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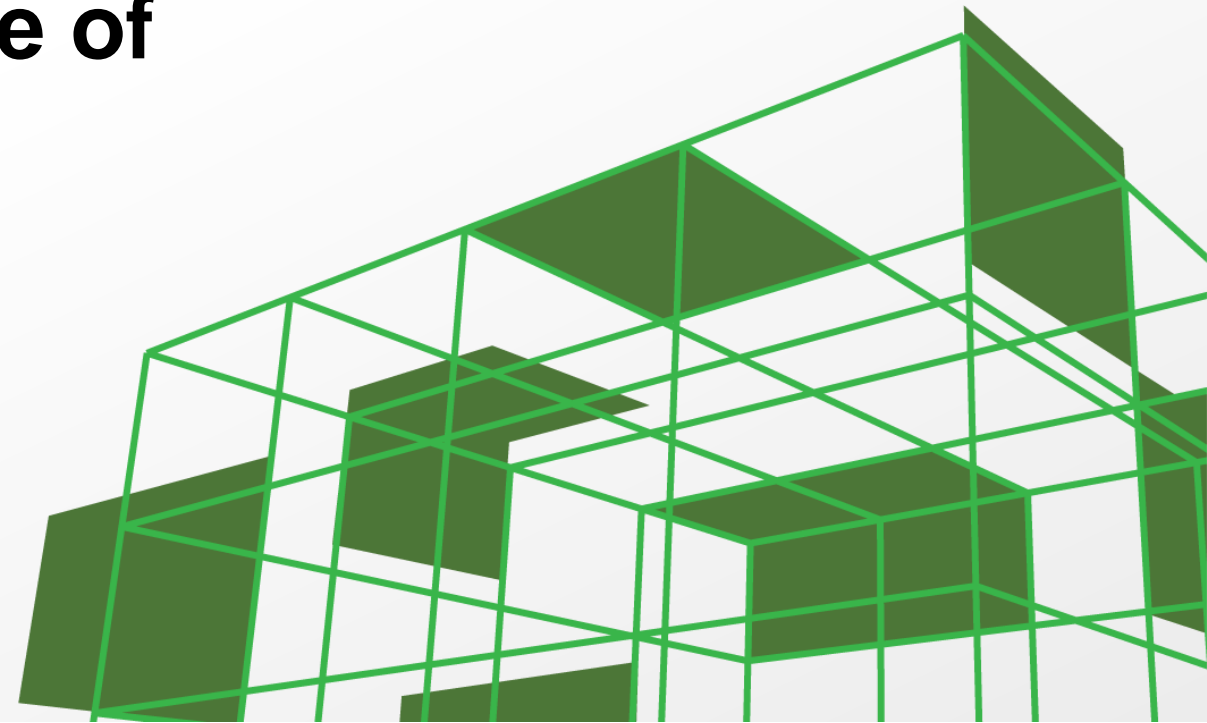
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Cloud Management in the Age of Digital Business

Dennis Smith



It Seems That Everybody's Doing Cloud Computing Now, How Are You Going to Manage It?

58%

Of 6,700 surveyed were currently using or deploying cloud services by year-end 2015



IaaS

PaaS

SaaS

Public

IaaS

PaaS

SaaS

Private

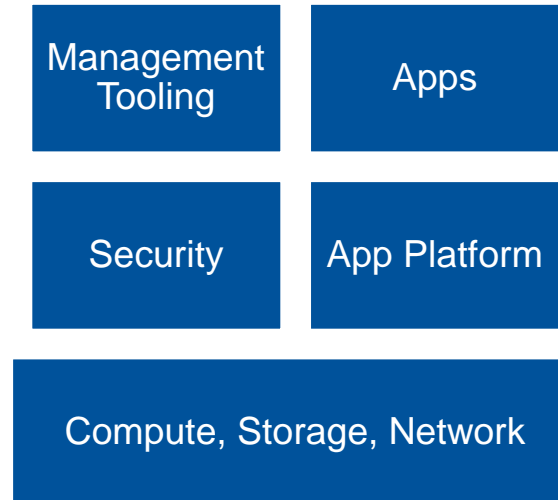
Key Issues

1. Why is cloud management important, and how does it differ from traditional IT operations management processes?
2. What technologies are available for cloud management?
3. What best practices should be pursued for success with cloud computing and cloud management?

