

# CA Virtual Management Suite

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**ca** Forum

Bratislava  
20. október

# Agenda

**1** Virtualization and Virtualization Management

**2** Typical Virtualization Cycles and Pressures

**3** Discuss Your Virtualization Goals & Challenges

**4** Discuss How CA Might Help You Meet Your Goals

**5** Wrap up, Next Steps

# virtualization = fantastic outcomes

## Agility

Enable faster business innovation, transformation

## Business Continuity

Hardware redundancy, isolation, live migration

## Cost Savings

Hardware, power, rent, cooling, downtime

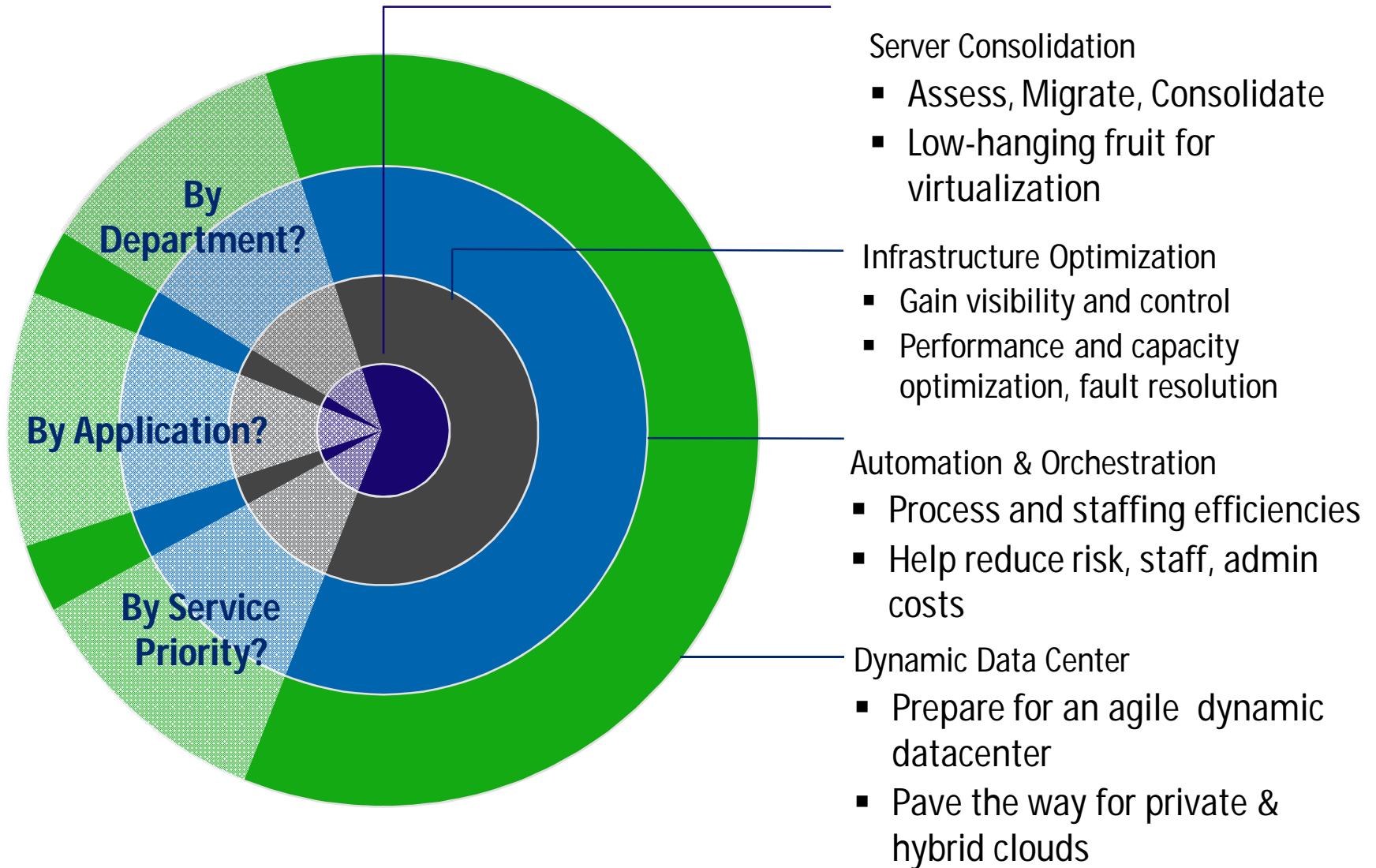
“Virtualization delivers clear ROI, increases agility, and drives business value.”

