

Virtualization Case Study

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Agenda

- Overview – Who & What
- Environment and Rationale
- Pilot
- Current Status
- Future

Overview

- Leesport Financial Corp
 - Diversified financial services company
 - \$1.4 billion in assets
 - 400 people
 - 24 locations

Environment

- Data Center with 5 racks of servers
- 56 servers – NetWare Windows Linux
- Over half of the servers are 3 years or older
- \$2000 / month electric

Rationale

- Approximately 20 servers were old and need to be replaced now and about the same next year.
- Expected Costs (this year):
 - Hardware \$100,000
 - Services & Labor \$25,000
- More servers need to be added
- UPS and electric service at capacity

Pilot

- 4 NetWare Servers
- 2 Windows Servers
- Various applications on each.
- All were 1.0 to 1.8 Ghz servers
- RAM from 256 M to 2GB

Pilot

- Bought 2 servers with Intel VT and 8GB RAM
- Had REO 1000 – 750 GB iScsi Device
- Loaded Suse Linux Enterprise Server 10 SP1 with Xen, and OCFS
- Built the 6 Virtual Servers and migrated the data.

Current Status

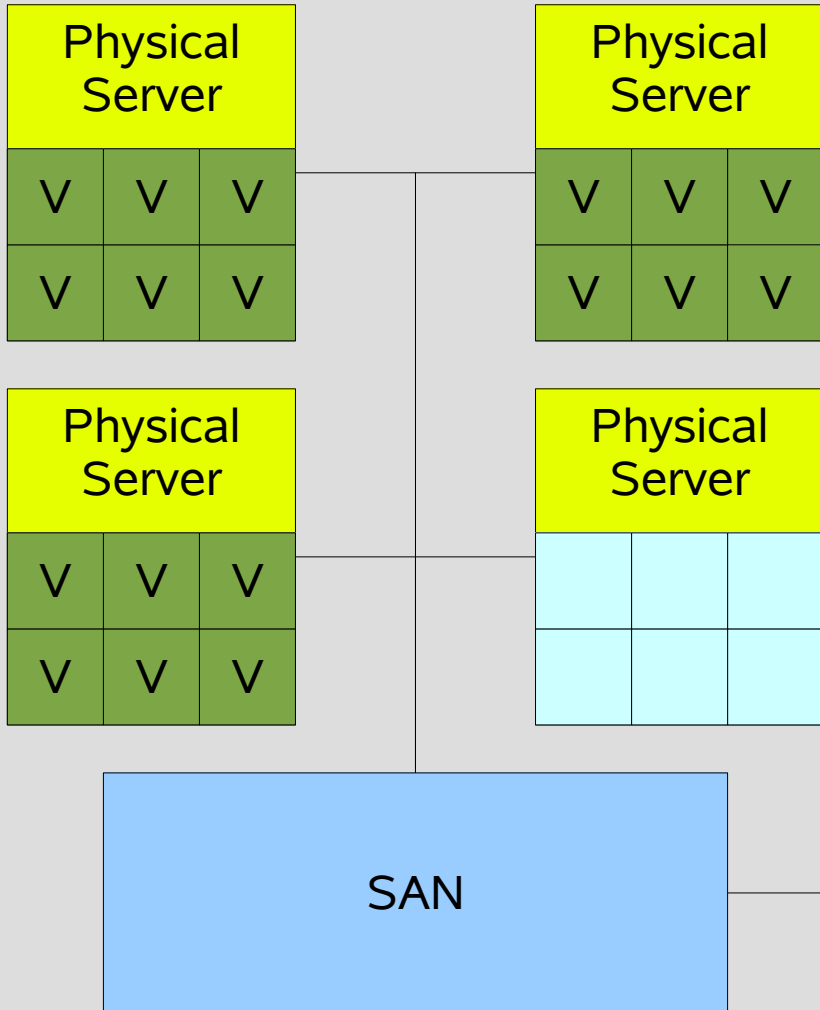
- Now running for more than 6 months
- Added a few more servers
 - As servers were needed for growth, they were created as virtual servers and were never physical servers.
 - 1 Windows Server
 - 1 NetWare Server
 - 2 Linux Servers
- Planning for next phase

Future

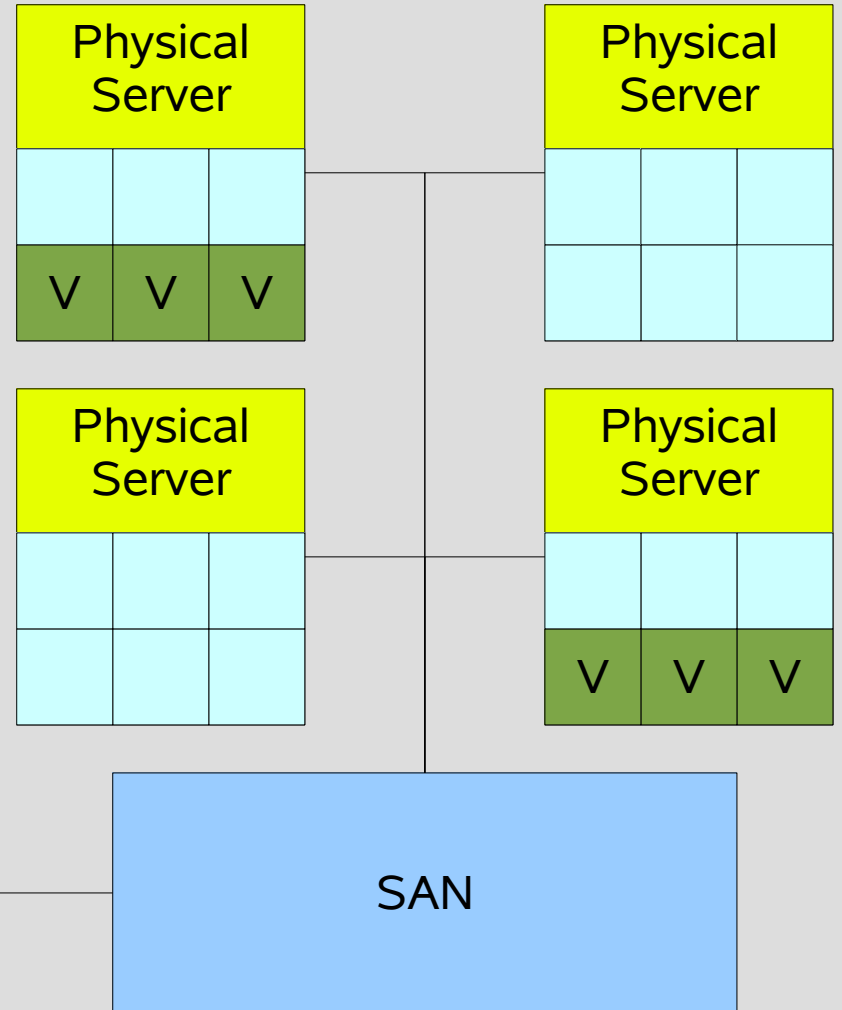
- Add more physical servers
 - more virtual servers
 - fail over
- Expand the SAN
 - More disk space
 - Mirror to another location for disaster continuity

Final Plan

Main Data Center



Backup Data Center



10 Mb

SAN

SAN

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