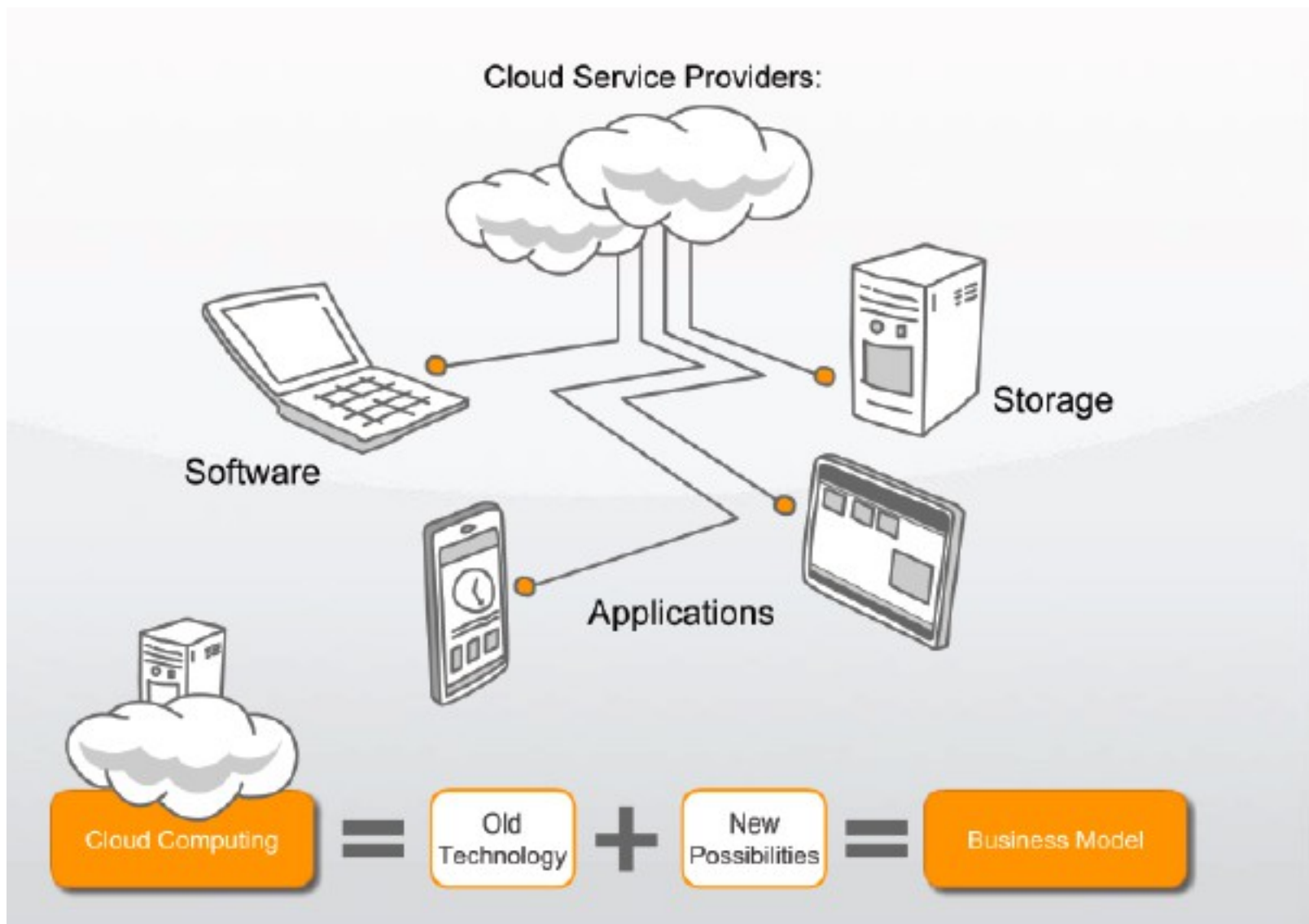




Cloud Computing Implementation

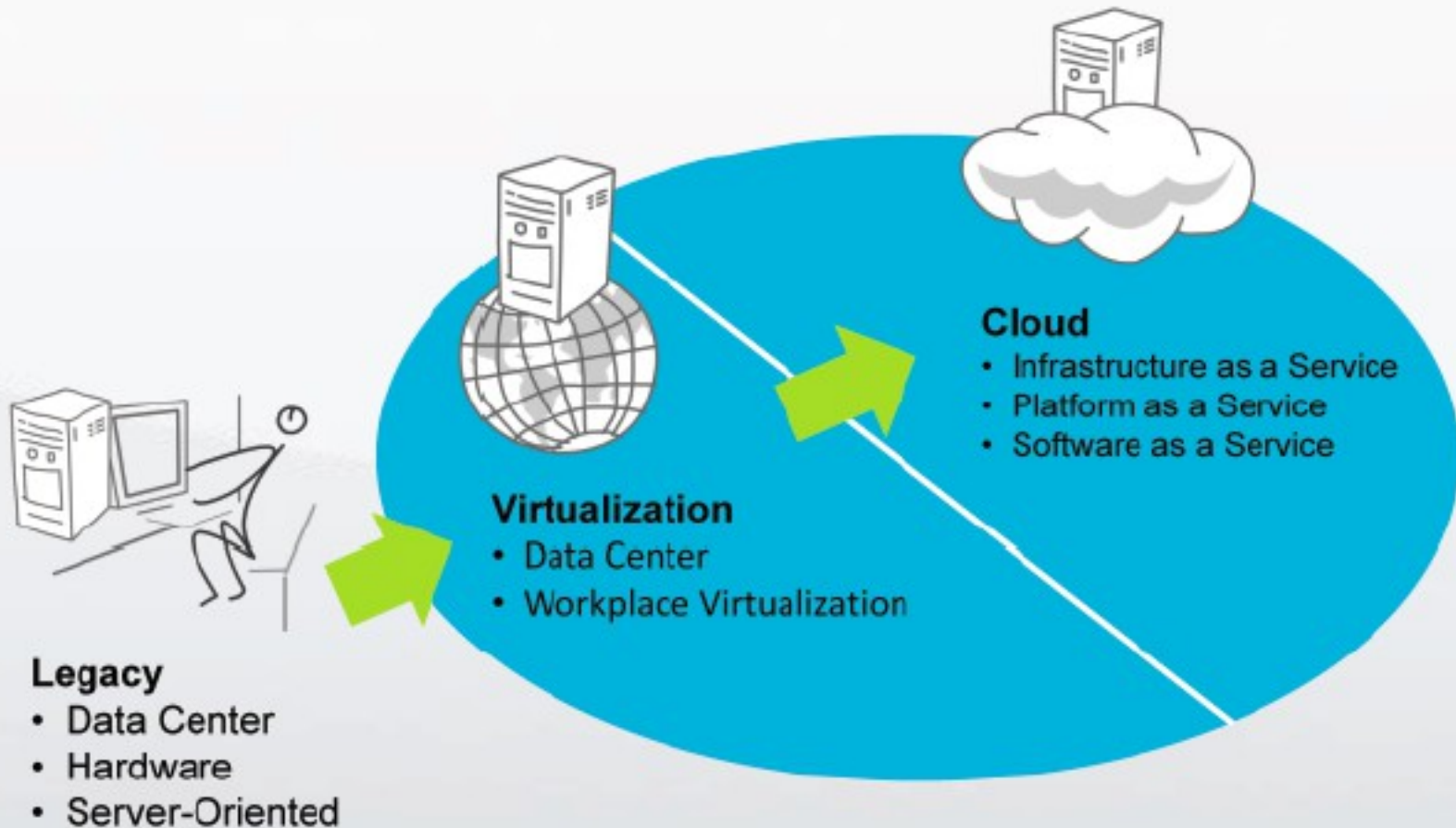
Assoc. Prof. Dr. Thanachart Numnonda
Executive Director
IMC Institute
3 October 2014

