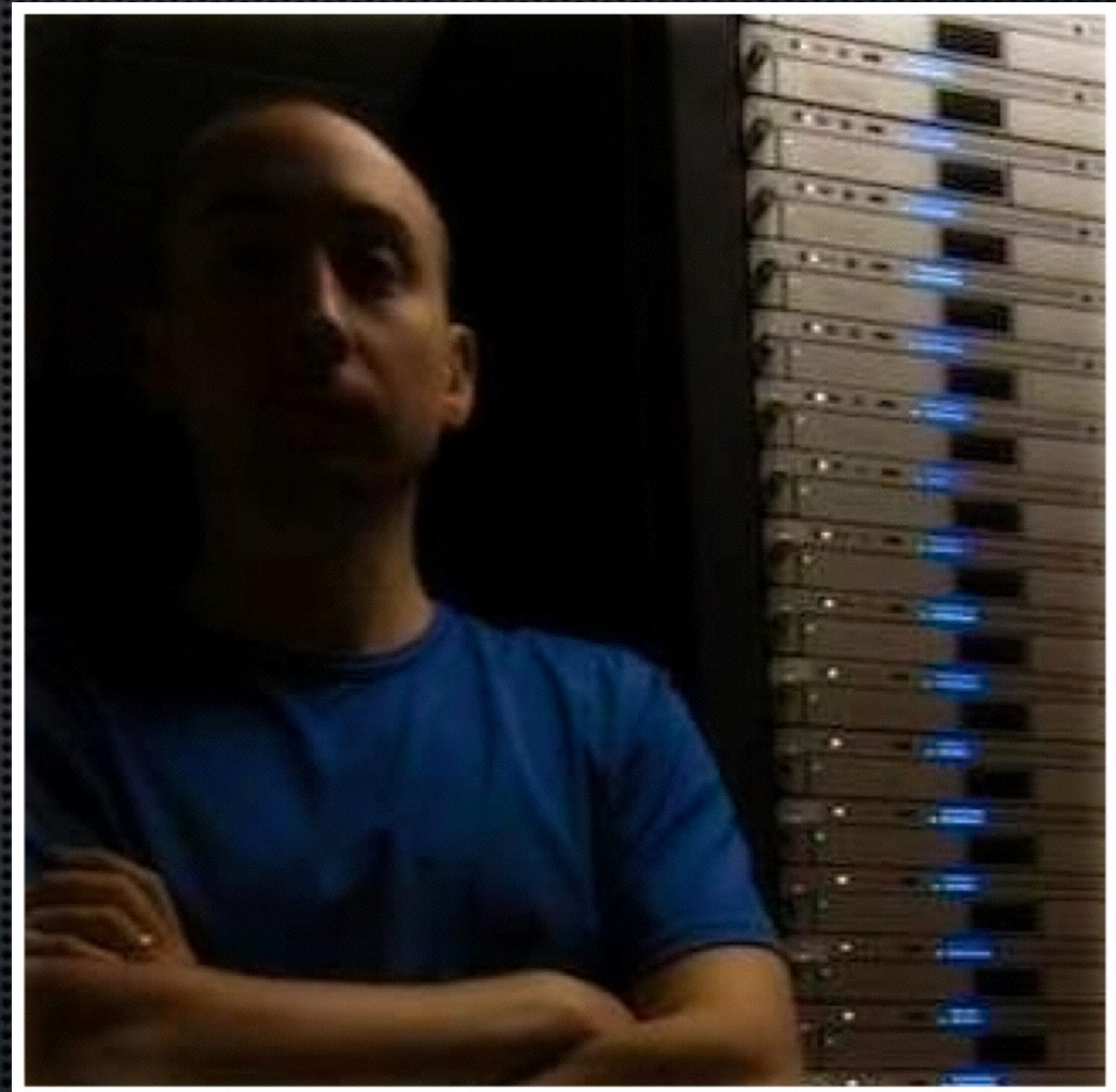


All Your Backups

Stories by Mat X

Mat X

- 14 years in IT.
- 9 years in VFX, Film and Post
- Xsan and other storage systems



Sanity Check

1. Single backup is not enough
2. Never trust any one system
3. Be paranoid
4. Prepare for the worst
5. Ask dumb questions
6. Test. Restore. Test.
7. Investigate
8. Be paranoid

The Rules

1. Automatic backup process
2. Multiple stages/copies
3. Include all required files for production and business
4. Change media/technology (disk/tape)
5. Relocate/Off-site storage
6. Test restore proces

3-2-1 Rule

Might be the easiest to remember:

3 copies of each important file,

2 different media (disk, tape),

1 copy stored in another location.