Bernd Harzog, The Virtualization Practice, March 2010

# not all clear sailing

IDC, Worldwide Distributed Virtual Server Management Software 2009–2013 Forecast Update and 2008 Vendor Shares, Mary Johnston Turner, #220372, October 2009

# Expanding Life Cycle of Virtualization



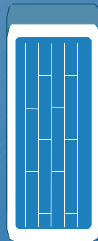
# typical virtualization deployment

where are you? where do you want to be?

Consolidation • Optimization • Automation • Dynamic

Management "Tipping Points"

Dev and  
Test



Limited  
Production



Extensive  
Production



Enterprise  
Platform

# dev and test

## Goals

- Departmental deployment
- No review, oversight
- Few security concerns

## Challenges

- Automated image build
- Template & image management
- Labs-on-Demand

## Dev and Test

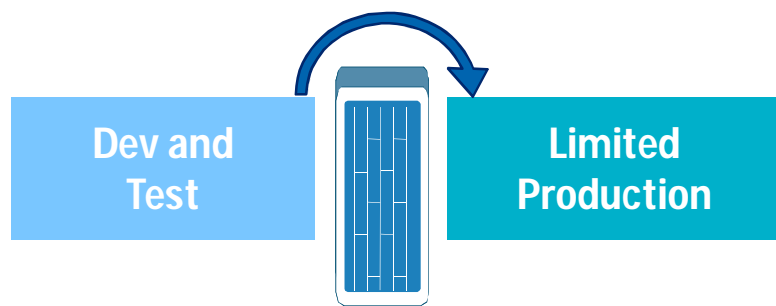
# moving into limited production

## Goals

- Consolidation of low-hanging fruit
- Rapid increase in VM provisioning
- Continuity, performance

## Challenges

- Basic performance assurance
- Virtual backup and recovery
- Automation for VM provisioning, configuration control





# From limited to extensive production

## Goals

- Increasing focus on security, compliance
- Meet LOB demands for performance, uptime
- Handle pressure building on staff, skills

## Challenges

- Advanced performance assurance
- Virtual & physical automation
- Virtual security, configuration & change management



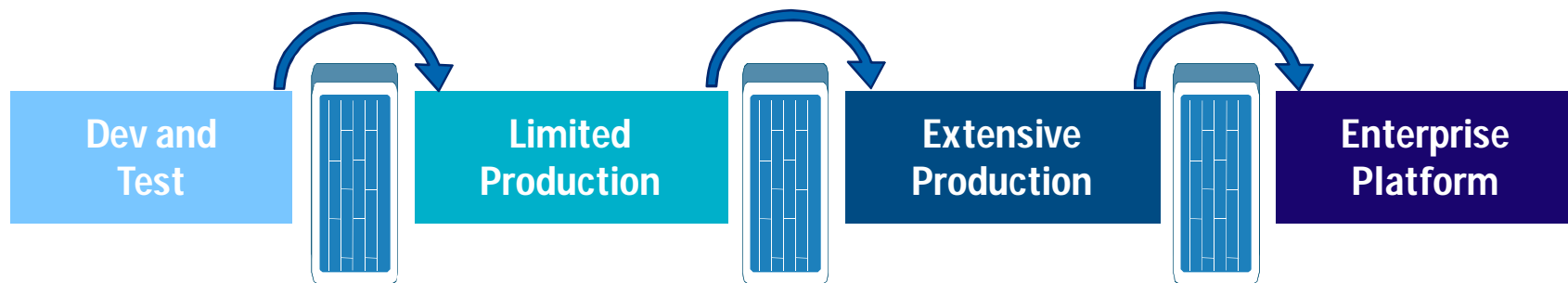
# building an enterprise platform

## Goals

- Building the Agile Dynamic Data Center
- Moving toward private or hybrid cloud
- Service oriented, business focused

## Challenges

- Orchestration & process automation
- Service management
- IT Asset & financial management (incl. Chargeback)



# where are you? where would you like to be?

- What is your current level of virtualization?
- What is holding you back the most?
- Do you have enough skilled staff to scale up virtualization?
- If your tools were designed to automatically provision, control, assure, secure, and optimize your virtual and physical systems – all according to business policies and best practices – would that help?
  - To improve and reduce costs by expanding virtualization?
  - To meet SLAs for performance , uptime, security, compliance?
  - To meet your project and growth needs, without adding staff?