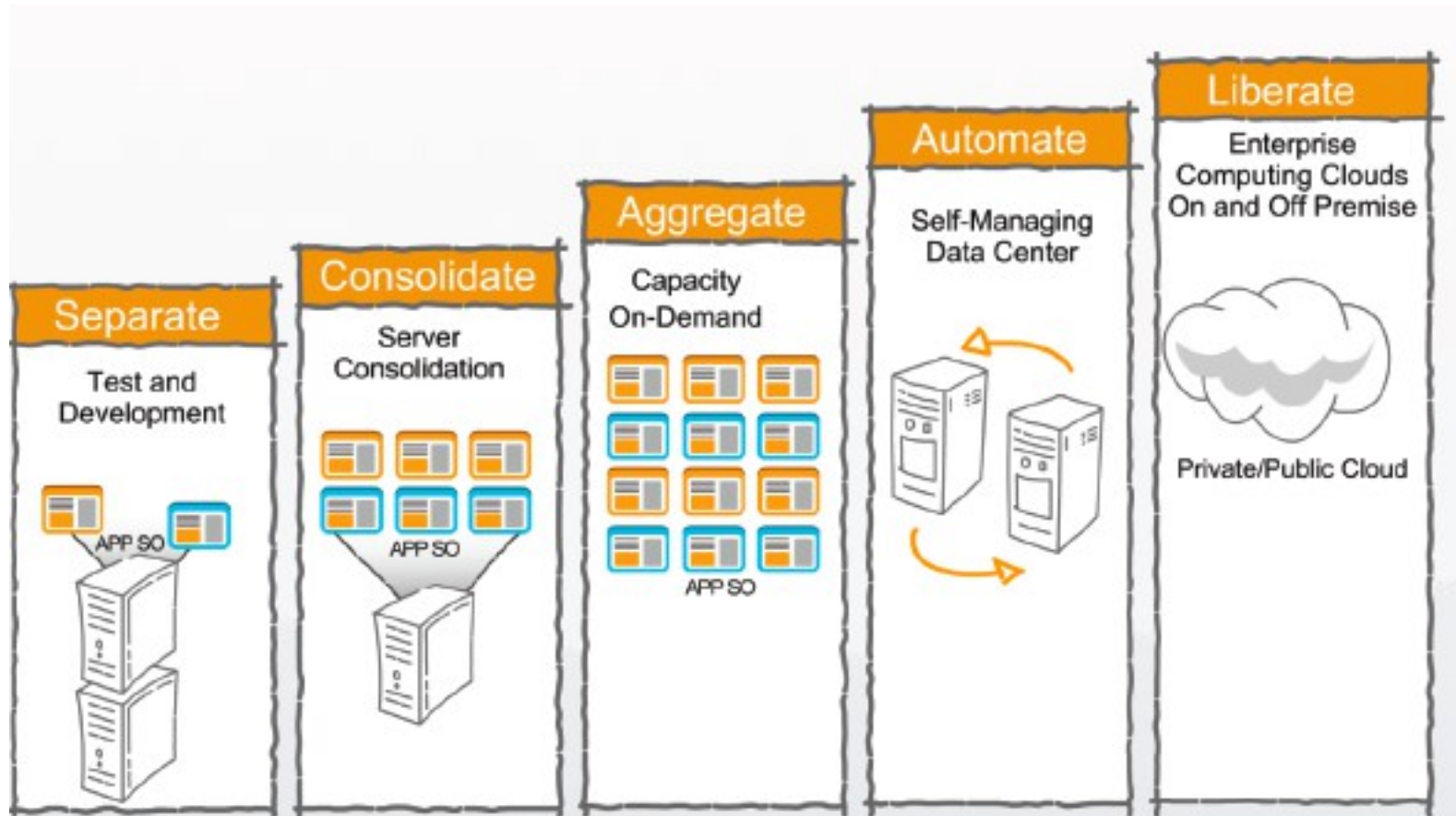
Cloud Computing Definition

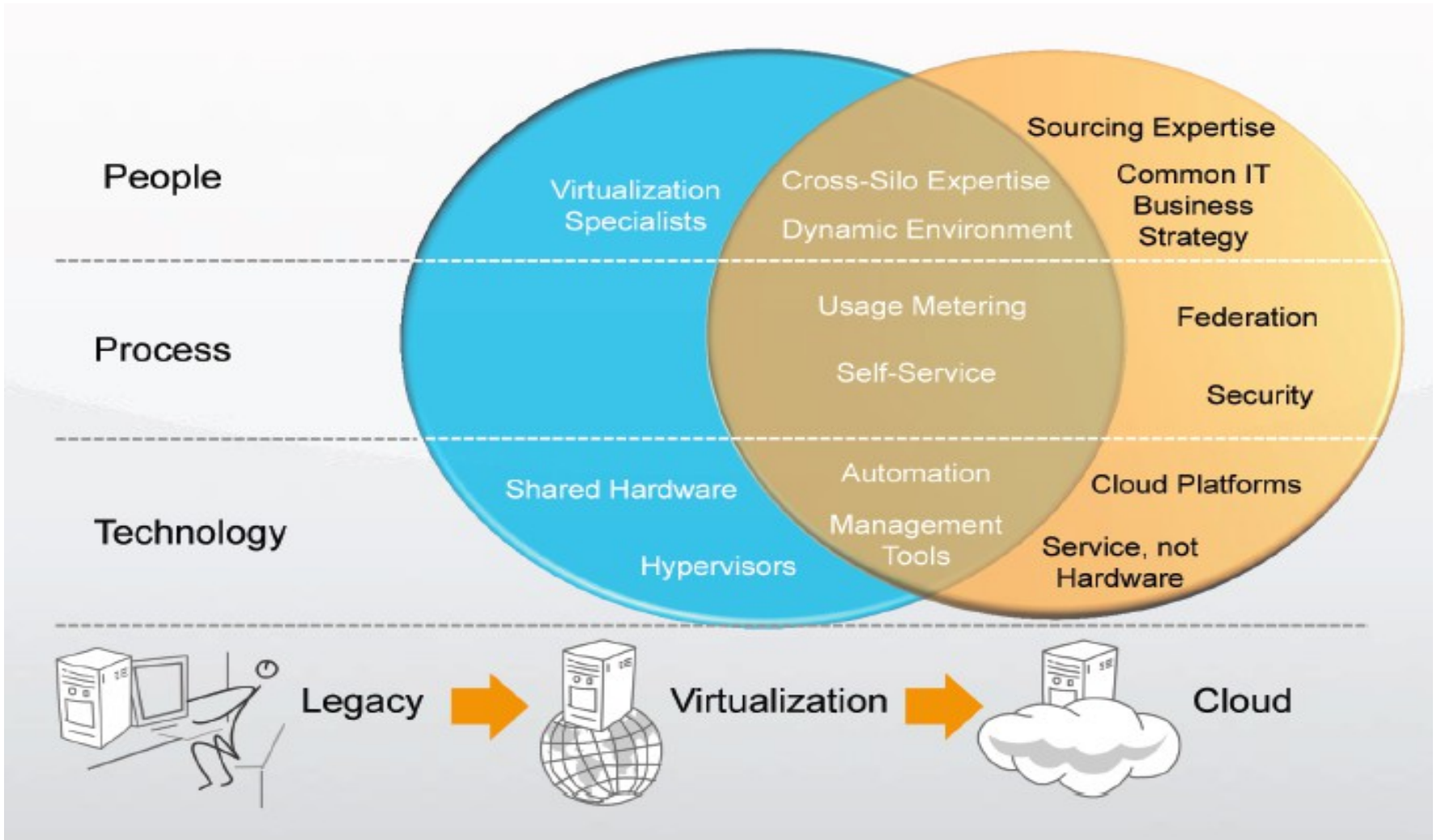


Source: IT Preneurs Cloud Essentials

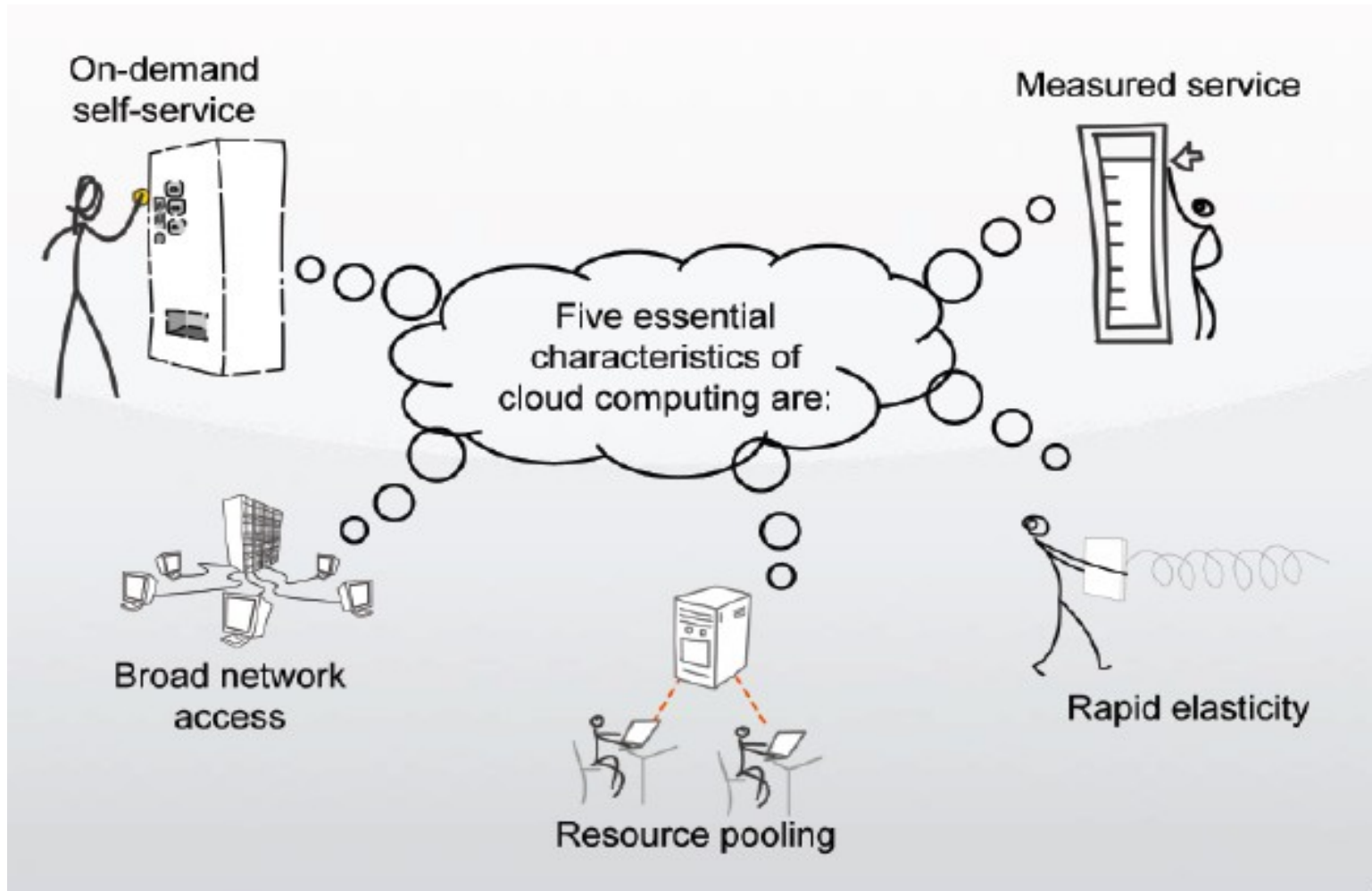
Virtualization is an **enabling technology** for cloud computing.







Cloud Characteristics



Cloud Computing change IT as electricity industry



Service Models

Software as a Service (SaaS)