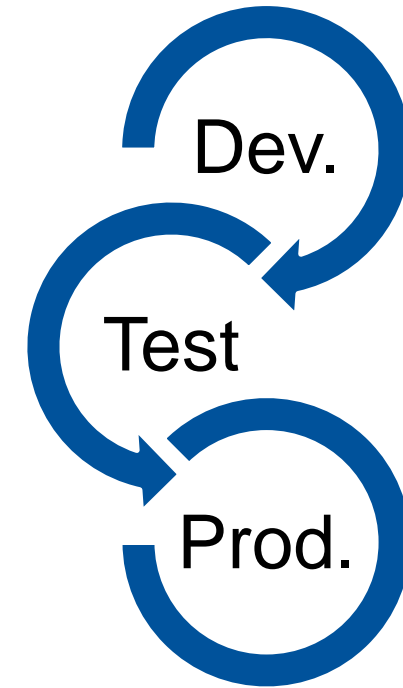
Cloud Management Provides New Methods for Automated Service Request, Provisioning and Life Cycle Management



Self-Service Request:
No More Tickets!
Brokered Cloud
Services.

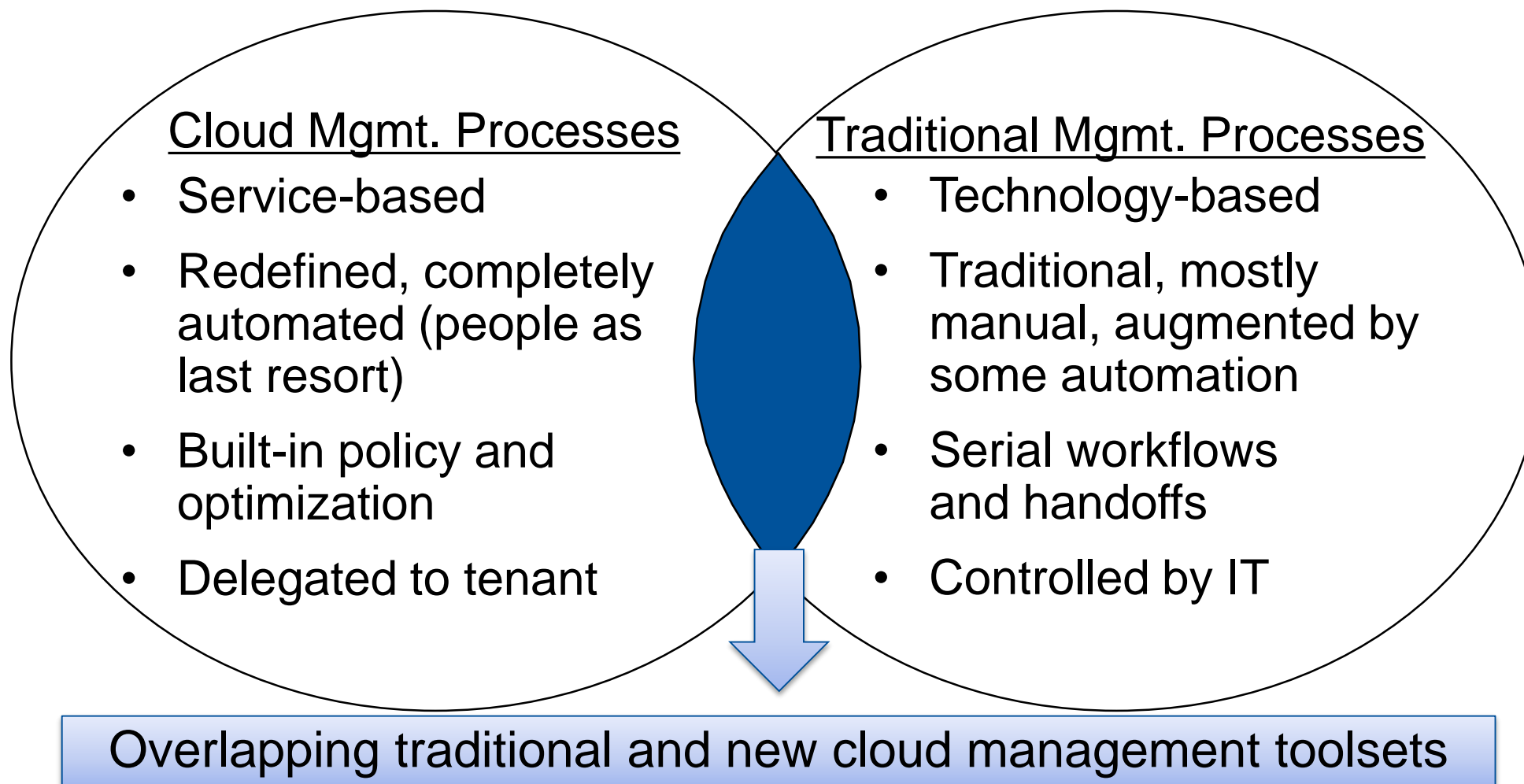


Automated
Provisioning to the
Right Place
No More Delays!



Support Continuous
Integration and
Delivery (DevOps)
Faster Releases!

Cloud Management Processes Built for Policy and Automation



Key Benefits of Cloud Management

- ✓ Increase business and operational agility
- ✓ Enhance operational service levels
- ✓ Broker and orchestrate IT services across providers
- ✓ Enforce standards and policies
- ✓ Optimize SLAs and costs