Islands of Doom

- Media professionals, but not so unique
- Everyone using FCP X and making movies



Islands of Doom

- Where's your stuff?
- "My stuff is here."
- "There."
- "Everywhere!"
- "Okay, I don't know where my stuff is!"

Islands of Doom

- No backup
- I guess your stuff is not very important then?
- No disaster plan
- No more business
- You just can just redo it all? No problem!

Islands of Doom

Initial problems:

1. RAIDs everywhere.
2. Archive to Blu-ray
3. Sneaker net
4. Enterprise IT

Islands of Doom

Drowning in Drives:

1. Drives and RAIDs.
2. No organization.
3. No centralization
4. No backups
5. No sanity



Islands of Doom

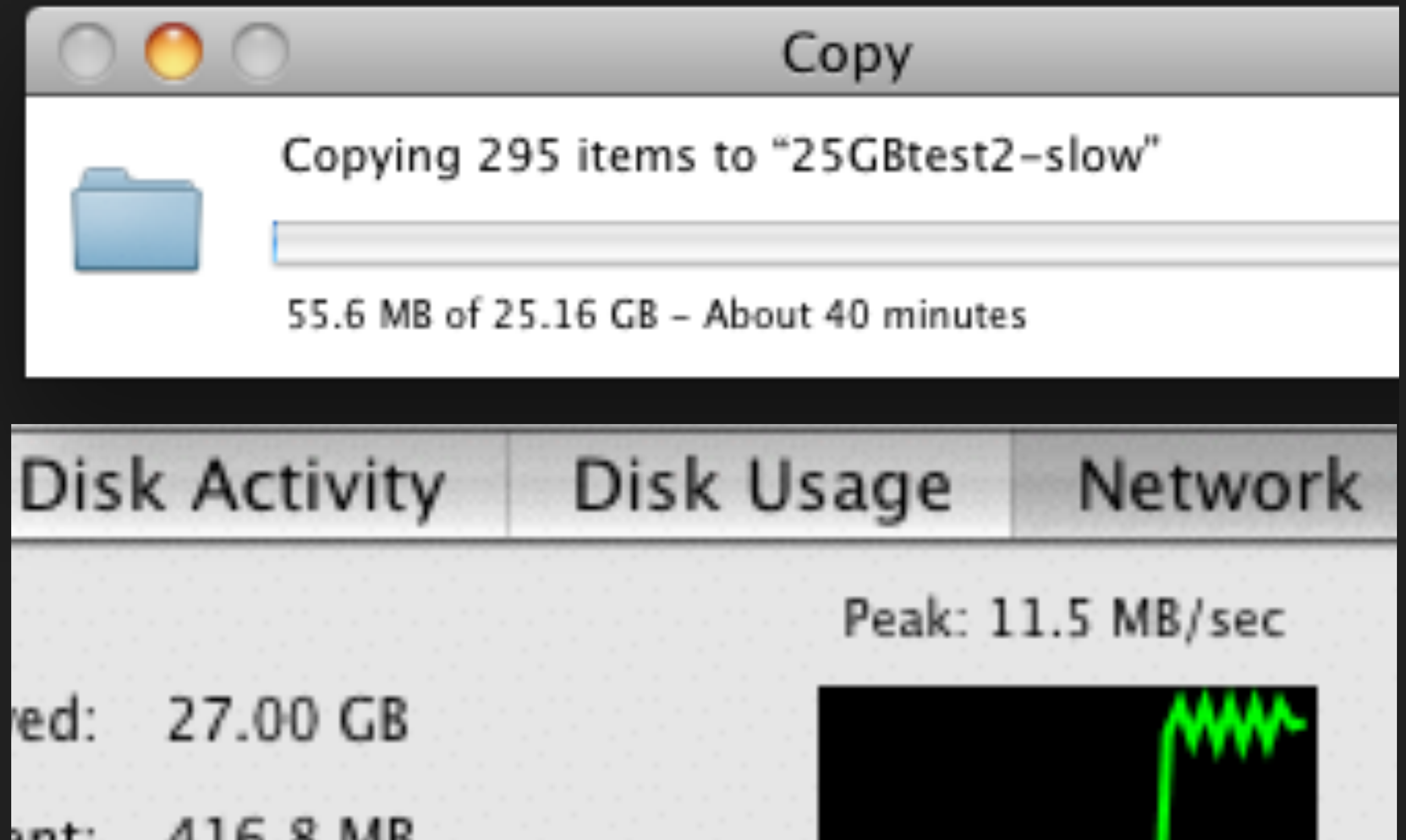
Drowning in Drives:



Islands of Doom

Sneaker Net:

1. Fast Ethernet
2. USB2 drives
3. Duplication
4. Time lost



Islands of Doom

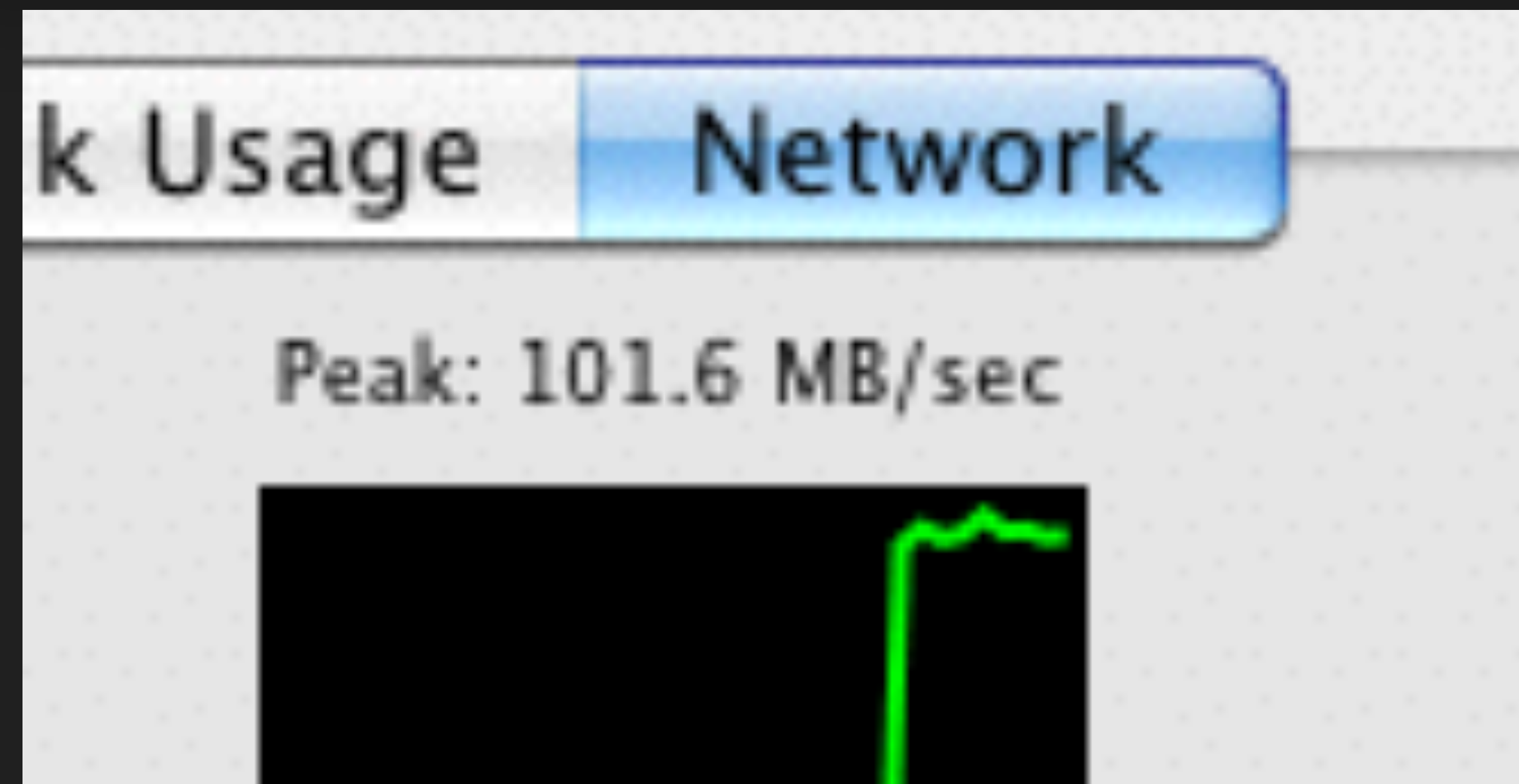
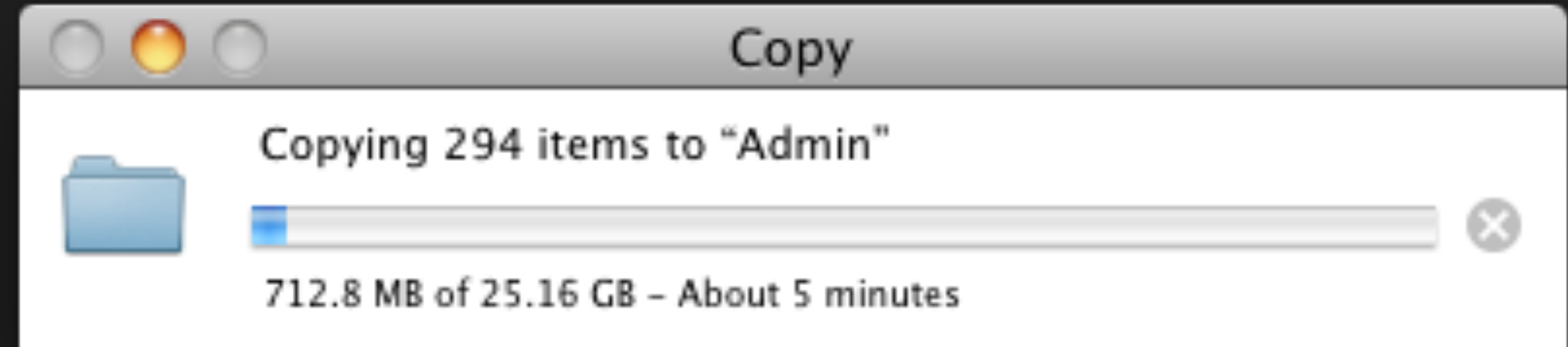
Mat X solution:

1. Backup of internal drives
2. Differentiate between backups & archives
3. SAN volume
4. Backup SAN to tape (Archiware P5 Backup)
5. Backup SAN to disk (Archiware P5 Synchronize)
6. Archive projects to tape (Archiware P5 Archive)
7. Backup internal drives (Backup2Go and Time Machine)

Islands of Doom

Mat X solution:

1. Gigabit Ethernet
2. Backup (CCC, TB)
3. Mac Mini + Server
4. Promise Pegasus
5. Archives + Backups



Islands of Doom

Mat X solution:

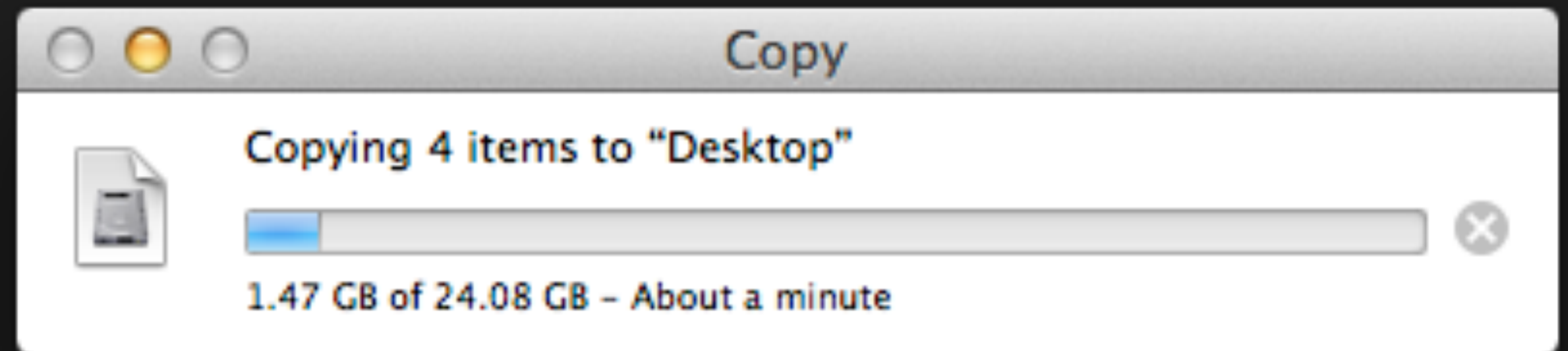
1. Set up Xsan
2. Fibre Channel
3. Structure
4. Tape backup
5. Disk backup



