

# NOTES FROM MMS 2009

What happens in Vegas can come back!

# What is MMS 2009 you ask...

**Microsoft Management Summit 2009**

April 27–May 1, 2009 | Las Vegas, Nevada

**PHYSICALVIRTUALPOWERFUL**

**Microsoft**

# Fun Facts

## ▣ Registration by the Numbers

- 16,400: Approximate number of miles roundtrip 9 attendees flew to be at MMS 2009
- 800: Approximate number of attendees who have previously attended an MMS
- 50: The number of US states represented
- 44: The number of countries represented
- 24: The number of US states with over 20 representatives
- 6: The number of countries with more than 50 attendees
- Top countries other than the US with the highest representation: Canada, Denmark, UK, Sweden, Norway

# Fun Facts (cont..)

- ▣ **Session Content** 159 breakouts, 16 BOF sessions, 85 ILL lab sessions and 75 different self-paced lab topics
  - A total of 33,601 session bookings were received on CommNet.
  - The backstage keynote demo lab for day 1 and day 2 combined included 5 server racks, 4 stand-alone servers, and 14 desktop computers.
  - The Maximum ASP public cloud demo included fully-functioning private and public cloud networks, both assembled onsite in Las Vegas in 48 hours.
  - The Wireless Wake-Up and Windows 7 Deployment demo featured 18 laptops in the audience connected to a live wireless network; over the course of twenty minutes, each laptop was upgraded from Windows XP to Windows 7 in real-time.

# Fun Facts (cont..)

## ▣ Expo & Meals Facts

- 55 companies were featured in the Expo Hall as Sponsor-Exhibitors or Exhibitors.
- Over 3,400 System Center-branded space racers, laptop skins, mints, yo-yo octopi, and Post-It Note cubes were given out in the Microsoft Pavilion in the Expo Hall.
- 1,000 feet of drape and 3400 sq yards of carpet were used to "dress" the Expo Hall.
- 2,400 lbs of eggs and 1,800 lbs of potatoes were served during the MMS week
- 5,472 sodas were consumed during the week's lunches and breaks
- MMS's signature cocktail, the ITProtini, proved to be a popular item – attendees enjoyed 1,221 of them during the Closing Party!







# Fun Facts (cont..)

## ▣ Hotel Facts

- Approximately 50,000 people visit The Venetian each day (more than 18 million each year).
- The Palazzo and the Venetian together have more than 7,000 suites, making the combined space the largest hotel in the world.
- At 85,000 sq feet, the Venetian Ballroom is one of the largest obstruction-free ballrooms in the world.
- Using a standard garden hose for 24 hours a day, it would take 65 days to fill the indoor Grand Canal.
- At 50 stories and 639.5 feet tall, the Palazzo is the 2nd tallest building in Nevada.
- There is no 4th, 13th, or 14th floor in the Palazzo.
- The Palazzo contains 230,000 cubic yards of concrete. That's enough concrete to build a six-foot wide sidewalk from the hotel all the way to the northeast corner of Yellowstone National Park.

# System Center Roadmap

	CY 2008	2009	2010	2011
 Microsoft System Center Operations Manager	2007 SP1	2007 R2		vNext
 Microsoft System Center Virtual Machine Manager 2008	2008	2008 R2		vNext
 Microsoft System Center Configuration Manager	2007 R2	2007 SP2		vNext
 Microsoft System Center Data Protection Manager	2007 SP1		2010	vNext
 Microsoft System Center Service Manager			2010	
 Microsoft Desktop Optimization Pack for Software Assurance	2008	2009 & R2	2010 & R2	2011 & R2
 Microsoft System Center Online Desktop Manager			V1	V2 & V3
 Microsoft System Center Essentials	2007 SP1		2010	

# User Presentation

- ▣ Frank Ortega
  - Babcock and Wilcox
  - Email: [flortega@babcock.com](mailto:flortega@babcock.com)
  - ConfigMgr Right-Click Tools  
(<http://myitforum.com/cs2/blogs/rhouchins/archive/2008/04/09/sccm-right-click-tools.aspx>)
  - Zander Tools (<http://myitforum.com/cs2/blogs/rzander/default.aspx>) Kurt Peterson