- ✓ Offload or delegate responsibilities
- ✓ Govern access and budgets
- ✓ Reduce lock-in



Source of graphic: www.istockphoto.com/photo/colorful-striped-birthday-gift-41332572?st=751fb1c

Polling Question

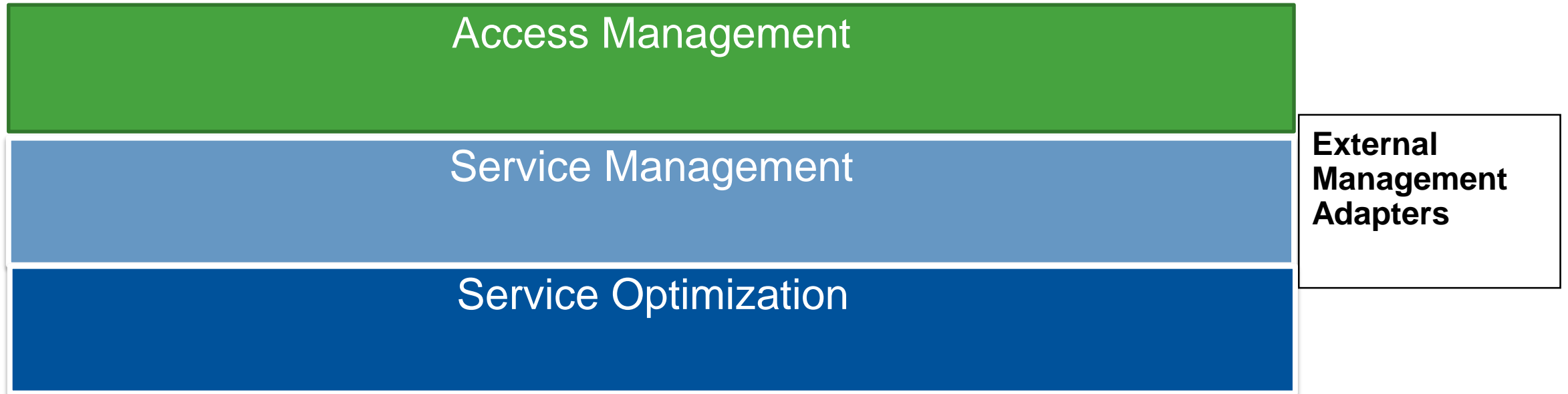
What best describes your cloud strategy?

1. We have developed a cloud strategy and have begun executing (i.e., using a range of cloud services)
2. We are now developing our cloud strategy.
3. We have yet to commence work on developing our cloud strategy.

Key Issues

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2. What technologies are available for cloud management?
3. What best practices should be pursued for success with cloud computing and cloud management?