# what if we could provide you with ...

## Visibility

- Into VM location, configuration, security, response times
- Aligns capacity and performance, helps ensure-compliance

## Assurance

- Audited performance, uptime, cost, agility
- Allows LOB trust, more virtualization, expanded benefits

## Automation

- Of VM deployment, problem analysis, user requests, etc.
- Allows broader virtualization with existing (or fewer) staff

# CA Technologies virtualization management

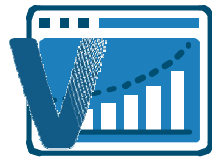
## Delivering visibility, assurance, & automation

CA's Virtualization Management solutions were designed to provision, control, assure and optimize hybrid virtual and physical environments in new and unique ways, delivering:

- **New levels** of speed and flexibility – and business competitiveness
- **Exceptional** manageability, service assurance, and security
- **Significantly** lower cost and compelling ROI

# CA Virtual Family at a glance

(Slide 1 of 2)



CA Virtual Assurance

*Optimize Performance*

New

Designed to accurately detect, diagnose & remediate root-cause & performance issues, gaining visibility & control across heterogeneous virtual environments.

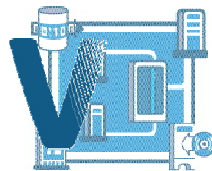


CA Virtual Automation

*Agile Provisioning*

New

Designed to rapidly deploy virtual infrastructures & applications, or deploy private cloud systems, efficiently serving business needs in real-time.



CA Virtual Configuration

*Ensure Compliance*

New

Designed to automate configuration auditing detects and tracks changes against a gold standard, meeting compliance goals.

# CA Virtual Family at a glance

(Slide 2 of 2)



CA Virtual  
Privileged User  
Manager

*Secure Access*

New

Designed to restrict privileged access and assure proper access audit and control to support dynamic virtual infrastructures.



Spectrum  
Automation  
Manager

*Physical & Virtual*

Designed to automate complex processes on multiple physical & virtual platforms, embedding knowledge, freeing up staff, and relieving skills pressure.



CA ARCserve

*Automated Continuity*

Designed to ensure data protection & automate recovery processing, making the virtual infrastructure highly available, ensuring business continuity & compliance.