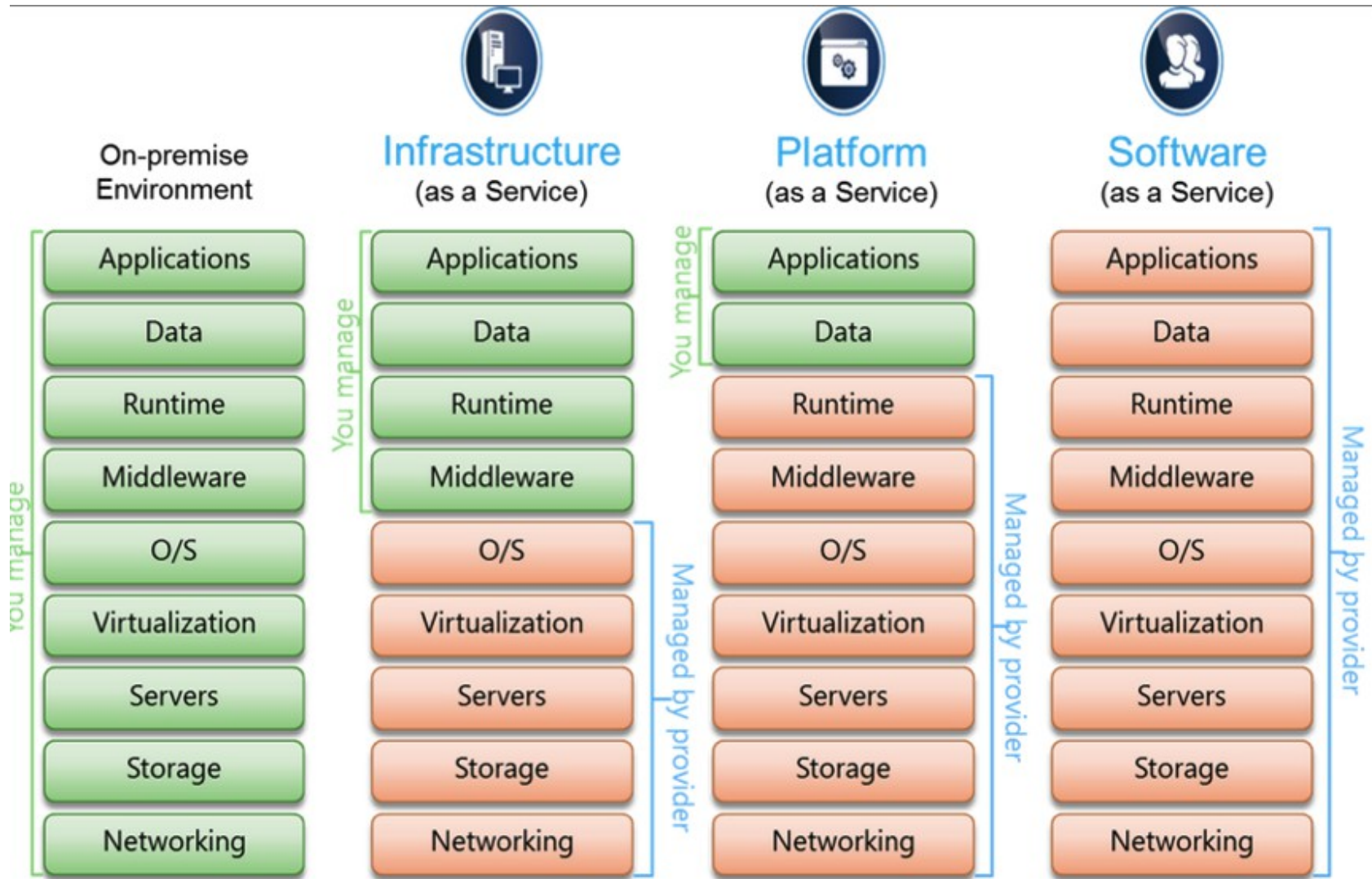


Platform as a Service (PaaS)



Infrastructure as a Service (IaaS).





Deployment Models



 On-site or outsourced

Impacts!

Change! In IT Industry

- It's not just a platform change.
- Vendors can't charge the same amount.
- It's changing your world.

The Sydney Morning Herald

itpro



Adobe

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Opinion

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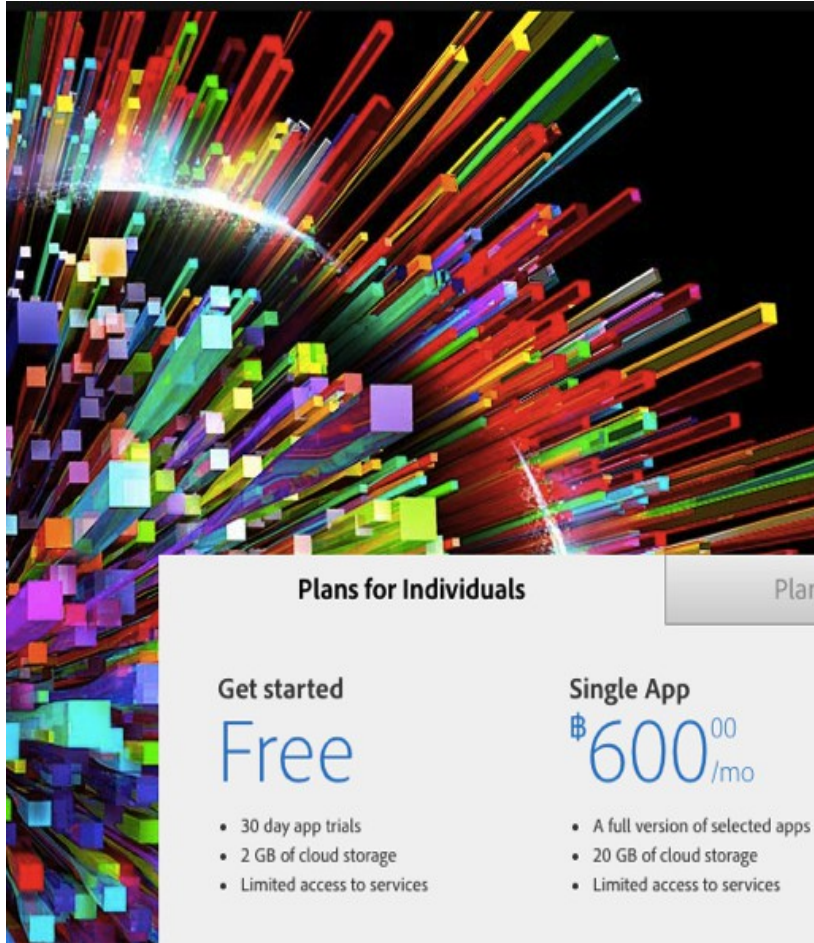
Adobe kills packaged software, bets on cloud alone

May 7, 2013

Comments **110**



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3 เท่า พื้นที่บน SkyDrive 27 GB 60 นาที Skype ต่อเดือน 5 พิธีหรือแบบละ: อุปกรณ์เคลื่อนที่

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"Salesforce allows us to innovate continuously, finding new ways to bring exceptional service to our customers"

– Kannikar Chalitaporn
President

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3:05

IaaS Impacts!