Cloud Management Platforms: Offering Suite of Functionality



Hybrid Cloud Infrastructure and Platforms



Sample
providers



Gartner®

CMPs Tend to Do a Good Job With Either Private or Public Cloud Management

Born in the Public Cloud

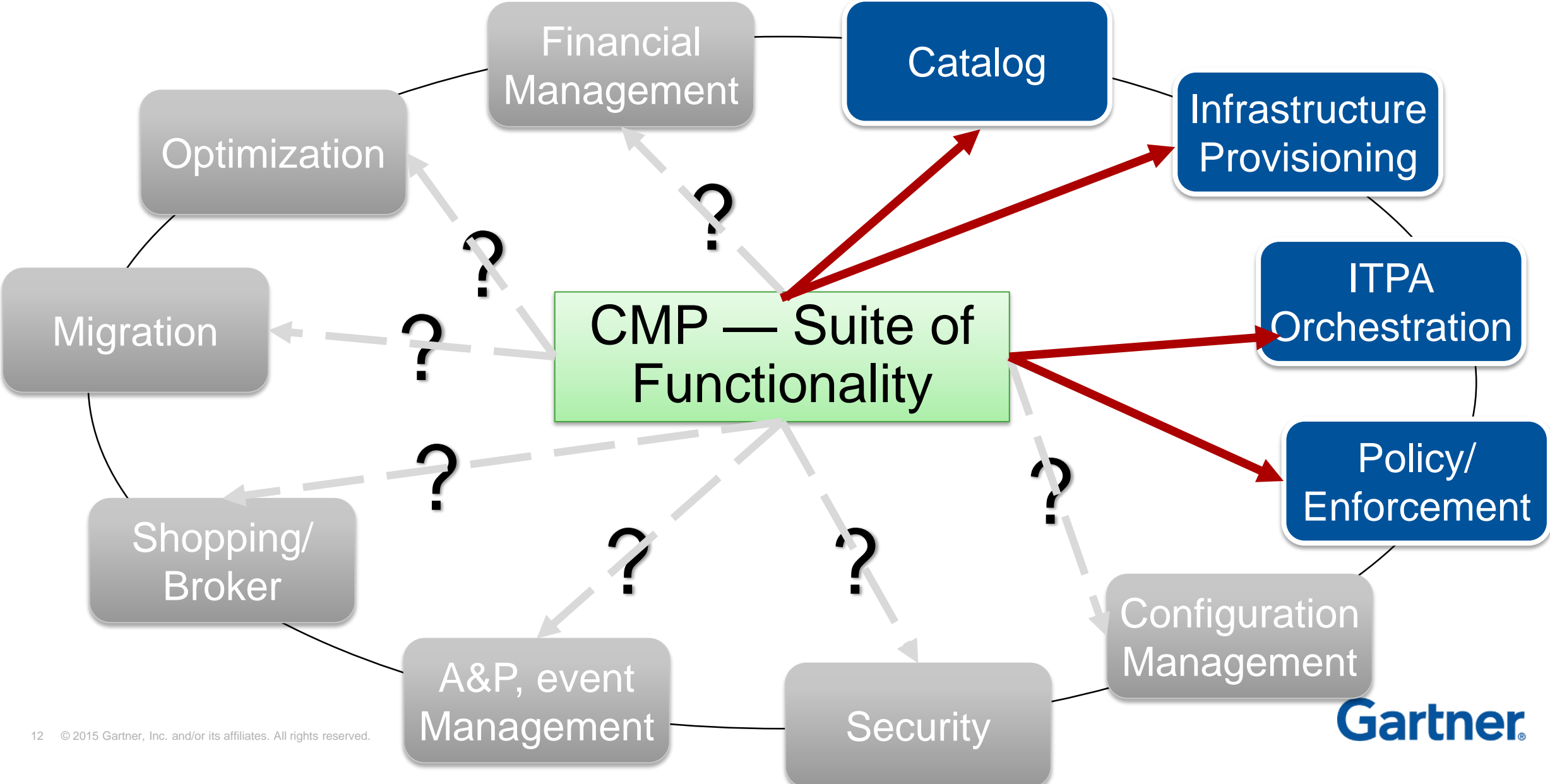
- Gigaspaces Technologies (open source)
- Microsoft
- RightScale
- Scalr (open source)

Born in the Private Cloud

- BMC
- Cisco
- HP
- IBM
- Red Hat (open source)
- VMware

Gartner Estimates No Vendor Has More Than 20% Market Share

Cloud Management Tool Categories



Strategic Planning Assumption

By 2019, 80% of large enterprises will require at least three tools to effectively manage cloud services up from 25% in 2015.