# User Presentation

- ▣ Jason Condo
  - Bennett Adelson
  - Email: [jcondo@bennettadelson.com](mailto:jcondo@bennettadelson.com)
  - Topics:
    - ▣ ConfigMgr 2007 R2
    - ▣ Service Centric Data Center and the Cloud

# What's coming...OpsMgr 2007 R2



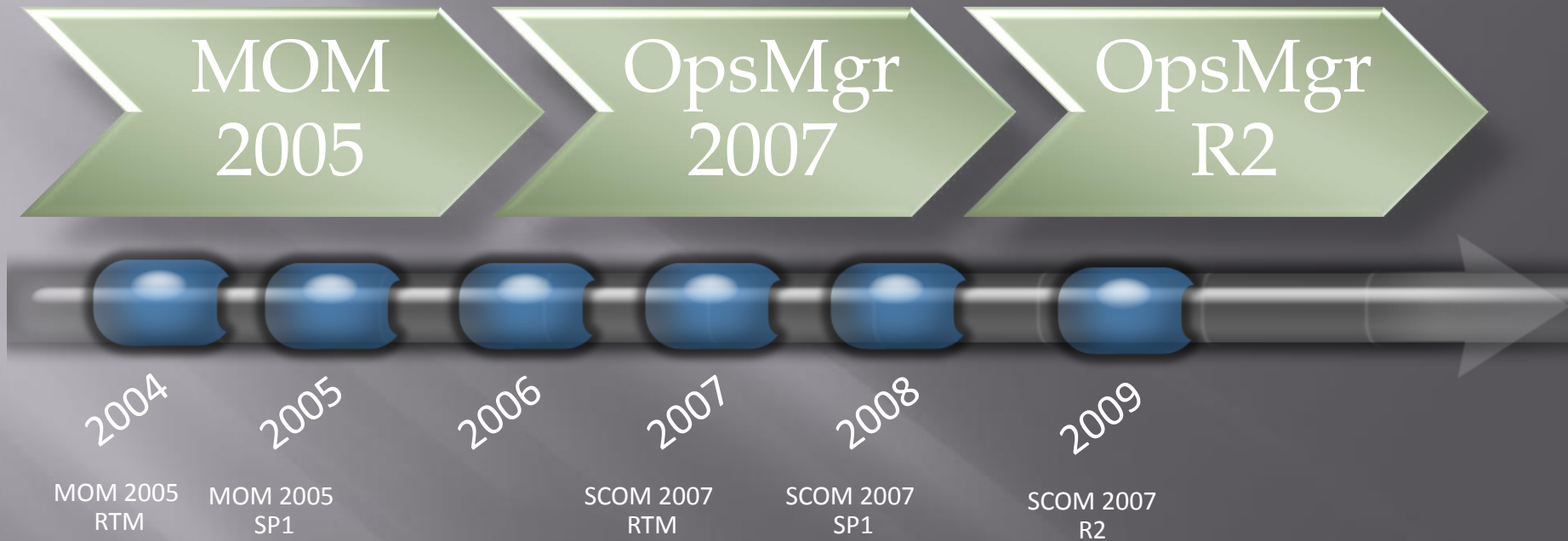
Microsoft®

System Center

Operations Manager 2007 R2

- ▣ Less than 30 days away (RC out now)
- ▣ Increased scalability
- ▣ New Authoring Console
- ▣ Faster/Better Performance
- ▣ Better Integration – Complete\* data center monitoring

# How did we get here?



	MOM 2005	OpsMgr 2007	OpsMgr 2007 R2
Managed Environments	Server Roles	Services, LOB Apps, Transactions, Clients	Extends to Heterogeneous Environments'
Detect	State	Health Model	Synthetic Transactions + Health Model
Architecture	WS based Tiering and Integration	Model based Management	Model based Management
Actions	Tasks	Active Knowledge	Service Level Reporting

# Key Benefits of OpsMgr R2

- ▣ Manage your Heterogeneous environments
- ▣ Access best of breed and up-to-date Knowledge
- ▣ Focus on Service Centric Management
- ▣ Gain visibility into Power consumption
- ▣ Better experience with Product Support
- ▣ Simplified and Integrated User experience

