

You're Virtualized, Now What?

Next steps in Data Center Virtualization



Tweeting? #SOSPG4

You're Virtualized, Now What?

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VIRTUALIZATION PLATFORM



VIRTUALIZATION PLATFORM

- ◆ VMWare alternatives
 - ◆ XenServer
 - ◆ Hyper-V



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VIRTUALIZATION PLATFORM

- ◆ Why migrate from VMWare to Hyper-V?
 - ◆ Is Microsoft really comparable?
 - ◆ What is so compelling?
 - ◆ New Features that might be interesting
 - ◆ How hard is it?
 - ◆ What are some of the downsides?



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Virtualization Impact

Virtualization Impact

- ◆ Rightsizing - The Pursuit of 3K
 - ◆ Labor
 - ◆ Assets
 - ◆ Profits
- ◆ Business Communication
 - ◆ Video as Commonplace
- ◆ CIO to CDO
 - ◆ Agent of Agreement



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Virtual Environment Management

Virtual Environment Management

- ◆ Virtualization Challenges
 - ◆ Backup
 - ◆ Storage
 - ◆ Troubleshooting performance
 - ◆ Advanced network management storage/production



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Virtual Environment Management

- ◆ Management Challenges
 - ◆ Fast growing ecosystem
 - ◆ Hypervisor
 - ◆ Guests
 - ◆ Storage
 - ◆ Network



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Virtual Environment Management

- ◆ Tomorrow's Tools
 - ◆ What is native?
 - ◆ One Stop Shopping - Single pane of glass
 - ◆ Integrating Security
 - ◆ Third Party



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Disaster Recovery, Business Continuity and Backup

DR/BC & Backup

- ◆ Native Tools
 - ◆ VMWare, XenServer & Hyper-V
 - ◆ Site Replication
 - ◆ Automation
 - ◆ File Level Recovery
- ◆ Storage - Block Level Replication
- ◆ Third Party Tools and Services



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Datacenter Proximity

Do we need to keep the data center within our walls?
Virtualized infrastructures are portable in a sense... what are the advantages?

Datacenter Proximity

- ◆ **Location! Location... Location?**
 - ◆ What are your Requirements?
 - ◆ Compass Datacenter Study
 - ◆ Advantages
 - ◆ Disadvantages
 - ◆ Geo Redundancy



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Datacenter Proximity

- ◆ Do Microseconds Matter?
 - ◆ Physics
 - ◆ Risk vs. Proximity
 - ◆ Latency Table
 - ◆ What effect will IPv6 have?



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Datacenter Proximity

◆ Overcoming Latency Bias

- ◆ Network Accelerators
- ◆ Content Caching
- ◆ Remote Technologies
- ◆ Interconnects and Peering



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Datacenter Proximity

- ◆ **Overcoming Proximity Bias**
 - ◆ Virtual Datacenters
 - ◆ Virtual Geography



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Outsourcing

In a Virtual World



Outsourcing

- ◆ The new breed of consultants
- ◆ The false promise of on premise
- ◆ Tevye - Breaking the barrier of “no”
- ◆ Innovate without Admin burden



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IaaS Foundations

IaaS Foundations

- ◆ Cloud computing has brought a convergence and variety of new network-centric frameworks and hardware for virtualizing, scaling and automating IT infrastructure.
- ◆ How can we leverage these platforms in both private and public environments to gain the operational benefits of cloud computing while retaining maximum control over our IT infrastructure?



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IaaS Foundations

◆ Blocks & Pods

- ◆ Nutanix
- ◆ Hadoop / Whitebox
- ◆ FlexPods



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IaaS Foundations

◆ Stacks

- ◆ SleeStacks
- ◆ CloudStack
- ◆ OpenStack
- ◆ Eucalyptus



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IaaS Foundations

◆ Pinwheels

- ◆ AWS Storage Gateway
- ◆ vCloud Hybrid Service
- ◆ Nasuni
- ◆ Tintri
- ◆ Granite
- ◆ Cloudbridge



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Hosted IT

Hosted IT

- ◆ What does it really mean?
- ◆ Why do it?
- ◆ How do you create the run books?
- ◆ Testing?
- ◆ Who are the players?



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Questions?



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Thank you



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