WHY

- Realization occurs after deploying cloud services that management is needed
- Entry points for managing public cloud are different than private
- Suites are never best-of-breed in all areas
- Technologies are shifting quickly

WHY NOT

- Suites may improve — it's a large addressable market
- Enterprises are rapidly developing cloud strategy so they may become more proactive with management
- The market is fluid, and there will be consolidations including of functionality for broader suites

Where Do You Get Cloud Management Tooling?

IaaS/PaaS Provider

- Native tooling
- Generally for their own platform or ecosystem, not broad hybrid cloud capabilities
- Gaps in management breadth and depth

CMP

- Suite of mgmt. functionality
- Multicloud mgmt.
- Portable apps if limit functionality use in public cloud

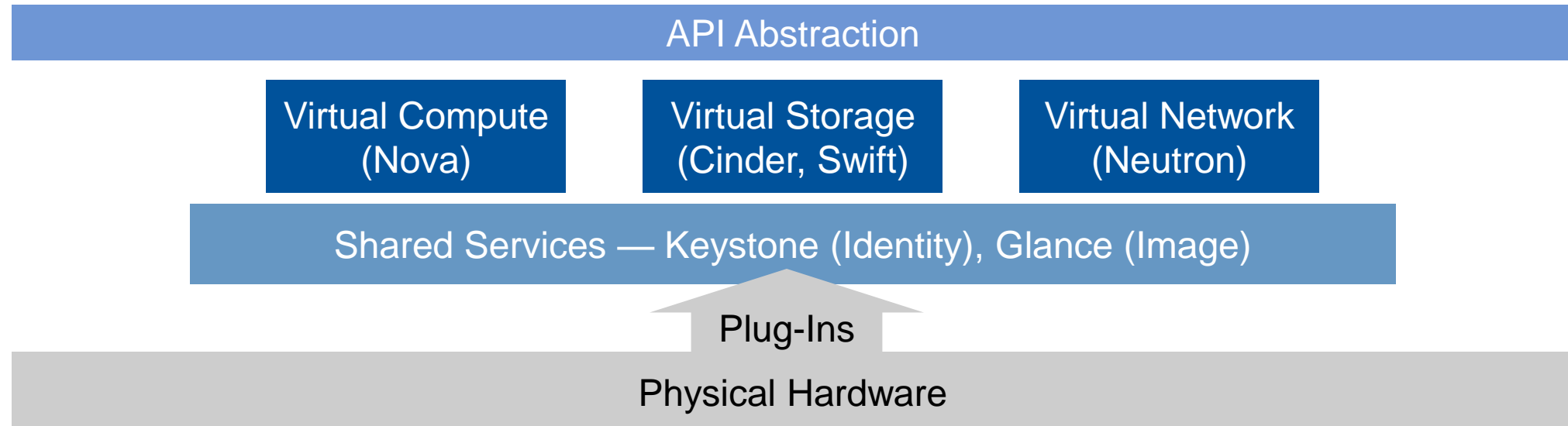
Other Cloud Mgmt. Tools

- Best-of-breed point tools for cloud mgmt.
- Single or multicloud mgmt.
- Tends to be less complex than full CMP
- Must stay two steps ahead of public cloud providers

OpenStack Is Not a CMP, but Has Some CMP Features



*Look Like
Public Cloud*



OpenStack is an open source framework for IaaS software. It offers SDDC from the users' point (not the providers') of view. It is the best chance for de facto standard private cloud APIs.

