



# Backup

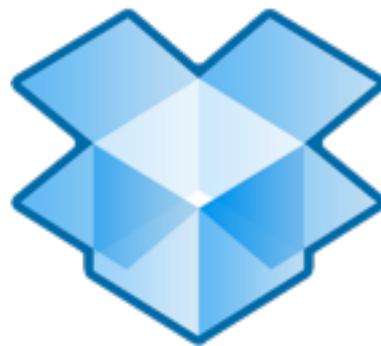
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# Why Backup

- Questions to ask:
- Can you live without it?
- Can you replace it?
- Cost of backup to worth of content.
- Crashes happen, never at a convenient time.
- Everything is moving to digital, so we need digital solutions for recovery.



# Sync: Is it a backup?



- Google Drive, Sky Drive, Dropbox, iCloud and other cloud services like them are great.
- Their primary function is synchronization and collaboration.
- Unlike Batman, data is corruptible and can easily be deleted.
- Not truly built for restoration, but can definitely be part of the equation.

# Archive: Is it a backup?

- DMG: Great for storing files in one enclosure for long period of time.
- Archive: Great for quickly collecting a set of files and keeping them all together.
- Not a backup, but part of the equation.



# RAID: Is it a backup?



Great place for a backup. Absolutely part of the solutions.

# Time Machine



I have Time Machine built into OS X. Set it and forget it, i'm done right?

Yes....No.

# Backup: A philosophy

- Hardware breaks, not if but when.
- Whether it's theft or left do you have a copy somewhere else.
- Prepare for a rainy day, make sure you're covered.
- It's not really about the backup, it's ultimately about the restore.



# THIS is a Backup

- Should be a duplicate copy of your data.
- Should be off the physical machine.
- Should be part of a disaster recovery plan
- Should happen in a reasonable time
- Should be able to get you “Back Up” no matter what the circumstance.

# Backup: A Triumphant Trio

Local



Offsite



Network



# Local



- Local: A drive physically attached to the product.
- Recommend USB 3.0 or Thunderbolt.
- The first level of your disaster recovery strategy.

# Local- What to use



- Time machine
- Crashplan
- Carbon Copy Cloner
- Super Duper
- Disk Utility

# Local- Pro's & Con's



## PRO:

- Fast setup
- Fast Recovery

## CONS:

- Local drives can fail, need a plan B.
- Acts of God affect products and attached peripherals including the backup.

# Network

- Network Backup: A second device or machine on the same “network” of the device that needs backing up.
- Wired or wireless: Wireless is great for one off’s. Wired is best if mass amounts of data are involved or multiple devices start to play a factor.



# Network-What to Use

- Another Mac or PC on the network.
- Time Capsule
- Airport Extreme with Attached Drive
- NAS (Network Attached Storage)



# Network-Pro's and Con's

## PRO:

- Fast(ish) restore
- Less wires (ish)
- Not attached to your machine



## CONS:

- Network drives can fail, need a plan C.
- Hungry Hungry Hippo. Not enough space after time.



# Offsite

- Offsite: Not on location and not in your region.
- Recommend a service with a good track record.
- Ideally handles the first two as well. One to rule them all.
- Should provide reporting and seed drive program.



# Offsite-What to use

- Crashplan+
- Carbonite
- Mozy
- Dolly Drive



# Offsite-Pro's and Con's

## PRO:

- Recovery when in a pinch
- Managed by someone else

## CONS:

- Slow (Potentially)
- Not in your control



# Backup: Top 10 Things

**#1: Reliable software**

**#2: Storage plans that meet your needs**

**#3: Stellar reporting tools**

**#4: An approachable backup application**

**#5: Simple recovery**

**#6: Secure file transfer**

**#7: 24/7 support**

**#8: Free trials**

**#9: Version tracking**

**#10: E-mail alerts**

\*From [Erik Eckel](#), Tech Republic



# Backup: Review

- Sync is great but better with a backup
- Backup is really about the restore
- Put your eggs in multiple baskets
- Test your backup and make sure it's doing its job.