# Kewl Features to talk about...

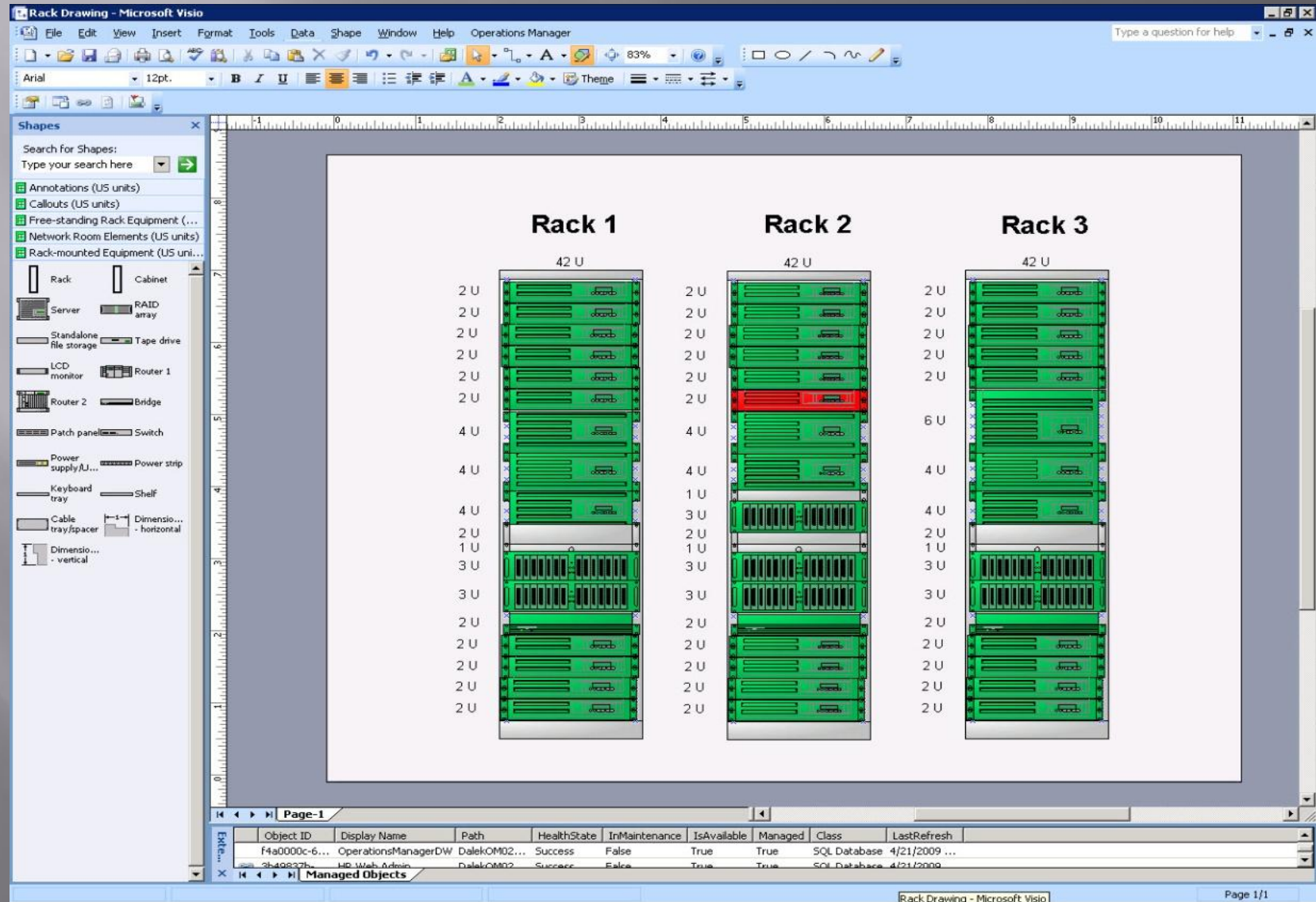
- ▣ Scalability
  - Enhanced capability to monitor thousands of URL's
  - More agents per server
  - Better console performance
  - Quicker access to performance monitoring information
- ▣ Service level monitoring and Dashboards
- ▣ Better Monitoring of Virtuals with VMM integration
- ▣ Reporting on application performance and availability