Containers Are Shifting the Cloud Landscape

- Immutable infrastructure is a best practice
- Horizontal scalable components that are ephemeral and replaceable
- DevOps drives app delivery best practices toward a CI/CD model
- Loosely coupled composition is desirable



Key Issues

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Gartner Recommended Best Practices for Success With Public and Private Cloud

Know your stakeholders

Define your success metrics (with stakeholders)

Agility/Speed; cost; flexibility (meeting new requirements); quality

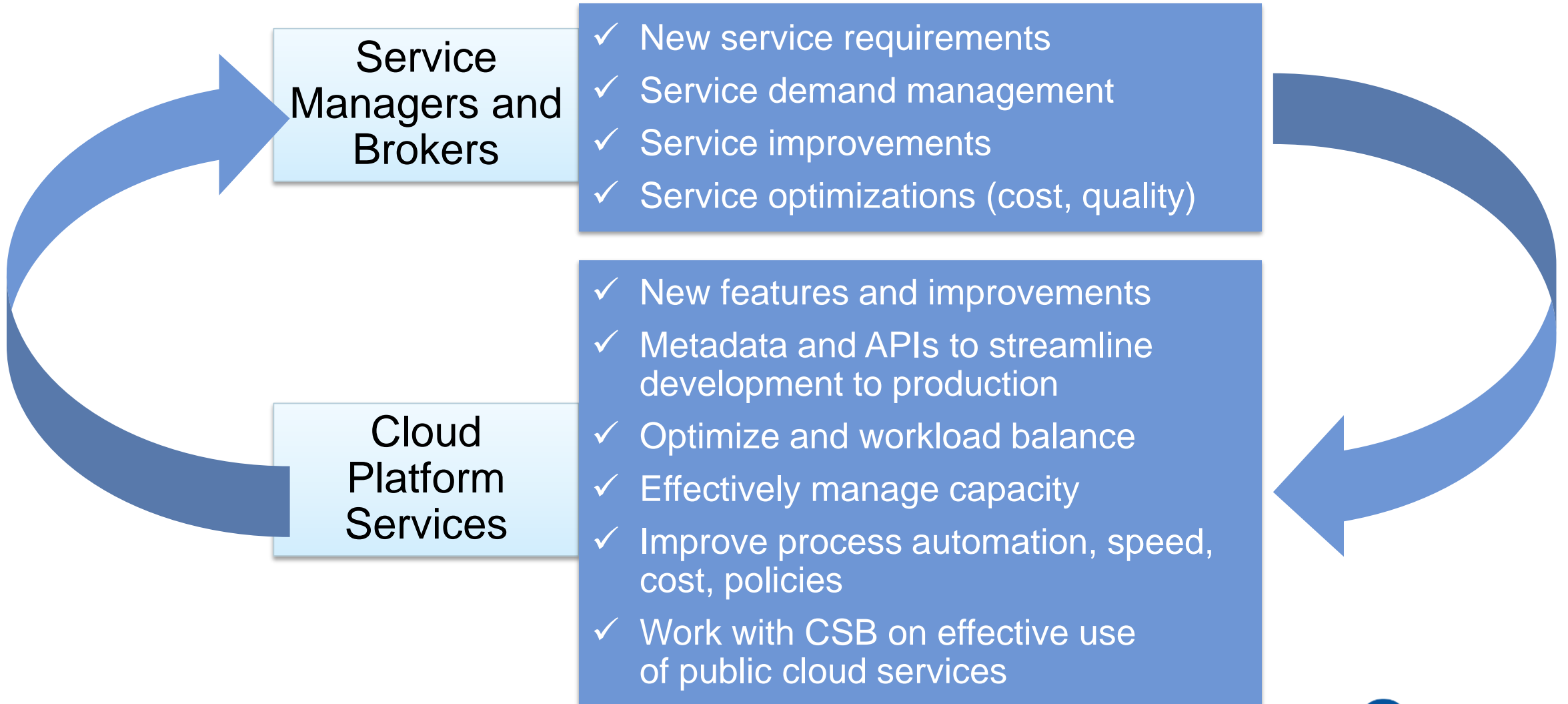
Benchmark against the alternatives (brokering)

