

Storage Decisions Presentation Download

Backup Technologies Track:

Backup on a Budget


W. Curtis Preston
Executive Editor, TechTarget
Independent Backup Expert

In this presentation, you'll learn about some of the non-traditional alternatives that IT shops might consider when funds are tight.

Sponsored By:




symantec™

 STORAGE **Storage Decisions**

Backup on a Budget


W. Curtis Preston

Executive Editor, TechTarget
Independent Backup Expert

 STORAGE **Storage Decisions**

Agenda

- What is "on a budget?"
- What costs money?
- Open-source backup alternatives
- Cloud backup: cheaper?

 STORAGE **Storage Decisions**

What is "On a Budget?"

- Isn't everybody on a budget?
- Storage is often the most expensive part of IT
- Backup is often the most expensive part of IT
- Are you getting the squeeze?
- This isn't free backup
- It's saving money on some things so you can spend them on others

What Costs Money?

- **You**
 - Simply put, people are the biggest recurring expense in a backup system
 - Reducing complexity and increasing reliability = reducing cost
- **Media**
 - The black hole of backup
 - Buying it, moving it, storing it, etc.
 - Disk and deduplication changing these rules
- **Software/hardware, inc. maintenance**
 - Underutilized hardware is a huge expense
 - Most hardware also requires software licenses
 - Using what you have well is the secret

Open Source Backup

- Most companies' backup requirements are *not* rocket science
- Many companies' requirements can be met by inexpensive and/or open source products
- Allows you to save money on software and spend on hardware

Caveat "Emptor"

- **Don't expect "enterprise" features**
 - Dozens of features you're used to simply will not be there
 - Don't expect any of your other tools to integrate to it; asking the question gets you funny looks
 - Occasionally, you may be surprised in a good way
- **Open source projects can have factions, no central mission**
- **Don't forget hidden costs**
 - Does the code require customization?
 - Remember what's most expensive
- **Investigate the tool's community**
 - Some communities very helpful, including coding help
 - Others are somewhat "dead" and aren't moving it forward

AMANDA

- Grand-daddy of open source products
- Developed years ago for University of Maryland (Advanced MarylAnd Disk Archiver)
- Basically a scheduler/media handler for standard/native tools (e.g. dump/tar)
- Thinks/acts like "traditional" backup
- Huge, very active user community
- Now supported by Zmanda
 - Fixed several long-running issues
 - Added support for MySQL, SQL Server, Exchange, Sharepoint, Oracle
 - Windows products supported by VSS!
 - Installation, tech support
 - Supports backing up to Amazon's S3

Bacula

- Roams the datacenter at night and sucks the vital essence from your computers
- Full backup replacement with agents for many platforms. Does not use native backup tools
- No database agents yet
- Thinks/acts like "traditional" backup
- Huge, very active user community/forum
- Commercial installation, configuration support provided by Bacula systems
- Contributing to the community, but not as quickly or strongly as Zmanda

BackupPC

- Uses rsync or tar to incrementally transfer new files to backup server
- Acts most like near-CDP, not traditional backup
- Files stored in tree structure in *native format*
- Fully-redundant files are eliminated and replaced with links
- Full web interface
- Can download files via http, or restore via rsync/tar using GUI
- Large, active user community



SYMANTEC IS
**STORAGE
SOFTWARE.**

OPTIMIZE BUDGETS. INCREASE VALUE.

MAKE THE MOST OF YOUR EXISTING STORAGE AND IT BUDGET.

Veritas NetBackup 6.5 from Symantec offers new features such as award-winning VMware protection; patent-pending granular application recovery for Microsoft® Exchange and SharePoint® environments; and flexible data deduplication technology that improves backup speeds and reduces storage consumption.

- Eliminate tape and reduce storage consumption by 10–50x with Veritas NetBackup PureDisk®
- Reduce backup hardware costs in data centers and disaster recovery sites with new automation features
- Shrink or eliminate backup windows
- Improve VMware backup and recovery and reduce storage consumption by 50 percent

Take the next step toward next generation data protection with the NetBackup platform from Symantec. Whether you're upgrading from a previous version or architecting a new environment, Symantec can make the journey easier and faster with its solutions and services. Learn how you can optimize your data protection environment today.

Turn Insight into Action – Request a call from Symantec at go.symantec.com/storagedecisions or visit go.symantec.com/netbackupinfo



Other Open Source

- **Rdiff-backup**
 - Rsync always transfers whole files if they change
 - Rdiff-backup uses rsync algorithms to transfer only changed blocks in changed files
- **Others**
 - Afbbackup
 - BOBS
 - KBackup
 - Psyncx
 - REOback
- **Links to all products on backupcentral.com**

Cloud Backup: cheaper?

What is Cloud Backup?

- Backing up to "cloud" of servers across the Internet
- Can be your servers, but typically cloud services are provided by a service company
- Two forms
 - Your own backup to cloud storage (e.g. Zmanda to S3)
 - Actual cloud backup service (e.g.

Who is Cloud Backup Right for?

- Companies who do not have a core-competency in backup
- Companies that want to completely outsource this "problematic" part of IT
- Larger companies that want to back up remote offices without managing a new backup product
- Companies with a "reasonable" change rate that lends itself to deduplication
- Notice I didn't say companies that want to save money

Who is Cloud Backup *Not* Right for?

- Companies trying to back up Terabytes of data from a single location
- Companies with aggressive RTOs for the data they will back up to the cloud
- Companies who aren't fully aware of their own internal costs

Isn't Cloud Backup Cheaper?

- It can be, but it often isn't
- It can be if a significant portion of your cost is coming from labor
- Some pricing very inexpensive and some ridiculously high
- You must be fully familiar with your own costs to see if cloud backup would be cheaper

What Are My Costs?

- **Software/hardware maintenance**
- **Buying, maintaining & upgrading**
 - Backup servers
 - SAN
 - Disk & tape subsystems
 - Backup software, clients
- **Monitoring & reporting on backups**
- **Offsite storage**
- **Power and cooling**

Is Cloud Backup Safe?

- **Some vendors are, some aren't**
- **Must get real customer referral**
 - On the Internet, no one knows you're a vendor
- **Must learn about infrastructure**
 - Do they have multiple sites?
 - What have they done to ensure your backups remain accessible?
 - What are they doing to increase security?
 - Evaluate "reasonable"
 - Run a professional vulnerability scan against them (e.g. www.nessus.org).

Backup Concierge Service

- **Product briefing executive summaries**
 - Quick summaries of vendor announcements and which you should – or shouldn't – care about
- **"Nonanalyst" product evaluations**
 - *End-user-sponsored* analysis of product capabilities
- **Head-to-head product testing results**
 - Real-world tests in real datacenters
- **Bi-Weekly conference call with backup gurus**
 - Discuss backup world live with me and other gurus
 - Hear what's going on in other people's environments
- **Backup gurus on retainer**
 - Got a question about a product's capabilities, or your backup strategy? Ask the gurus at no additional charge.
- **Quarterly backup system check-up**
 - "Mini-backup audit" designed to identify negative trends and to provide guidance for future decisions
- **Email concierge@backupcentral.com** for more info

Thank you!

Resources from our Sponsor



- ▶ [Request a call from Symantec now!](#)
- ▶ [For more information visit:](#)

About Symantec:

Symantec is a global leader in providing security, storage and systems management solutions to help consumers and organizations secure and manage their information-driven world. Our software and services protect against more risks at more points, more completely and efficiently, enabling confidence wherever information is used or stored.