# CA Virtualization Management: extensible, expandable, strategic



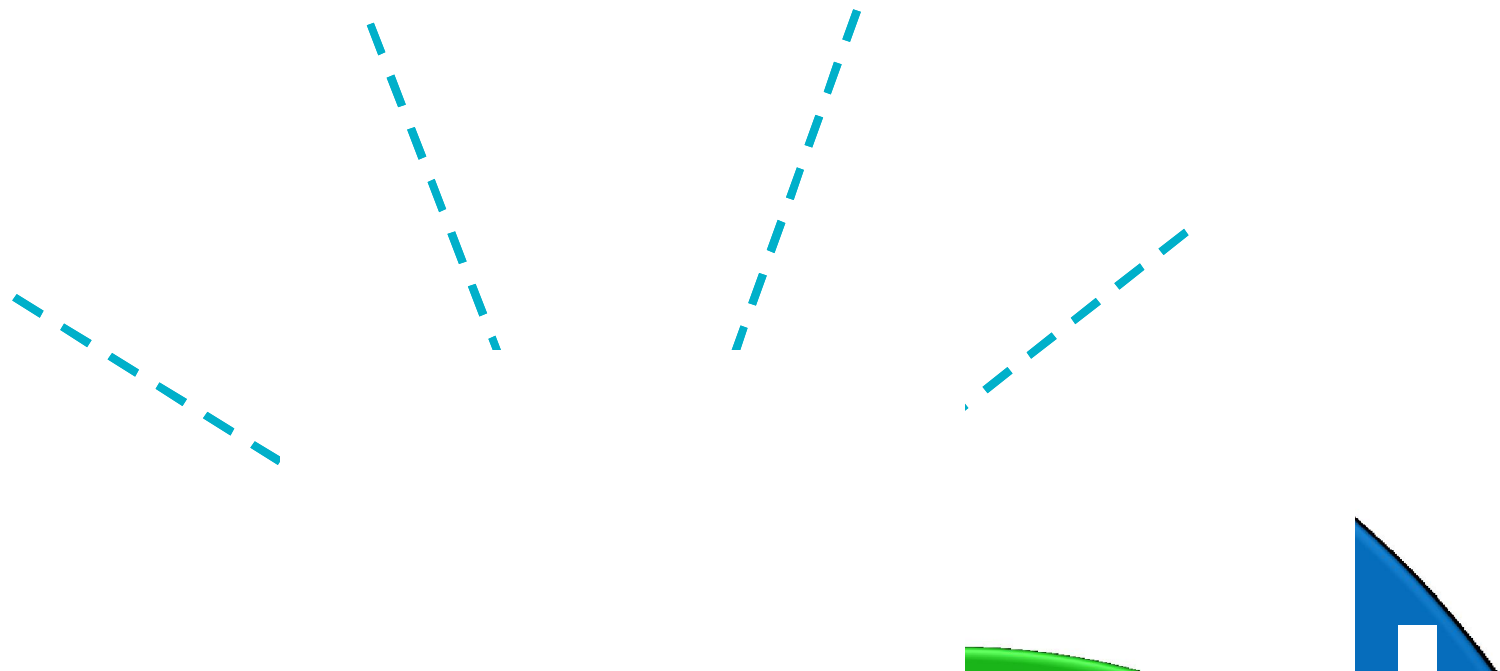
CA Virtualization  
Management



CA Enterprise  
Management



CA Service Management





# CA Technologies' added advantage: expand to manage hybrid environments

Are you considering  
other virtualization  
platforms?

- VMware is everywhere, but diversity is growing
- Especially Microsoft Hyper-V; also Citrix/Xen, Solaris

Do you still need  
physical systems  
management?

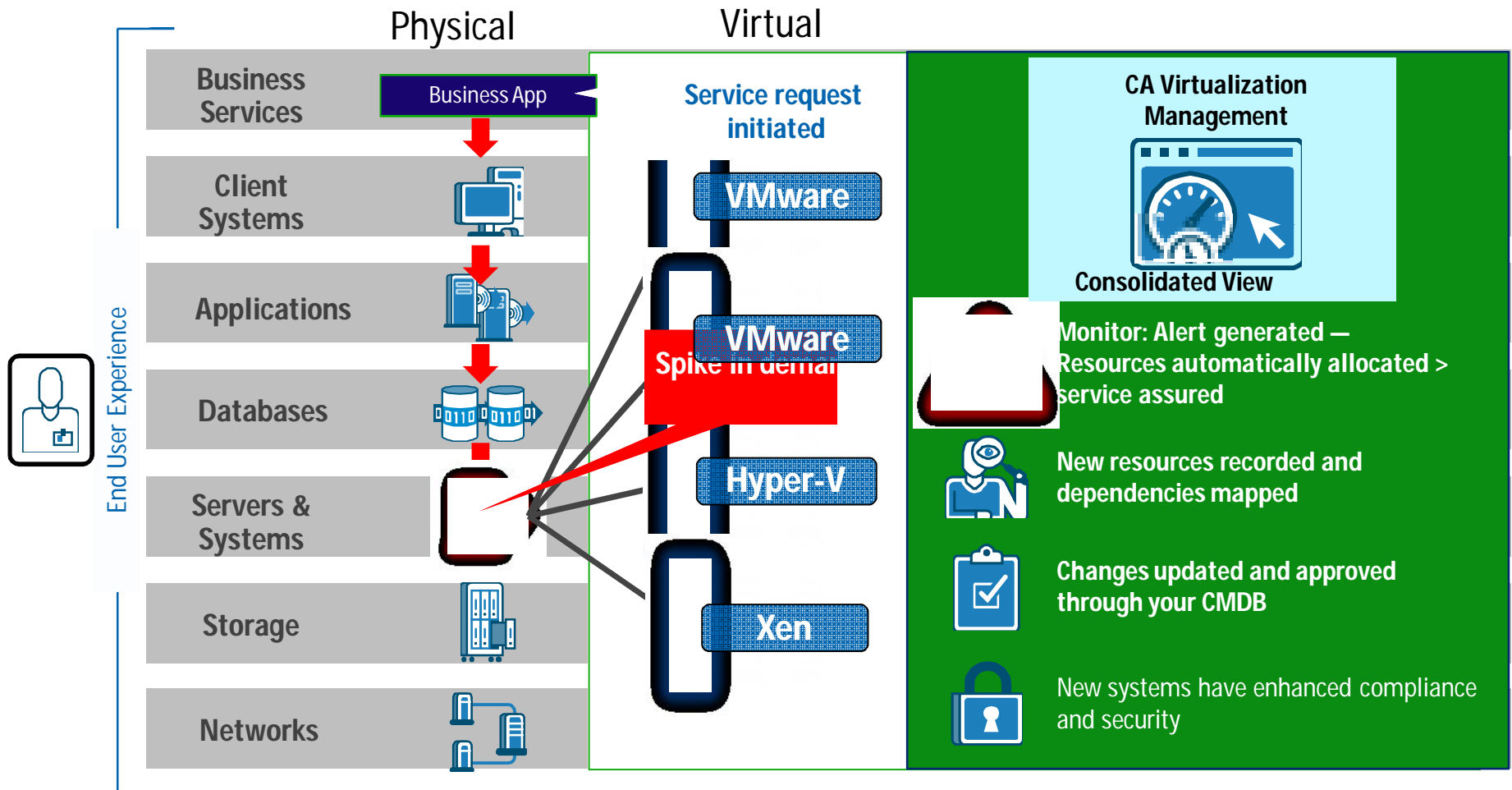
- Gartner says 16 percent of workloads are running in virtual machines today <sup>(1)</sup>
- Windows, AIX, HP-UX, Solaris, Linux, z/OS