Don't forget capacity management (for private cloud) and optimizing on metrics

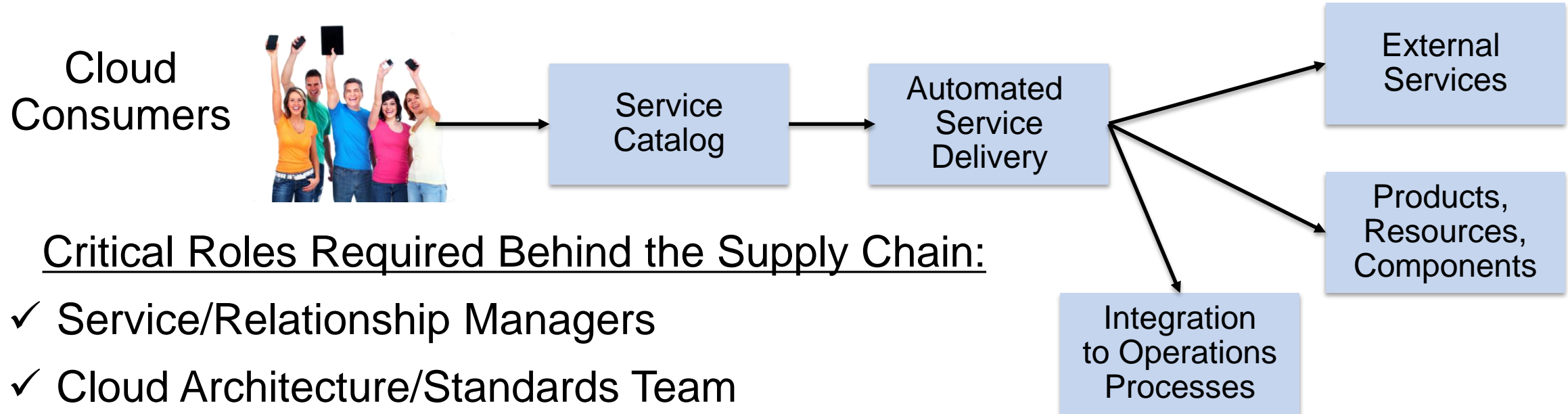
IT is not free: Showback/Chargeback

Implement new roles; start small and evolve; continually optimize

Continuously Improve and Optimize



Think Supply Chain and the Roles That Are Needed to Exploit Cloud Services



Critical Roles Required Behind the Supply Chain:

- ✓ Service/Relationship Managers
- ✓ Cloud Architecture/Standards Team
- ✓ Cloud Service Engineering and Delivery Team
- ✓ Cloud Platform Services (for Internal Delivery)
- ✓ Cloud Supplier Management Team
- ✓ Cloud Service Broker
- ✓ IT Finance

Action Plan for I&O Leaders and Cloud Architects

Monday Morning:

- *Gain* visibility into cloud usage across your enterprise.
- *Identify* desired business outcomes from your cloud initiative.

Next 90 Days:

- *Invest* in roles to assure success with cloud computing management and governance.
- *Identify* your workloads, and where they should run (private or public).
- *Select* cloud management tools to enforce policy and governance over cloud services.

Next 12 Months:

- *Execute* on your cloud computing strategy focusing on key stakeholders and outcomes.
- *Optimize* cloud architecture and services.

Recommended Gartner Research

- ▶ [Technology Building Blocks for a Successful Private Cloud Deployment](#)
Dennis Smith (G00269969)
- ▶ [Exploring Cloud Management Trends and the Actions to Take](#)
Donna Scott, Dennis Smith and Milind Govekar (G00236106)
- ▶ [When IT Leaders Should Select Private Over Public Cloud Services](#)
Donna Scott (G00273092)
- ▶ [Market Guide for Cloud Management Platforms: Large, Emerging and Open-Source Software Vendors](#)
Dennis Smith, Donna Scott and Milind Govekar (G00271709)
- ▶ [Improve Cloud Computing Success With Cloud Management](#)
Donna Scott (G00279902)

For more information, stop by Gartner Research Zone.



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- Mastermind Interview Keynotes with industry leaders
- ITxpo exhibit floor with hundreds of top solution providers and exciting startups



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September 26 -28	Cape Town, South Africa
October 5 - 7	Tokyo, Japan
October 16 – 20	Orlando, FL

October 24 – 27	Sao Paulo, Brazil
October 24 - 27	Gold Coast, Australia
November 6 – 10	Barcelona, Spain
November 15 – 18	Goa, India

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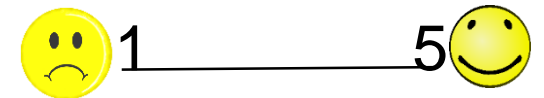
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