# Kewl Features to talk about...

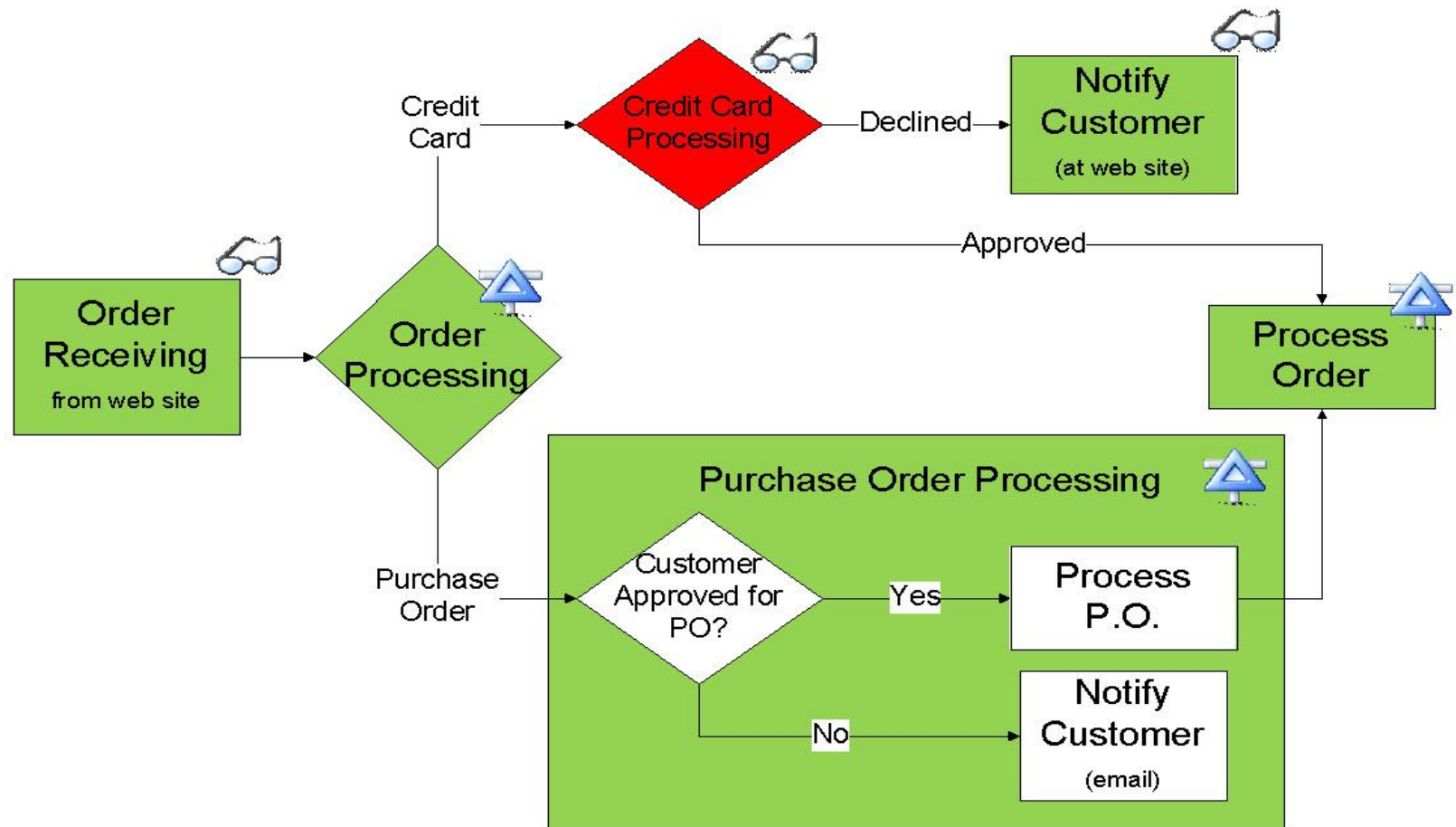
- ▣ Management Pack management:
  - Better authoring
  - Overrides view
  - Easier to download from the MP Catalog directly from wizard
- ▣ Web View
  - Dashboards
  - Faster
  - View Health Explorer through Web
  - SharePoint integration
- ▣ Visio Integration
  - Click “to Visio” button in the console
  - Save the file
  - Open and edit as you like – Visio will use the RMS as data source for the drawing. Save you files to share or publish in SharePoint.
- ▣ Heterogenous
  - HPUS, Solaris, AIX, Linux, as well as Windows

The following document shows the status of racks of servers, using the SCOM Color by Value status representation.



