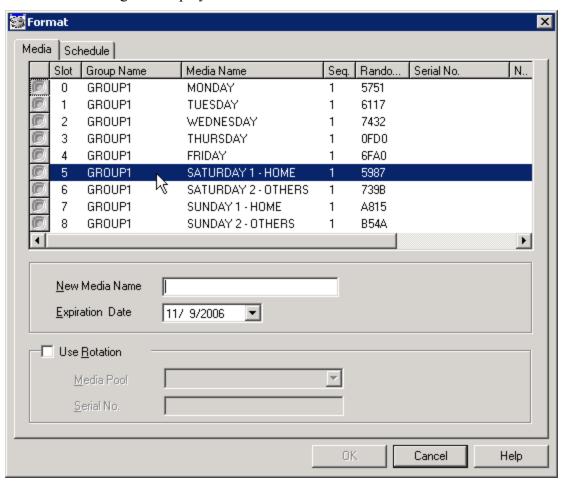
#### Formatting the tapes

Once the magazine of tapes is mounted correctly, the four tapes you inserted must be formatted. Follow these steps:

1. While the **Device** screen is still active, click the Format link in the lower right-hand pane.



The Format dialog box displays.



- 2. Click on Slot 5, the **SATURDAY 1 HOME** tape.
- 3. Type saturday 1 Home in the New Media Name edit box.
- 4. If the **Expiration Date** is past or coming up soon, change it to at least a year out from the current date.
- 5. Click **OK**.
- 6. Repeat this procedure for the other three tapes, selecting the appropriate slots and renaming the media with the same names previously used.

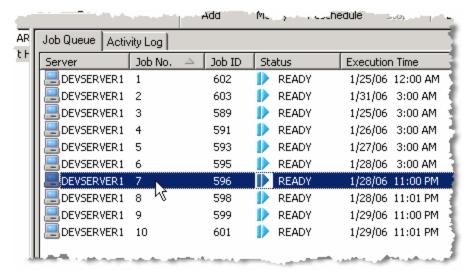
#### Updating the job scripts

Once you have formatted the tapes, the job scripts have to refer to the newly formatted tapes. Follow these steps to update the job scripts to refer to the formatted tapes:

1. Click the **Job Status** link in the **Quick Start** section.



2. Select **Job No. 7** on the **Job Queue** tab.



3. Click the **Modify** button on the toolbar.



4. Click the **Destination** tab on the **Modifying** screen.



5. In the upper right-hand pane, select **Slot:** 5> SATURDAY 1 – HOME.



6. Select **Save As** from the **File** menu.

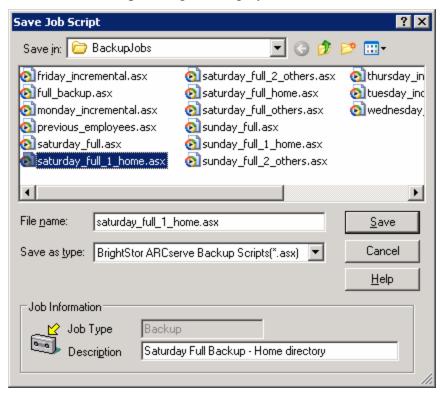


The Security and Agent Information dialog box displays.



#### 7. Click **OK**.

The **Save Job Script** dialog box displays.



- 8. Select the **saturday\_full\_1\_home.asx** file.
- 9. Click Save.

The job script is saved with the reference to the newly formatted tape.

- 10. Repeat this procedure for each of the other three tapes saving over the corresponding job scripts.
  - saturday full 2 others.asx → SATURDAY 2 OTHERS
  - sunday full 1 home.asx  $\rightarrow$  SUNDAY 1 HOME
  - sunday full 2 others.asx  $\rightarrow$  SUNDAY 2 OTHERS

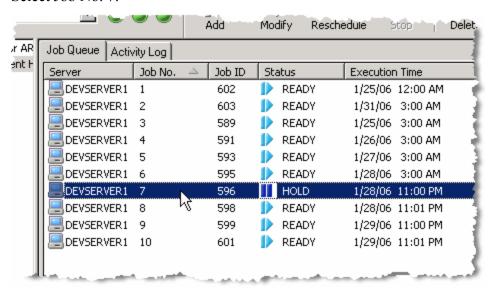
#### Updating the jobs in the Job Queue

Once you have updated the job scripts to use the newly formatted tapes, follow these steps to delete the old jobs and add the updated jobs to the job queue:

1. Go back to the **Job Status** screen.

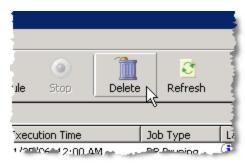


2. Select Job No. 7.



**NOTE:** The **Status** on the job you modified is "**HOLD**." This is normal.

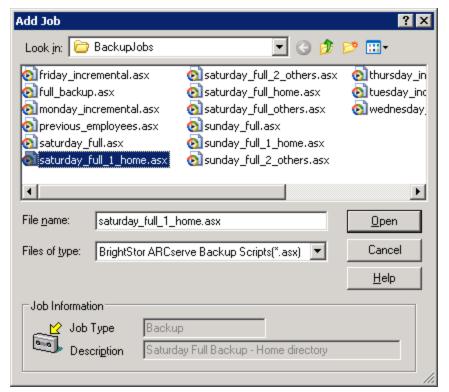
3. Click the **Delete** button.



4. Click the **Add** button to add the updated job script to the **Job Queue**.



The **Add Job** dialog box displays.

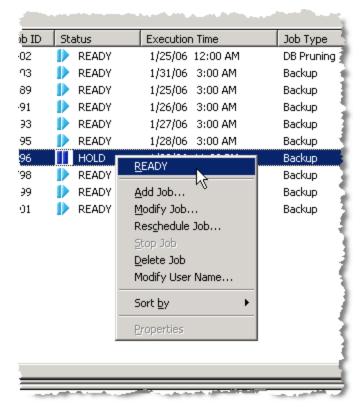


5. Select saturday\_full 1 home.asx from the list of job scripts.

6. Click **Open**.

The job is added to the list of jobs in the **Job Queue** in the correct order.

7. Make sure the **Status** for each of the four weekend jobs reads "**READY**."



8. If the **Status** is not "**READY**," right-click on the job and select **READY** from the popup menu.

#### Checking the tape IDs

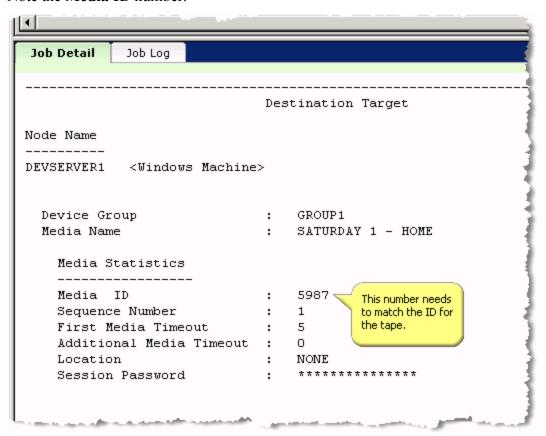
The last step in this process is to check that the tape IDs in the device match the tape IDs saved in the job scripts. This ensures that the backups should run properly. If the IDs don't match for a job, the software will not be able to find the correct media for the job.

1. Click the **Job Status** link in the **Quick Start** section.



- 2. Select **Job No. 7** on the **Job Queue** tab.
- 3. Click the **Job Detail** tab in the lower right-hand pane.
- 4. Scroll down to the **Destination Target** section.

5. Note the **Media ID** number.



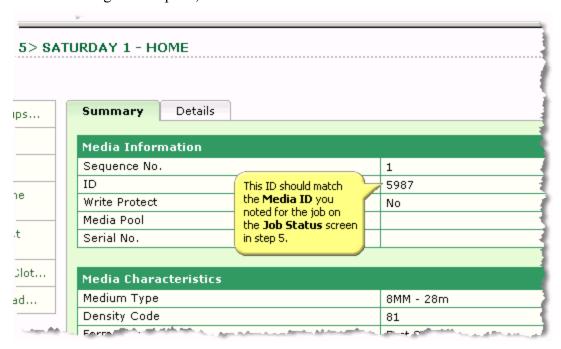
6. Click the **Device** link in the **Quick Start** section.



7. Select **Slot: 5> SATURDAY 1 – HOME** in the upper right-hand pane.



8. In the lower right-hand pane, note the **ID** in the **Media Information** section of the **Summary** tab.



9. If the two IDs match, the job should complete successfully.

**NOTE:** If the IDs do not match, repeat the **Updating the jobs in the Job Queue** procedure on page 15. If the IDs still do not match after completing the procedure, reformat the tape (see **Formatting the tapes** on page 9) and then update the job in the **Job Queue** (see **Updating the jobs in the Job Queue** on page 15) again. Remount the tape magazine (see **Mounting the tape magazine** on page 7) if necessary.