Islands of Doom

Mat X solution:

1. Set up Xsan



Islands of Doom

Mat X solution:

2. New Mac Pro



Islands of Doom

Mat X solution:

3. Thunderbolt - Fibre Channel



Islands of Doom

Sync:




Islands of Doom

DAM Tape:


CANTEMOPORTAL™

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Search 


The items have been successfully added to the collection
[PresSTORE](#)

How_to_setup_a_workstation_Ba...

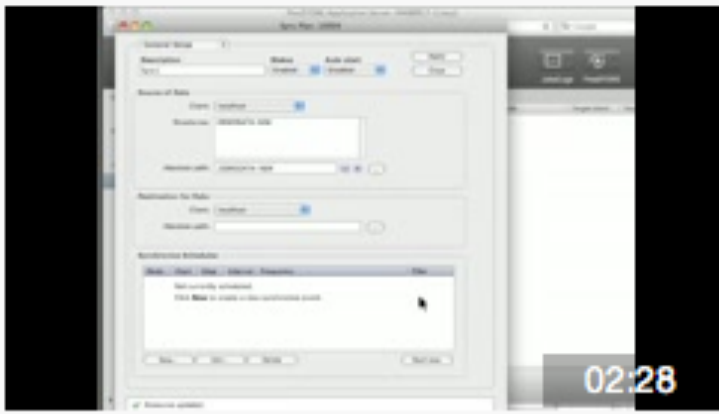


03:00

Added: Nov. 14, 2012, 6:45 a.m.
ID: VX-4




How_to_setup_a_Sync_with_P4...




02:28

Added: Nov. 14, 2012, 6:43 a.m.
ID: VX-3




How_to_setup_a_server_Backup ...




02:54

Added: Nov. 14, 2012, 6:43 a.m.
ID: VX-2


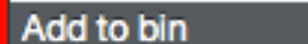


Cantemo-FCPXIntegration_Beta...



