

PENNSTATE



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Backup Open Discussion

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Backup - Time, Scope, Location

- Time - How often the backup occurs
 - Manually, On Change, Hourly/Daily/Weekly...
- Scope - What data gets backed up
 - 1 file, Group of files/folders, Entire volume
- Location - Where the backup data lives
 - Archive, External Hard Drive, File Server, Cloud

Baked In.

- Straight up file copy by user
 - Manual labor
 - Not reliable
 - Bad idea

Baked In.

- TAR
 - Scriptable
 - You set the scope
 - You manage the destination

Baked In.

- RSYNC
 - Scriptable
 - You set the scope
 - Manages the destination
 - Smart and Fast, especially the deltas

Baked In.

- Time Machine
 - Easy
 - Automatic
 - OS X Server Friendly
 - Not very scriptable or configurable

Baked In.

- HDIUTIL/ASR / Disk Utility
 - Whole volumes, block by block or file by file
 - Scriptable
 - Monolithic

Baked In.

- Software RAID 1/5
 - Instant, on each write
 - Transparent to user
 - Doesn't typically leave machine

Commercial, but cheap

- SuperDuper, CarbonCopy Cloner
 - User-friendly, schedulable whole disk backup
- ChronoSync
 - Whole disk backup or file by file

Commercial, not so cheap

- Retrospect
 - Single client backup to Managed server and unlimited client

Commercial, really not cheap

- Tivoli Storage Manager
 - Industrial strength
 - Can support thousands of clients
 - Requires small army to support

Cloud-based

- Dropbox
 - Free for 2 GBs plus referral space
 - Instant synchronization of data to cloud
 - Syncs to multiple clients + web interface
 - Limited storage (\$99 for 50 GB, \$199 for 100 GB)

Cloud-based

- CrashPlan
 - Free for backup syncing to other local machines
 - \$50 per year for 1 machine, \$120 for up to 10
 - Automatic
 - Backup sets

Use a combination

- For example...
 - Time Machine for hourly, SuperDuper for daily, TSM for weekly
 - Dropbox for critical files, Time Machine for local whole volume, CrashPlan to the cloud
 - RAID 5 your server, RSYNC for live backup

Discuss!