- Local data centers will provide cloud services
- IaaS is not just a normal hosting; it requires large investment on a data center.
- Different architecture and business model.
- Fewer large cloud data center in ASEAN will survive
- Need to compete with big giants; Amazon, Google, Oracle, etc.

 **amazon.com**[®]



IaaS

Figure 1. Magic Quadrant for Cloud Infrastructure as a Service

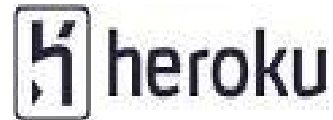


PaaS/SaaS Impact

- Software development will shift toward the cloud.
- Software company may develop their applications on public IaaS/PaaS; Microsoft Azure, Google App Engines, Heroku, Amazon S3
- Require new skills
- Opportunity to sell aboard.



Windows Azure®



Enterprise Application Platform as a Service (aPaaS)

Figure 1. Magic Quadrant for Enterprise Application Platform as a Service



Figure 1: Top 10 SaaS revenues amongst the Global 100

Company	Country HQ	2011 SaaS revenue (US\$M)	2011 software revenue (US\$M)	SaaS revenue as % of software revenue
Salesforce.com	US	\$1,848	\$2,008.7	92.0%
Intuit	US	\$950	\$2,456.5	38.7%
Cisco	US	\$831	\$1,796.9	46.3%
Microsoft	US	\$788	\$57,668.4	1.4%
Symantec	US	\$572	\$6,330.3	9.0%
Google Inc.	US	\$462	\$575.6	80.3%
Oracle	US	\$446	\$26,175.9	1.7%
Adobe	US	\$410	\$4,154.1	9.9%
Blackboard	US	\$396	\$411.7	96.2%
DATEV	Germany	\$395	\$974.2	40.5%
Total		\$7,098	\$102,552.16	6.9%

IDC projects subscription revenue (including SaaS) to grow at a 17.5% compounded annual rate, reaching 24% of total software revenue by 2016.



Annual growth in license revenue



Subscription revenue (including SaaS)

Personal Clouds

- Personal clouds are becoming a way to store and manage our personal data and documents.
- Personal clouds will be the way to store personal data.
- Personal clouds API