00:44

Added: Nov. 14, 2012, 6:42 a.m.
ID: VX-1



Islands of Doom

1. Install new iMac and new Mac Pro workstations
2. Mothball old Mac Pro and spare parts.
3. Set up with legacy FCP 7



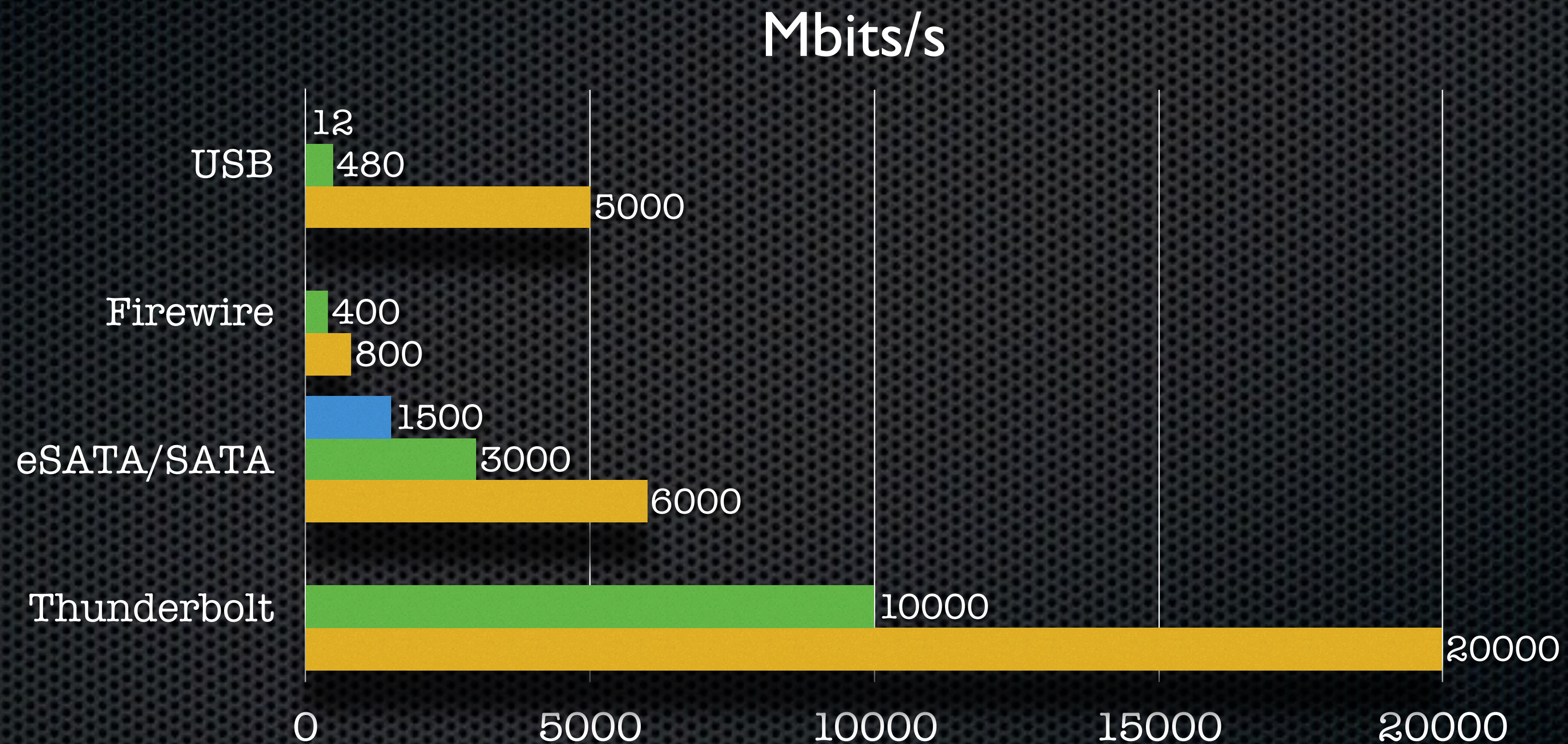
Backups Overview

- Unique client aspects
- Technical solutions
- All your backups
- Review of 3-2-1 rule

