

Backing Up Our Apple Devices

with Dave Hamilton



Who are we?

- Dave says: I'll go first
 - Mac Observer - Over 20 years
 - Mac Geek Gab Podcast - celebrating our 14th year
 - Geek... forever!

Who are we?

- Your turn
 - Mac owners?
 - Less than one year?
 - More than 5 years?
 - Do you back-up?

What you'll learn

- Why we backup
- What to backup
- Different types of backups
- How (and how often) to backup
- How to make sure you're backups will help!

First... why?

What are the benefits?

- Start with the obvious:
you don't want to lose data
- You also don't want to lose time
- Save you if hardware dies/malfunctions
- Save you when hardware goes missing/stolen
- Save you if YOU make a mistake

What should I back up?

- Anything you're not willing to lose
 - Pictures, Movies, Data created by others
- Anything you don't want to recreate
 - Work documents, presentations, spreadsheets
- Your system files, Applications, and Settings
- Anything else?

Definitions of a Back-up

- Automated
- Verified
- Restorable

Time Machine

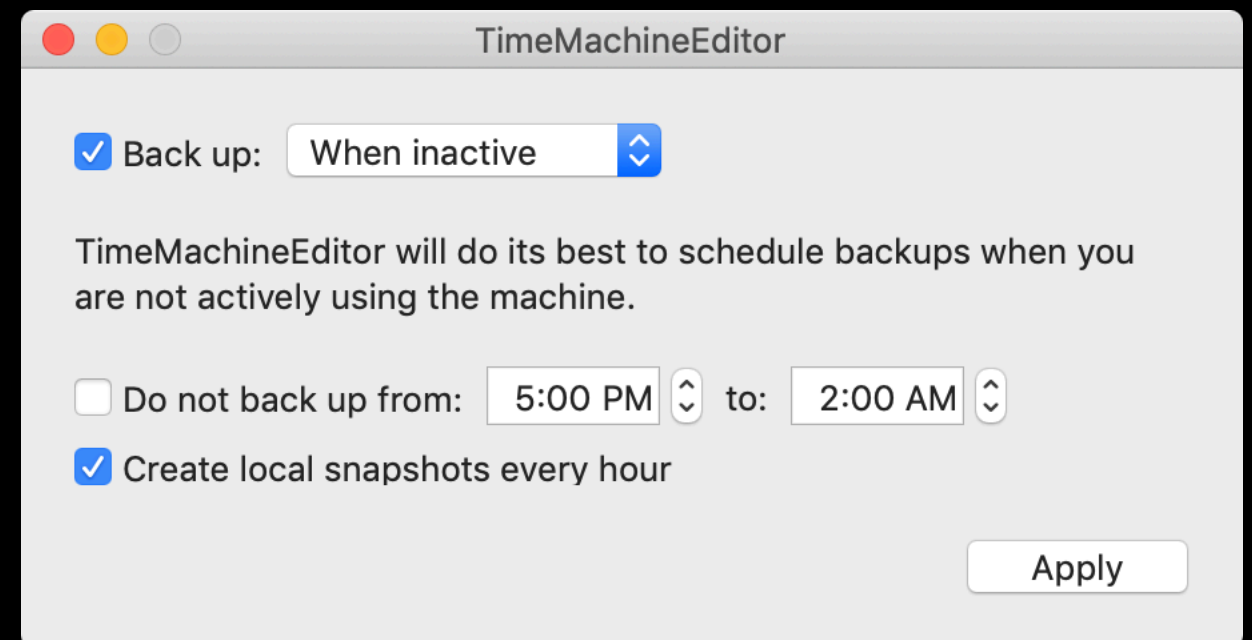
- Hourly, Daily, Weekly, Monthly
- Requires additional drive as destination
 - Internal
 - External
 - Network
- To Restore, you have to copy files back to original/other drive
- Pros: Automated, Incremental, Easy, Free
- Cons: Non-bootable, Not (really) Verified



