

Storage and Protecting Oneself: Backing up, Archiving and Restoring Data

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Backup is not Sexy!

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Customer's list of spending priorities

- New Computer Hardware
- New Software
- More Storage
- Better Chairs, New Coffee Machine...
-
- Backup



Why Backup?

- It saps resources from my computer
- What if someone can see my data?
- Never had a problem before
- I pay a premium for better hardware



Risk Mitigation

- Understand the Risks
 - Customers:
 - Interview them
 - Allow them to understand
 - Allow them to accept the Risks
- Get signoff



Real Cost of a Terabyte

- \$100 <- 1 Spindle
- \$250
- \$500
- \$1000 <- SSD
- \$2500
- \$8000+ !!!!??



Most Expensive Cost?

Labor!



What's worse than not having a backup?

- Thinking you have a backup!
- KNOW that you have a Backup by testing Restores!



Environments

- Test
- Production





“I don’t always test my backups,
but when I do it’s in production”

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Separate and necessary

- Redundancy
- Backup
- Archive
- Disaster Recovery



Redundancy

- RAID is not backup or archive by itself
 - Can be a useful tool for a Backup or Archival system

Archive

- Backup <-Short Term
- Archive <-Long Term



Archiving

- Simple local Archiving Solutions
 - Automator Actions
 - Scripts
 - Hardware Based Mirrors



Backup

- Short term Insurance Policy against:
 - Accidental Deletion
 - Hardware Failure
 - Other Disasters



Backup Media

- Tape
- Cloud
- Optical
- Disk
- Flash



Don't put all your eggs into one basket!

- Direct connected online only solutions
- Combination Solutions
- Back up your cloud data!



Restoring

- Test your Restores!
- How long will it take to Restore?
 - 1 File?
 - All Data???



Backup Software Solutions

- ATempo Time Navigator
- BakBone
- TimeMachine
- Carbon Copy Cloner
- Others..



Scripting

- Types
- Benefits
- Drawbacks

Scripting Types

- Automator Actions
- AppleScript
- Shell Scripts (/bin/bash et al.)
- Others..

Scripting Benefits

Channel your inner control freak!



Scripting Drawbacks

It's (MOSTLY) all up to you!



Special Considerations

- XSAN
- Databases
 - FileMaker
 - MySQL
 - CMS
 - FinalCut Server



Document IT!

- Process and Procedure
- Logs
- Don't put off dealing with failures