Dropbox



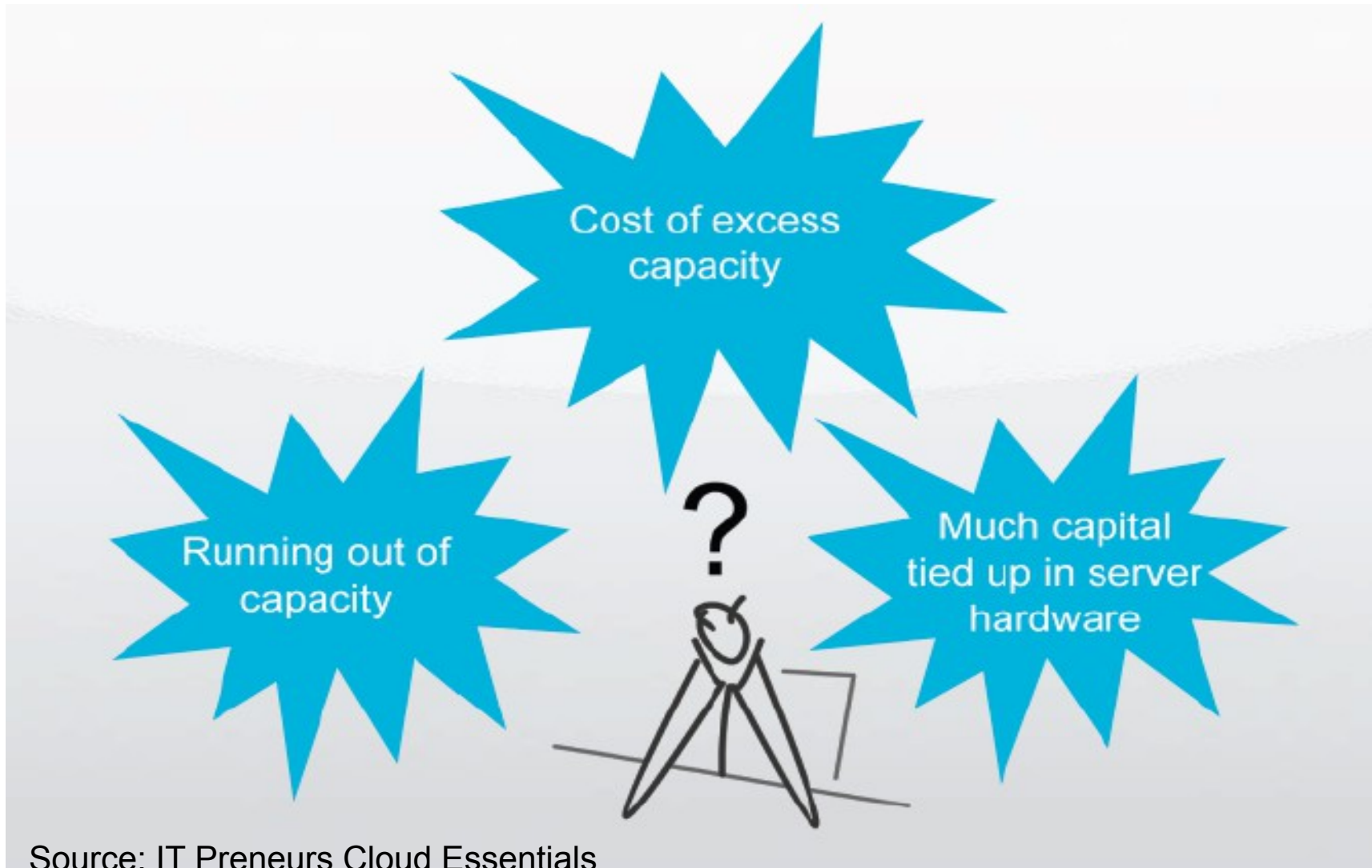
Google Drive

Cloud Maturity Level

Level	1: Performed	2: Defined	3: Managed	4: Adapted	5: Optimized
<i>Focus</i>	<i>Functionality</i>	<i>Competency</i>	<i>Effectiveness</i>	<i>Responsiveness</i>	<i>Automation</i>
<i>Benefits</i>	<i>New features</i>	<i>IT cost savings, avoidance, and control</i>	<i>Time-to-market and agility</i>	<i>Real-time, event-driven and measurable outcomes</i>	<i>Utility as a result of commoditization and industrialization</i>
<i>Success Factors</i>	<i>On-ramp learning, Retooling</i>	<i>Consolidation, Standardization</i>	<i>Alignment, R&D</i>	<i>Best practices, Governance</i>	<i>Thought leadership, Innovation</i>
SaaS	Isolated use of tactical Web-based applications, and ad-hoc SOA	Selected enterprise collaboration applications such as email, productivity tools, and solution development/testing	ERP: Enterprise resource planning (CRM, Financials, HR)	Customize cloud applications and seamless B2B	Enterprise-wide 0-software execution with coordinated integration with partners
PaaS	Internal shift to basic programming platforms, such as Java EE, .Net, Ruby on Rails	Utilize full-blown stack platform internally, like SCA, SEAM, Jboss, CMS	Spin-off home grown apps into cloud service platforms like Hadoop, Nebula	Revamp existing applications towards industry mainstream platforms like Facebook, force.com	Develop bespoke apps on off-premise cloud platforms, such as Google App Engine, MS Azure
IaaS	Apply virtualization in internal data centers, such as Xen, VMWare, and Hypervisor	Move selected hosting components to Managed Service Providers (MSP)	Build private clouds and simplify infrastructure by cloudification	Employ on-demand public cloud services (EC2, S3) and explore hybrid cloud	Corporate-wise 0-infrastructure implementation leveraging interoperable clouds for reliable multi-provider SLA

