VMWare Transition

Why?

- Diminishing hard drive space , In average there are 5 project launches per month
- Excess of resources from preliminary report (Unused CPU and Memory)
  - Some servers are getting old (increased failure rate) and it is expensive to buy new servers with excessive resources
  - With VMWare we can add resources as needed and without downtime
- Everything is slow
  - No failover solution and slow data recovery at this time (Currently we only do backup on the data but not the system)
  - Ideal for SaaS implementations, faster deployment and setup (Use VM templates as bundles)
- More clients are asking about virtualization options in hosting
- Constant reliance on DRAC for a high availability environment
- We currently do not use any good monitoring software because we do not have any Linux servers
- Everyone is moving to virtualization

What?

- VMWare Essentials Plus Kit
  - 3 Servers
    - Limits
      - 2 Processors per server
      - 192 GB Maximum total memory
  - 1 SAN
    - VM storage device
    - Up to 24 TB of storage space
  - 2 Switches
    - For load balancing between SAN and 3 servers
    - VMotion implementation
- * This setup can takeover all of our current servers

How?

- Scenario 1
  - VMWare Essentials Plus Kit ($4.5K)
  - 1 SAN ($16K)
  - 1 Memory Upgrades 64GB kit ($3.4K)
  - 1 New Server ($10K)
  - 2 New Cisco Managed Switches ($260 ea)
  - Total = $34.4K
- Drawbacks
  - No redundancy or failover for SAN
  - Takes about 2 months to build a new server from Dell
- Advantages
  - All new equipment
  - No warranty expense

How? (Part 2)

- Scenario 2
  - VMWare Essentials Plus Kit ($4.5K)
  - 1 SAN ($15K)
  - 2 Used Server ($2.5K ea)
  - 2 Memory Upgrades 64GB kit ($3.4K ea)
  - 6 Hard Drive 320 GB ($80 ea)
  - 2 New Cisco Managed Switches ($260 ea)
  - Total = $28.9K
- Drawbacks
  - Warranty expenses
  - No redundancy or failover for SAN
- Advantages
  - Can be purchased in less than 2 months
  - Slightly cheaper
  - Completes the VMWare 3 server cluster setup

How? (Part 3)

- Scenario 3
  - VMWare Essentials Plus Kit ($4.5K)
  - 2 Used SAN ($10K ea)
  - 2 Used Server ($2.5K ea)
  - 2 Memory Upgrades 64GB kit ($3.4K ea)
  - 6 Hard Drive 320 GB ($80 ea)
  - 2 New Cisco Managed Switches ($260 ea)
  - Total = $37.3K
- Drawbacks
  - Used SAN is hard to find in the Internet
  - Most expensive of all scenarios
  - Warranty expenses
- Advantages
  - Can be purchased in less than 2 months
  - Failover availability
  - Completes the VMWare 3 server cluster setup

Where?

- Setup and testing will be done in the office
- Implementation will be in another data cabinet in CoreSite
- Possible failover setup in the future in Las Vegas

vmware®

When?

- Timeline
- Acquire Equipment (2 months)
- Setup and Test Equipment in (1 month)
- CoreSite / Colocation Setup (2 weeks)
- Server Transition (6 months)
  - This includes transferring all websites and all data to virtual servers

Pricing

- Based off $200 per month shared hosting
- * Prices are subject to change
  - Light (*$300)
    - 50 GB Disk
    - 4 GB RAM
    - 2 Cores
  - Basic (*$400)
    - 100 GB Disk
    - 8 GB RAM
    - 4 Cores
  - Medium (*$500)
    - 250 GB
    - 8 GB
    - 4 Cores
  - Enterprise (*$600)
    - 500 GB
    - 16 GB
    - 8 Cores