The following document shows the flow of an application, using the SCOM Icon Set to represent the health of the application.

## Order Application Component Health



The following document shows a dashboard view of an application.



# HR Application Health Dashboard



HR Application



DalekOM02.red  
mond.corp....



HR Web



HR Web  
Admin



HR Web Admin



HR Web Payroll

The following document shows a map view of the status of applications.

## Application Health Perspectives





# Resources for OpsMgr

- ▣ <http://www.opsmanjam.com>
  - On this site you will find unofficial management packs, management pack authoring tutorials and guidance, featured articles on everything OpsManager 2007, command shell scripts, and more.
  - The content on this site comes from Microsoft Consulting Services, Microsoft IT and the Operations Manager Product team. While the content that you will find here *is not supported by Microsoft, it has been used in the field and is used everyday inside of Microsoft*. Consider it to be useful tidbits from the experts.
- ▣ <http://blogs.technet.com/momteam/default.aspx>
  - Microsoft OpsMgr Team Blog
- ▣ <http://blogs.technet.com/brianwren>
  - Microsoft Consulting Services Consultant
- ▣ [http://blogs.msdn.com/boris\\_yanushpolsky/](http://blogs.msdn.com/boris_yanushpolsky/)
  - Microsoft Program Manager
- ▣ <http://blogs.msdn.com/mariussutara/>
  - Microsoft Senior SDE
- ▣ <http://systemcentercentral.com>
  - System Center Central – community System Center Pack Catalog downloads, create, share, rate management packs

# Service Centric Data Center

- ▣ In order to be “People-Ready” or “Business Ready”, Infrastructure needs to be:
  - Reliable
    - ▣ Down systems do not affect us
  - Predictable
    - ▣ Don't care about Maintenance Windows or scheduled downtime
  - Automated
    - ▣ Remove the risk of errors
- ▣ We need to focus on providing a platform that delivers a service (Service Centric)

# What the cloud means to you

- ▣ New Buzzword – needs fleshed out
- ▣ Virtualization is the core
  - Not only the platform, but also applications
- ▣ Create Dynamic environments
  - Adapt to change quickly
  - Agility!
  - Reliability

# The Cloud – Breakdown

Software as  
a Service  
(SaaS)

Cloud Applications

Platform as  
a Service  
(PaaS)

Cloud Software Environment

Cloud Software Infrastructure

Computational  
Resources

Storage

Communications

Infrastructure  
as a Service  
(IaaS)

Data  
Storage as  
a Service  
(DaaS)

Communication  
as a Service  
(CaaS)

# 2 Models of Clouds

- ▣ Understand that IT is shifting from CAPEX to OPEX
  - Capital Expenditures (hardware, resources)
  - Operational Expenses (management, services)
- ▣ Private Cloud
  - Yours
  - Security / Culture Restraints
- ▣ Public Cloud
  - Expanded access
  - Leverage someone else's investment
  - PaaS, IaaS



# IaaS – Infrastructure as a Service

- ▣ Built on ...
  - Hyper-V
    - ▣ Core
  - System Center
    - ▣ Tools
  - Forefront
    - ▣ Integration (Federated Services)
- ▣ Functions ...
  - Unified and Virtualized
  - Process Led, Model Driven
  - Service Enabled
  - User Centered/Focused