Cloud Adoption Startegy

Cloud & Virtualization overcome

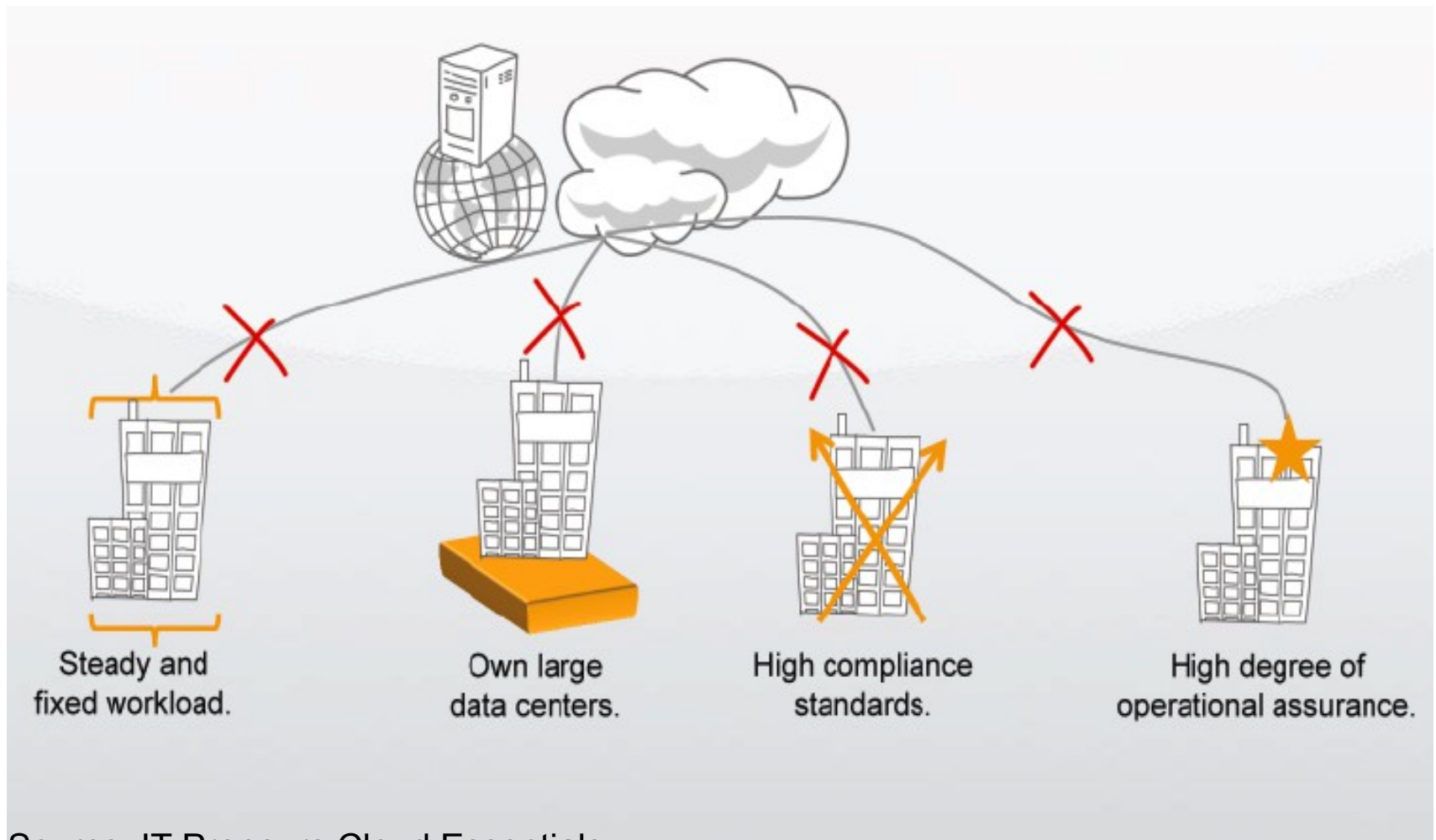


Source: IT Preneurs Cloud Essentials

Organization suitable for Cloud

- Business is changing rapidly like growing or shrinking on a seasonal basis
- Capital is scarce or expensive
- Technology or business is immature
- Senior management is not ready for long-term commitment.

Organization not suitable



