CA ARCserve Backup r12 - Disk to Disk to Tape Option

Backup can be an overload to your environment if you have huge volumes of data to backup on a regular basis. Organizing and managing the storage space and backup is a major challenge for system administrators. Performing backup in stages allows backup to be completed more quickly by backing up to the fastest possible media. CA ARCserve Backup r12 Disk to Disk to Tape option enables you to control staging during the backup process by allowing you to use disk or a tape as a staging area.

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<th>Benefits</th>
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<td>CA ARCserve Disk to Disk to Tape option utilizes two different devices as staging media, Disk or a Virtual Tape Library (VTL). CA ARCserve also lets you set policies for Full and Differential/Incremental backups for different staging devices. CA ARCserve Disk to Disk to Tape option backs up data to a temporary staging area, a File System Device (FSD), or a VTL and then based on selected policy options, migrates (copy) the data to the final destination or automatically purge the data from the staging area after a specified duration. CA ARCserve provides an alert notification system to send messages about migration events that occur during the course of staging operations.</td>
<td>• Fast backups, by writing data from multiple sources to the same File System Device simultaneously. • Smart and fast restores • Simultaneous restores • Reduced hardware maintenance • Encryption support • Copy Image Tracking • Policies based movement of data from staging media to the final destination.</td>
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Install/Configure

Select the Disk to Disk to Tape option during CA ARCserve installation to install the Staging feature.

A Disk to Disk to Tape option license is required to be able to utilize the full capabilities of CA ARCserve Backup r12 staging feature. If encryption is to be utilized with the Disk to Disk to Tape option, a CA ARCserve Backup Enterprise Module license is required. This license not only provides for the encryption of data during the migration phase, but allows for multistreaming and multiplexing.

How to Enable/Disable Staging

To enable staging, from the CA ARCserve backup manager, click Staging Tab; check Enable Staging Option.

To disable staging, uncheck the Enable Staging Option in Staging Tab from Backup Manager or using File System Device Group Configuration which can be accessed from the Backup Manager by selecting Configure File System Device Groups from the pop-up menu. When you disable staging, data is backed up directly to its final destination media, rather than being backed up to the FSD/VTL.

How the feature works

You can submit a staging backup job using the Backup Manager or the command line utility. CA ARCserve Backup r12 staging feature contains specific options to control the behavior of CA ARCserve Backup during the backup process.

CA ARCserve Backup provides you with the flexibility to disable staging on any specified day of the week if you are using rotation or GFS rotation disk staging jobs. Also, the Pause Data Migration option lets you temporarily stop data migration from the FSD to its final destination media.

CA ARCserve lets you encrypt backup data when you are copying the data to its final destination media. This capability is beneficial when you are copying data from a VTL or a library that does not support encryption to a library that supports encryption. This capability ensures that your backups are as fast as possible and the tapes that you need ship to an off-site storage location are encrypted.
**Disk to Disk to Tape Staging Option**

![Diagram of Disk to Disk to Tape Staging Option]

Using the Disk to Disk to Tape option, you can backup data to a temporary staging area, a FSD; the data is then migrated from the FSD to a final storage media.

A staging job can divide your backup job into several sub-jobs that run simultaneously. Disk to Disk to Tape option uses simultaneous streaming to send multiple streams of data to the FSD. Since the data is split among several different streams, backup jobs with simultaneous streaming enabled can be completed significantly faster than regular backup jobs.

CA ARCserve enables you to restore data while the backup image is still on the FSD; making restore faster. During the backup-to-FSD process, if the FSD gets full or reaches the specified maximum threshold, the Disk to Disk to Tape option allows you to create makeup jobs which back up the data directly to the final destination.

**Frequently Asked Questions**

Q: Is the Disk Staging Option available for Linux platforms?
A: Yes, Disk Staging Option is available for Windows, UNIX and Linux platforms.

Q: Can I get reports on my disk staging jobs?
A: Yes, CA ARCserve can generate report on the disk staging jobs.

**Summary**

The CA ARCserve Backup r12 Disk to Disk to Tape option enables performing backup in stages to complete backup more quickly by backing up to the fastest possible media, and also allows you to encrypt and consolidate data during Migration.

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