

Shared Storage

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What we will cover

- Storage Types
- What is Xsan?
- The Basics
- Best Practices
- Building an Xsan
- Tuning for performance



Direct / Network Attached Storage

- Single Point of Failure
- Performance Bottlenecks
- Difficult Scalability



Storage Area Network

- High Performance
- Network-Based Storage Management
- Reduced Single Points of Failure
- Flexible Topology



Xsan

- Xsan is a clustered Filesystem
- Fibre Channel Network
- Metadata Network
- Metadata Controllers
- Storage Units



Terms

- Metadata - data about the location of files
- Affinity - preferred location for data type(s)
- Storage Pool / Stripe Group



Insert Xsan Training Here...

...and Fibre Channel and Quantum StorNext...
...talk to Tycho



Best Practices

- Don't cut corners
- Separate Metadata Network
- Do not use a client as a MDC
- DNS, DNS, DNS
- Plan, Plan, Plan
- Backup



Demo

Xsan on a Laptop!



Demo

Replacing a Metadata LUN



Demo

Building a High Performance Volume



Demo

Replacing data LUN(s)



Resources

- Mac Dev Center
- Xsan 2 Admin Guide v2.2
- `man /Library/Filesystems/Xsan/man/man4/cvfs_config.4`
- StorNext Install Guide (3.5.2.x)
- StorNext User Guide (3.5.2.x)
- StorNext CLI Guide (3.5.2.x)
- StorNext Tuning Guide (3.5.2.x)