Thinking about  
opportunities in cloud  
computing?

- Private (on-premise) cloud
- Public (off-premise) cloud
- Enabled by virtualization, automation, management

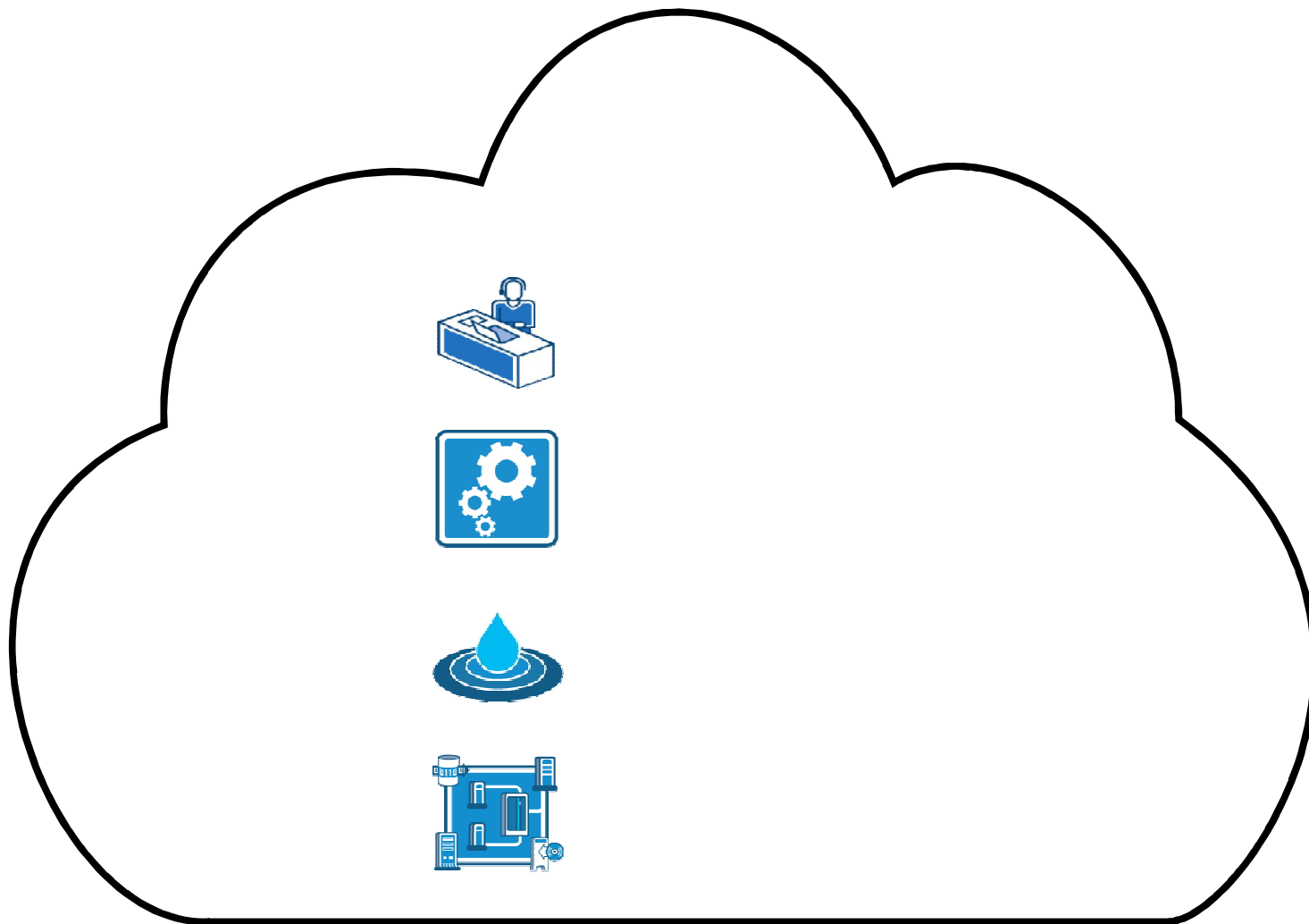
Source 1: Gartner Press Release, "Gartner Says 16 Percent of Workloads are Running in Virtual Machines Today", October 21, 2009  
<http://www.gartner.com/it/page.jsp?id=1211813>

