



Understanding Server Virtualization

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About VISI

- HQs in Minneapolis w/ 60+ employees in Minneapolis and St. Paul
- Largest privately-held managed hosting and connectivity provider
- 11,000+ customers including Caribou Coffee, Health Partners, Lund Boats, Minnesota Orchestra, PeopleNet, Rockler, Star Tribune
- Microsoft Gold Partner, Redhat Hosting, Dell, VMWare Partner

What is Virtualization?

“Virtualization lets you transform hardware into software”. (Source: www.vmware.com)

“Virtualization allows multiple operating system instances to run concurrently on a single computer.”
(Source: [redhat](http://redhat.com))



Why is Virtualization Important?

- Go Green: Improve operating efficiency
 - Increase existing hardware utilization from 10-15% to 80%
 - Break the legacy “one application to one server” model
- Vendor Neutral: Decrease reliance on hardware infrastructure
 - Easier to perform forklift upgrades and maintenance of servers
- Speed to Market: Quickly provision new services
- Cost Effective: Reduce hardware and hosting costs by as much as 50%

What Doesn't Virtualization Do?

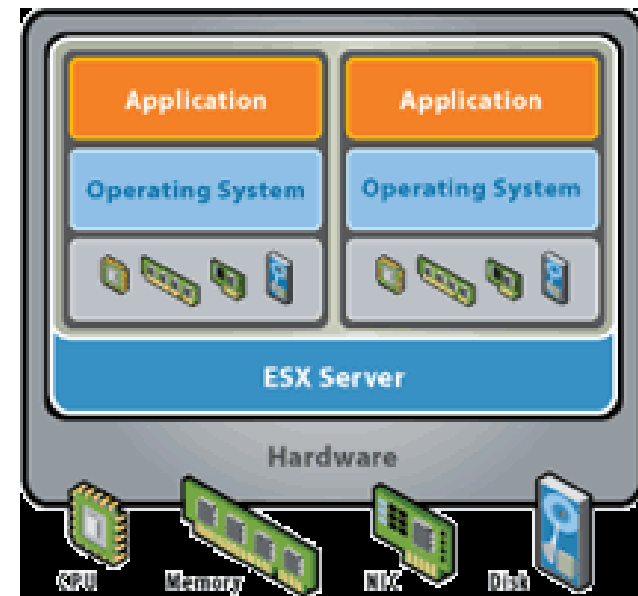
- Virtualization doesn't do your laundry or cure world hunger
- Virtualization doesn't solve every problem: $1+1 = 3$
- Virtualization uses additional computing resources
- Virtualization adds management complexity

Virtualization Methodologies

- OS virtualization
 - Many virtual environments sharing a single OS kernel
 - Limited to one specific Operating System version
 - Very fast performance
 - VISI Windows and Linux VPS Hosting (Virtuosso)
- Hardware virtualization
 - Many virtual machines sharing a single physical server
 - Can run many different Operating Systems
 - VISI Virtual Dedicated Servers (VMWare ESX)

VMWare Virtualization

- VMWare is the current gold-standard for virtualization
- VMWare has the biggest ecosystem
- VMWare hypervisor is installed on bare-metal
- Each VM is assigned CPU/Memory/Disk/etc.



VISI Virtual Dedicated Servers

- Based on enterprise-class Dell PowerEdge servers and VMWare ESX 3.5
- Multi-core processors , 4+ GB RAM, and storage in each server
- Fully managed VMWare ESX Hypervisor and Virtual Machines
- Monitored and supported 24x7
- Add or remove VMs on a monthly basis!

VDS Use Cases

- Consolidating legacy systems
- Consolidating applications with unique system requirements
- Isolating client applications and data
- Building testing and staging environments
- Cost effective start-up architecture

Virtualization Possibilities...

- Convert existing physical servers into VMs (P2V)



- Virtual Machine Snapshots
- Many more interesting possibilities in the future

Questions?

Q & A

Contact the VISI sales team if you
are interested in Virtual Dedicated Servers

612-395-9090 / sales@visi.com

VISI Virtual Dedicated Servers

Thank you!

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