Cool Stuff Found

TimeMachineEditor

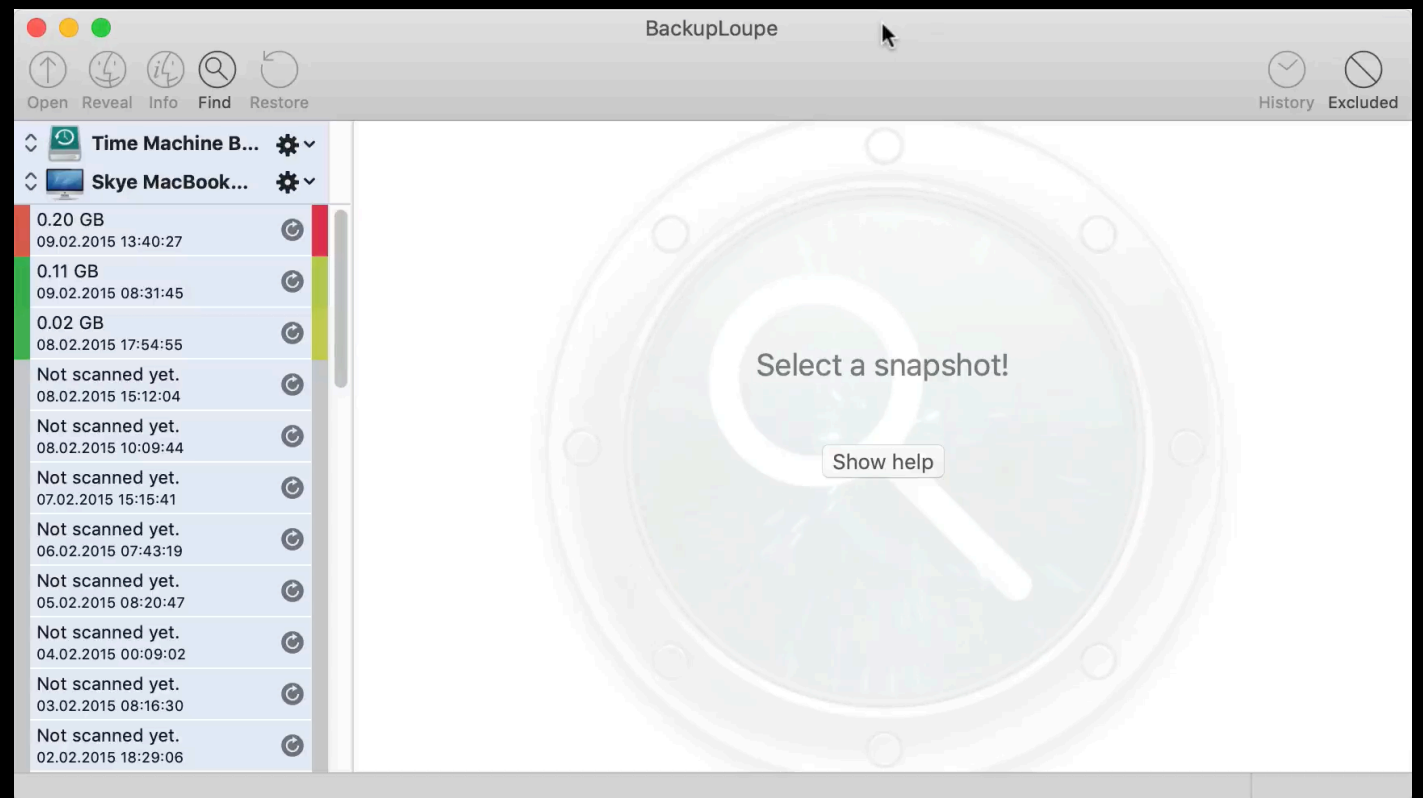
- Time Machine Backs Up Every Hour
- Can slow down your machine
- <http://timesoftware.free.fr/timemachineeditor/>
- Must Turn Time Machine Off
- Demo->



Cool Stuff Found

BackupLoupe

- Time Machine is rather secretive
- If only you knew WHAT was being backed up...
- BackupLoupe from <http://soma-zone.com/> \$5
- Demo->



SuperDuper & Carbon Copy Cloner



- Clone Backup to disk, folder, or disk image
- Requires additional drive (internal, external)
- Can be time-scheduled, or when device connected
- Smart Update, incremental copy
- Restore: copy back OR boot from backup
- SD: US\$27.95, <http://www.shirt-pocket.com/>
CCC: US\$32+, <http://www.bombich.com/>
- Pros: Bootable backup
- Cons: not versioned

“Cloud” Backups

- “Cloud” is simply some server somewhere else
- Pros:
 - Protects against fire/theft.
 - Don’t need a destination drive
 - Can backup from (almost) any location with Internet
- Cons:
 - Need Internet
 - Speed (1000 GB @ 10 Mbps upstream = 10 days).
 - Be aware of security.
 - Cost: Monthly/Annual subscription

“Cloud” Backups

- Two types of Cloud backups
- Immediate
 - Something always running, syncs as soon as file is created/changed
- Timed
 - Like Time Machine
 - On a schedule
 - Simply saves to the Cloud instead of locally
- Some more secure than others

SYNC IS NOT BACKUP

- Except, well, kinda it is.