Backups Overview



Bus Speeds & Performance

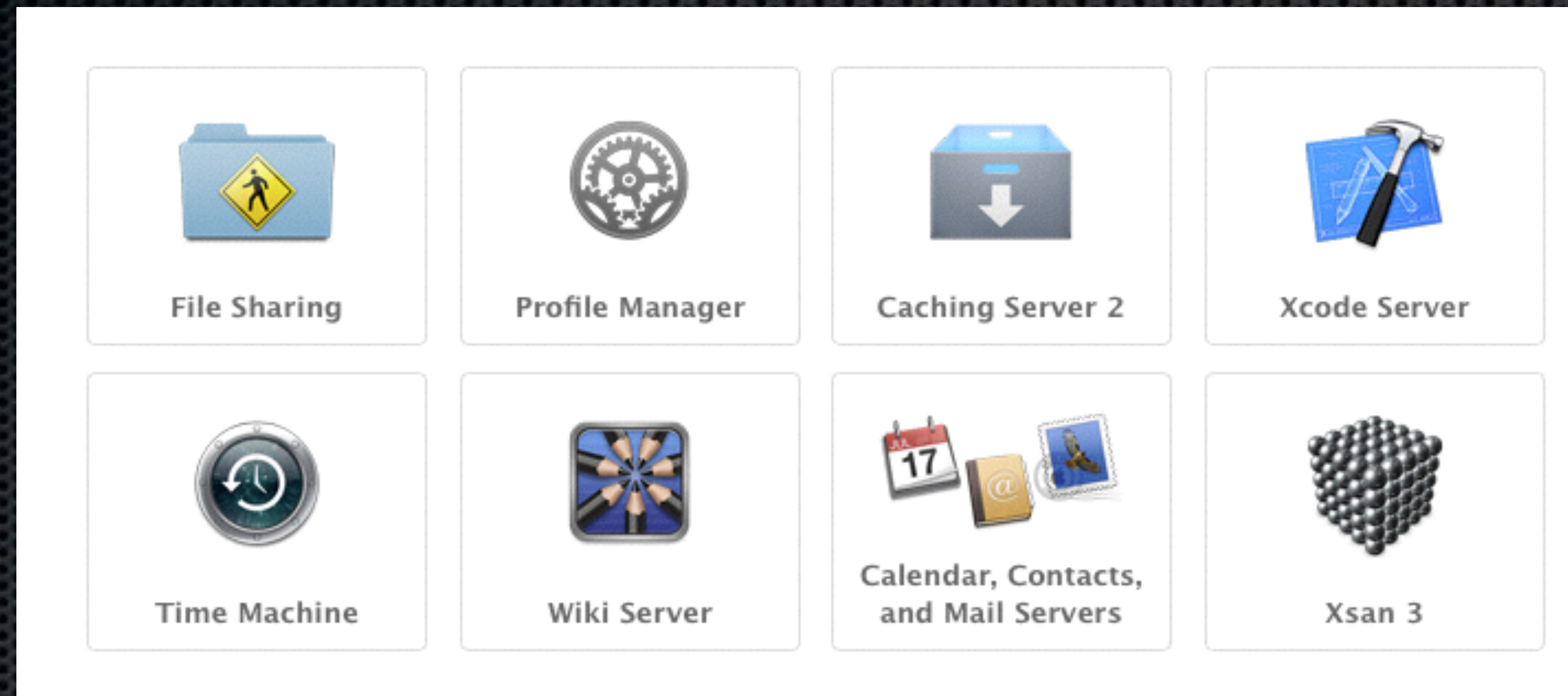


How Fast is that really?

- Faster storage:
 - Mac Mini Server HD - 100MB/s
 - SATA SSD drive - 350MB/s
 - Macbook Air Flash Storage - 700MB/s
 - Fibre Channel 8GB - 850MB/s
 - Mac Pro Flash Storage - 1GB/s
- Faster Networking:
 - 1GbE - 125MB/s
 - 10GbE - 1.25GB/s

Backups Overview:

Server:



- ServerBackup cli or Time Machine
- Yes, I really said Time Machine!

Sync: Is it a backup?



- CCC - Remote Mac
 - Rsync + friendly
 - Scheduled
 - Simple
 - Fast



- Archiware P5 Sync.
 - Sync tier 1 to tier 2
 - Use fsevents
 - Tie in with tape backup
 - Enterprise

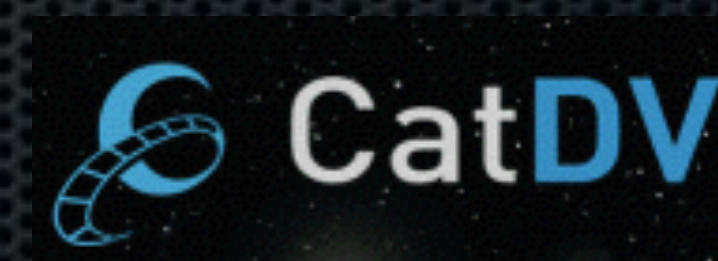
Where is this going?

- Single Drive or RAID?
- LTO Tape
- Blu-Ray
- Fire proof safe



Archive: Is it a backup?

- Data migration for finished projects. Not a backup of production storage
- Asset Management Archive - files + metadata tied to a database with app / web GUI



Live Databases: Special Case Backups

- Examples:
 - FileMaker,
 - MySQL,
 - PostgreSQL
- Use scripts for those
- Backup databases at rest



Live Databases: Virtual Machines

- Virtual Machines:
 - Linux
 - Windows
 - OS X
- Veeam, Backup Exec etc
- Snapshots vs Backups

The VMware logo, featuring the word "vmware" in a lowercase, sans-serif font with a registered trademark symbol, set against a dark rectangular background.

Questions?



Mat X

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