



Virtualization 101: What You Need to Know

June 18, 2009



Education • Network Services • Business Applications



Agenda

- What is virtualization?
- How can it impact your business?
- What are the solutions? What must you think about?



What is Virtualization?

- Textbook Definition:
 - “Technique for hiding the physical characteristics of computing resources to simplify the way in which other systems, applications or end users interact with those resources.” *(About.com)*
- History



What is Virtualization?

- Virtualization Solutions
 - Application
 - Storage
 - Server
 - Desktop



Benefits of Virtualization?

- Reduced Operating Costs
- Increased System Flexibility
- Increased Disaster Recovery Capabilities



Reducing Costs

- How does Server Virtualization help?
- All about going **GREEN**
 - Less physical space
 - Reduced power requirements
 - Reduced cooling requirements



Reducing Costs

- How does Storage Virtualization help?
 - System Efficiency – ability to match up drive spaces with needs
 - Less “wasted” space
- How does Desktop Virtualization help?
 - Single “Image” makes for easier admin
 - Ability to use thin clients instead of PCs



Reducing Costs

- How can Application Virtualization help?
 - Ability to run different versions of same applications



Increased Flexibility

- Server Virtualization
 - Most stand alone servers sit idle
 - Optimizing system resources
 - Ability to allocate resources properly – changing on the fly
 - “Forklift” upgrades to move to new hardware



Disaster Recovery Functions

- Server Virtualization
 - Server images not tied to specific hardware
 - Snapshot backup capabilities
 - Using snapshots to create test environments
 - Support for redundant servers – quick migrations
 - Tools available to do P2V migrations
 - Can run old software (think NT4) on updated servers



Virtualization Market Space

- VMware
- Microsoft
- Citrix
- Virtual Iron



Virtualization Considerations

- Planning is KEY!
 - Can all servers be consolidated?
 - Hardware capacity planning
 - Hardware/system redundancy
 - Storage needs
 - Software requirements & licensing
 - System management



Tying it all together....

- Common questions
 - Is virtualization right for me?
 - Depends, but in most cases YES!
 - Is it hard to support?
 - Is it affordable?



Virtualization Summary

- Benefits are real
- Technology works for small business
- Next Steps?
 - Schedule a review of your systems with ADNET.
 - Working together to develop a roadmap



Q&A



Tim Weber

tweber@goADNET.com

[**www.goADNET.com**](http://www.goADNET.com)

THANK YOU!