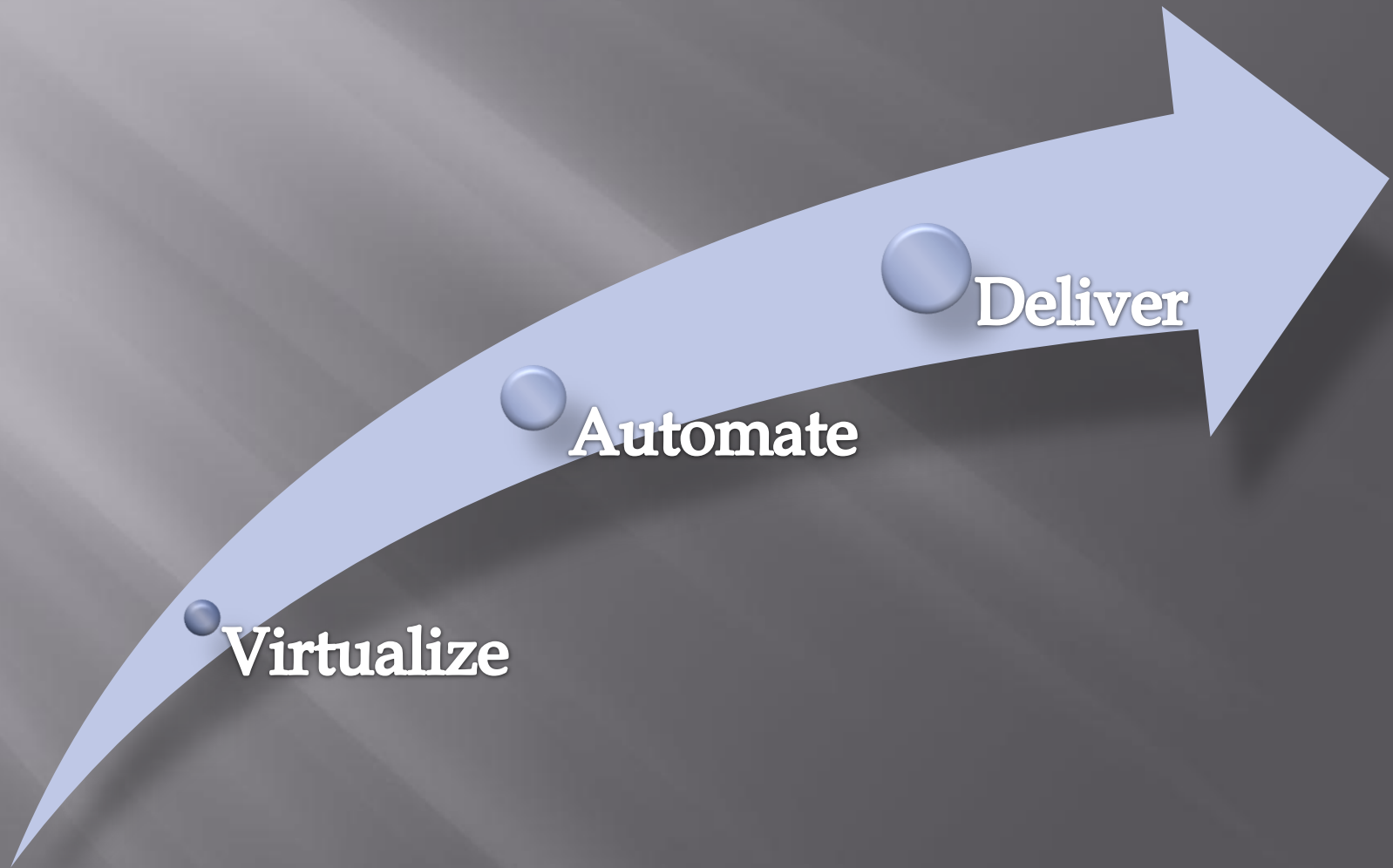
# The Public Cloud

- ▣ Leverage someone else's hardware investments
  - Provides platform for systems
  - Removes hardware capacity requirements
- ▣ Bennett Adelson example for TOGA
- ▣ Azure
  - Software as a Service
- ▣ Lessons learned to be shared to customers for Private Cloud (probably solution accelerators)

# The Private Cloud

- ▣ What is it:
  - Hardware Abstraction
  - Logical Pooling
  - Dynamic Provisioning
- ▣ How to deliver it:
  - Always available
  - Distributed
  - Heterogeneous
  - Elastic (dynamic provisioning / public cloud)

# The Private Cloud



# Virtualization

- ▣ Application virtualization on the server
- ▣ Live Migration capability in Server 2008 R2
- ▣ VMM update with 60 days of Server 2008 R2
  - Also manages VMWare
- ▣ Application Virtualization on Server platform
  - Discuss demo



# Additional Comments

- ▣ System Center to manage the whole data center
  - HPUS, Solaris, AIX, Linux, as well as Windows
- ▣ PRO packs – Vendor integration for System Center
- ▣ Novell and a company called Bridgeways will be announcing that they're going to have management packs for Solaris, Linux, AIX, Oracle, SAP
- ▣ Things MS learns implementing the Public Cloud will be passed to you for your Private Cloud
- ▣ Demo: Out of Capacity!
  - Host in VMM
  - Add Capacity
  - Up in minutes
  - Same toolset to manage and report on both Private and Public