iCloud Drive as Sync



- iCloud Drive can Sync anything you put in its folder: “iCloud Drive” in Finder sidebar
- Everything’s available from all iCloud-connected Macs and iOS devices
- Also can specify to have your Documents and Desktop Folders Synced

DropBox

- Immediate Backup
- “Freemium” model
 - 2GB Free, pay for more
 - 1TB = \$99/yr, 2TB = \$199/yr
- Designate one folder, contents of which are synced
- Share sub-folders with other users
- Access files from the web
 - Version Control
- Sync amongst all your Macs/Windows/iOS Devices
- Secure until a subpoena
- <http://www.dropbox.com/>



Cloud Sync Comparison

Cloud	Free	200GB	1TB	2TB	More
iCloud Drive	5GB	\$36		\$120	
Dropbox	2GB		\$99	\$199	\$720 ("Unlimited")
Google Drive	15GB	\$30		\$100	\$1200 (10TB)
<u>box.net</u>	10GB		\$120		\$540 (Unlimited)

Timed Cloud Backups

Lots o' Options

- All pricing annualized
- BackBlaze: Unlimited for \$72
- Carbonite: Unlimited for \$72
- Arq Cloud: 1TB for \$60



Arq Backup



- Arq: Backup to Almost Any Cloud.
- Buy the software for \$50, bring your own cloud.
 - Amazon S3
 - Wasabi
 - Backblaze B2
 - Google Drive
 - Dropbox
- <https://ArqBackup.com>

Time Capsule Alternatives

- The reality: Time Machine is much more reliable on **direct-attached storage**.
- Network storage still works, just not as easily.
- One caveat for all: Time Machine will eat 100% of the storage you show it.

Network Attached Storage

- Device shared on your network
- Multiple users
- Always on
- Often RAID or other redundancy
- Often Additional features
 - Streaming music, movies, file sharing, more

“Smart” NAS Options

- ~~Time Capsule - \$275 for 2TB~~
- WD MyCloud - 4TB for \$170
 - Auto-backup for computer and phone
- Buffalo LinkStation 4TB for \$190
 - Similar, adds some more “NAS” type features like Bittorrent client and DLNA server