# End-to-end, top to bottom: visibility, assurance, automation



In real time...

# strategic investment enables agile, dynamic data center

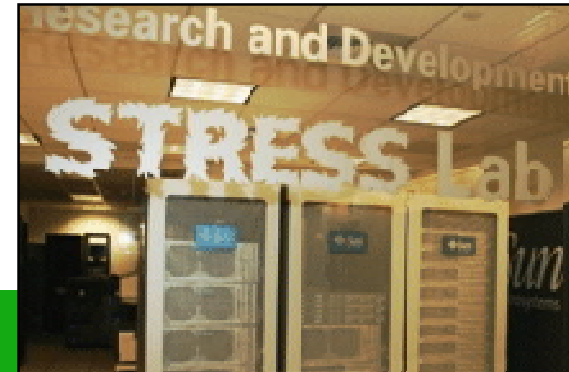


# self-service virtual lab

## CA Spectrum Automation Manager

### Private Cloud Success Story: CA LABS-ON-DEMAND

1. Private and public physical/virtual resource pools over NY, NJ, Calif.
2. 80+ developers/QA,  
100+ reservations in last week,  
80+ VMs in use per day



### Benefits

- Cost Savings
  - \$6.5M in labor savings to date
  - Server utilization up 50%
  - Lab consolidation — reduced lab locations from 19 to 4
  - Increased server to admin ratio by over 400%
- Agility
  - '3 clicks, not 3 weeks'

# why CA Technologies for virtualization management?

## ... Support the entire enterprise

- Not just VMware – multiple virtual & physical platforms, for servers, networks, storage, applications, security

## ... Integrate Service Management and Assurance

- Deliver virtualization management that is aligned with business service priorities, policies, and processes

## ... Start with tactical solutions, grow into strategic

- Solutions built to solve specific virtualization management problems, that scale and extend to the largest enterprises

## ... Built to drive the next generation data center

- From dev/test through dynamic hybrid, to off-premise cloud deployment, management, and assurance

## wrap up and summary where to now?

- Virtualization provides exceptional benefits ...  
... but also raise management challenges
- Virtualization management is critical to expansion ...  
... but you don't have to do it all at once
- Key values in virtualization management:
  - **Visibility** – into VM sprawl, app performance, configuration
  - **Assurance** – end-to-end, with application-aware policies
  - **Control** – fast, efficient business process execution

How can CA help you to deliver an agile, manageable, secure, low-cost IT environment, aligned to business service priorities?

Questions?

Thank you