THE CHANGING ROLES OF STORAGE

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The ORACLE Stack

- Applications
- Middleware
- Database
- Operating System
- Virtual Machine
- Servers
- Storage
The OTHER Stack

CUSTOMER

REMIVAC

ARTIM

ORACLE
The ORACLE Stack

- Applications
- Middleware
- Database
- Operating System
- Virtual Machine
- Servers
- Storage
The Storage Stack

• Understanding
• Selection
• Designing
• Logistics
• Implementation
• Maintenance
The Storage Stack

- Selection
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- Implementation
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The Storage Stack

- ZFS Storage Appliance
- 3 Distinct Models
- 5 File Protocol: NFS / CIFS etc
- 6 Block Protocol: iSCSI / FC / INFINIBAND
- 4/5 Disk Options (300/600GB -1/2TB) +SSD
- Cache Options
- Software Options
The Storage Stack

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The Storage Stack

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The Storage Stack

• 2 Autoloaders
• 3 Tape Library Models
• 2 / 4 Cartridge Drive Models
The Storage Stack

- 2 Autoloaders
  - 24 Slots
  - 48 Slots
- 3 Tape Library Models
  - SL500
  - SL3000
  - SL8500
The Storage Stack

- LTO
  - LTO-4
  - LTO-5
- ORACLE T10000
  - T10000B
  - T10000C
The Storage Stack

- LTO
  - LTO-4
  - LTO-5 Circa $ 24,000
- ORACLE T10000
  - T10000B
  - T10000C Circa $ 33,000
The Storage Stack

**LTO-5 Cartridge Drive**
- Assume $ 24,000 per drive
- COST Per MB/Sec = $ 171.43
- COST per TB Capacity = $ 16,000
- Cartridges for 10TB BU = 7

**T10000C Cartridge Drive**
- Assume $ 33,000 per drive
- COST Per MB/Sec = $ 131.5
- COST per TB Capacity = $ 6,600
- Cartridges for 10TB BU = 2
The Storage Stack

**LTO-5 Cartridge Media**
- Assume $80 per cartridge
- COST Per TB = $53
- Cartridges for 10 TB BU = 7
- For 100TB BU = 70
- Library Slots for 1 month = 280

**T10000C Cartridge Media**
- Assume $330 per cartridge
- COST Per TB = $66
- Cartridges for 10 TB BU = 2
- For 100TB BU = 20
- Library Slots for 1 month = 80
Questions ???

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