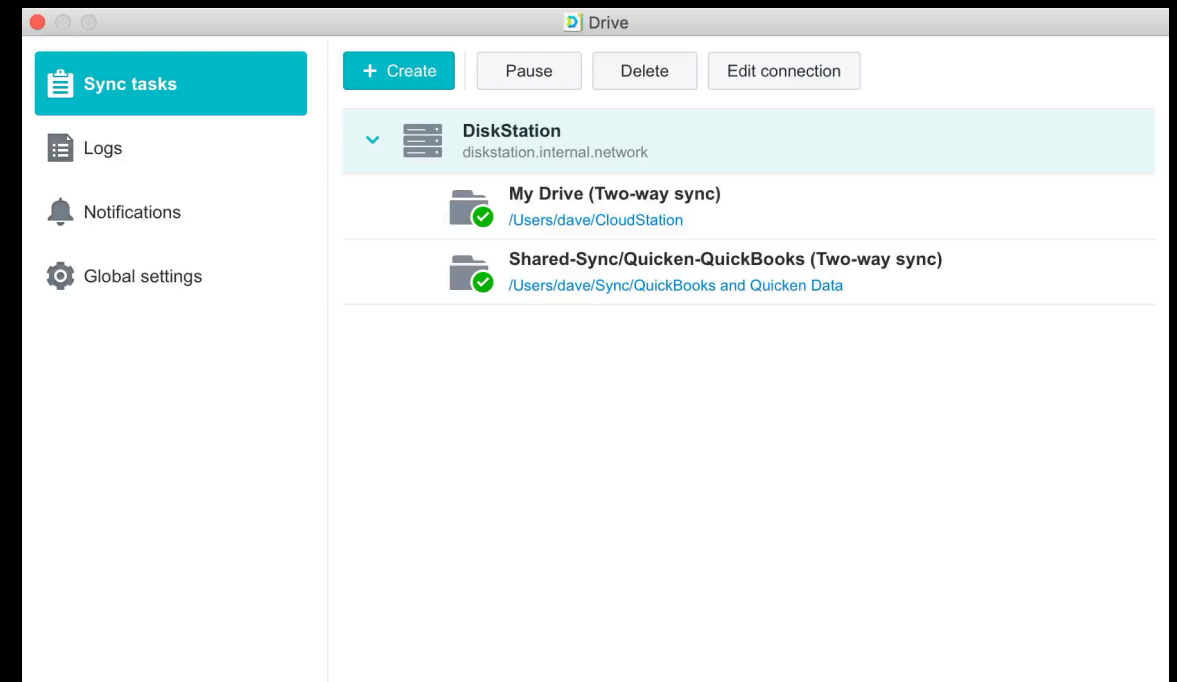
Smart RAID/NAS

- Redundant disks, easily configurable
- Synology 2-bay=\$170, 4-bay= \$370
- QNAP 2-bay=\$170, 4-bay=\$260
- Drobo 5N2 5-bay=\$455
- Comes empty, Multiple drives required
- Two 4 TB drives at \$109 ea net 3.8 TB storage
- Protected against failing drive(s)
- Can upgrade storage by adding/replacing drives at any time
- Hot-swappable



Private Cloud - Synology Drive

- Just like Dropbox, except you host it yourself.
- Works local and remote.
- Synology Drive is one Example
- It's free, so long as you have a Synology DiskStation.
- Demo ->



Private Cloud - Resilio Sync

- No server required. Syncs peer-to-peer.
- Used to be called “Bittorrent Sync”
- Works local and remote.
- Basic is free, for selective controls, \$60 one-time fee (\$99 for families)

What does Dave use?

- Time Machine -> Synology DiskStation
- Nightly (automated) Carbon Copy Cloner clone
- Synology Drive (all my user docs)
 - Backup & Multi-computer Sync
- Backblaze to the Cloud
- Quarterly to disk image on DiskStation
- Also DiskStation via CCC for Movies, Music, Photos
- Individual Application Backups

Individual Application Backups

- Some apps back up their own data
- Quicken, Quickbooks, BusyCal, More.
- Benefit: Easy, controlled access.
- Bigger benefit: restores are generally flawless and painless.
- Demos ->

Dave's Policies and Practices

- Automated or it doesn't happen!
- Practice Restoration *before* you have a problem.
- Calendar a Monthly Checkup.
 - Confirm they've been running
 - Test a Restoration

iOS – Backup

- Apple provides two methods of backing up iOS devices
- iTunes for local backups.
- iCloud for cloud backups.
 - 5GB isn't enough, so you'll almost certainly need more.

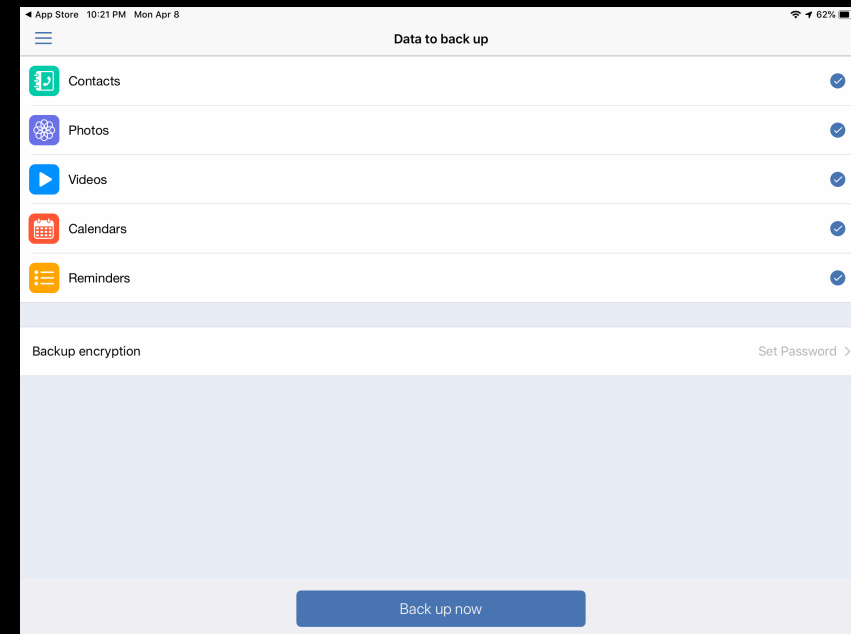
iOS – Backup - iMazing

- Better way to manage local iOS backups.
- Selective restore.
- iMazing mini = Free. Just backup and restore.
- iMazing = \$45 for full version, manage apps, export data, more.
- Demo->



Acronis True Image Mobile

- Cloud backup for iOS Devices
- Limited to data that is accessible to apps
- Contacts, Photos, Videos, Calendars, Reminders



What's Your Tolerance?

- How much data can you afford to lose?
 - This determines your backup frequency.
- How much downtime can you tolerate?
 - Consider restoration time of Time Machine vs. Clone
 - vs. a Spare computer?

Wrap Up/Q&A

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