Source: IT Preneurs Cloud Essentials

Applications Selection

Suitable Apps

- Application development and Testing
- Business Continuity
- Batch and data intensive App
- Peak load App
- Desktop Productivity App
- Community SaaS App

Less Suitable Apps

- Legacy Application
- Mission Critical Application
- Marginal Application

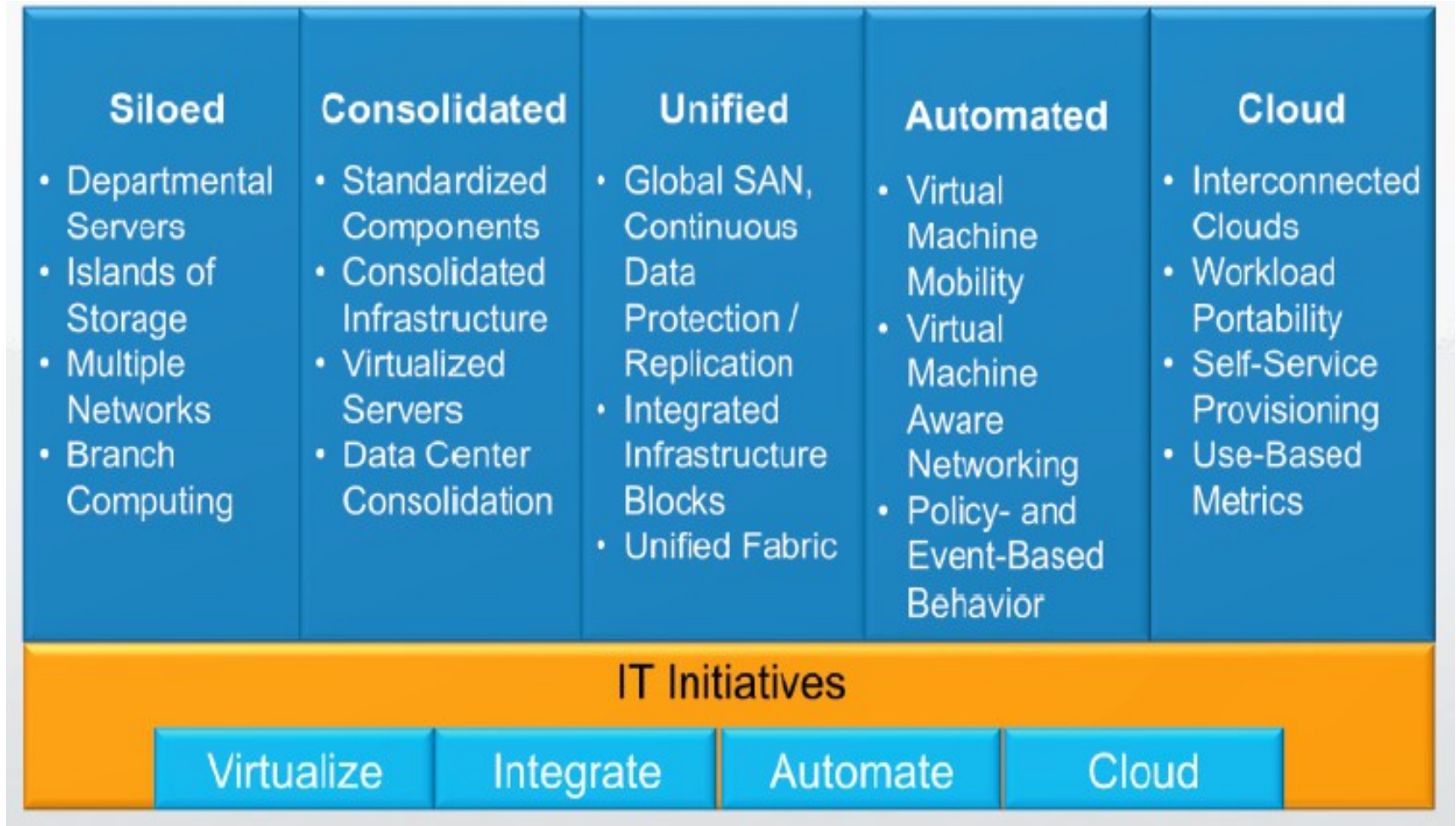
Role & Skills

Articulating the business value

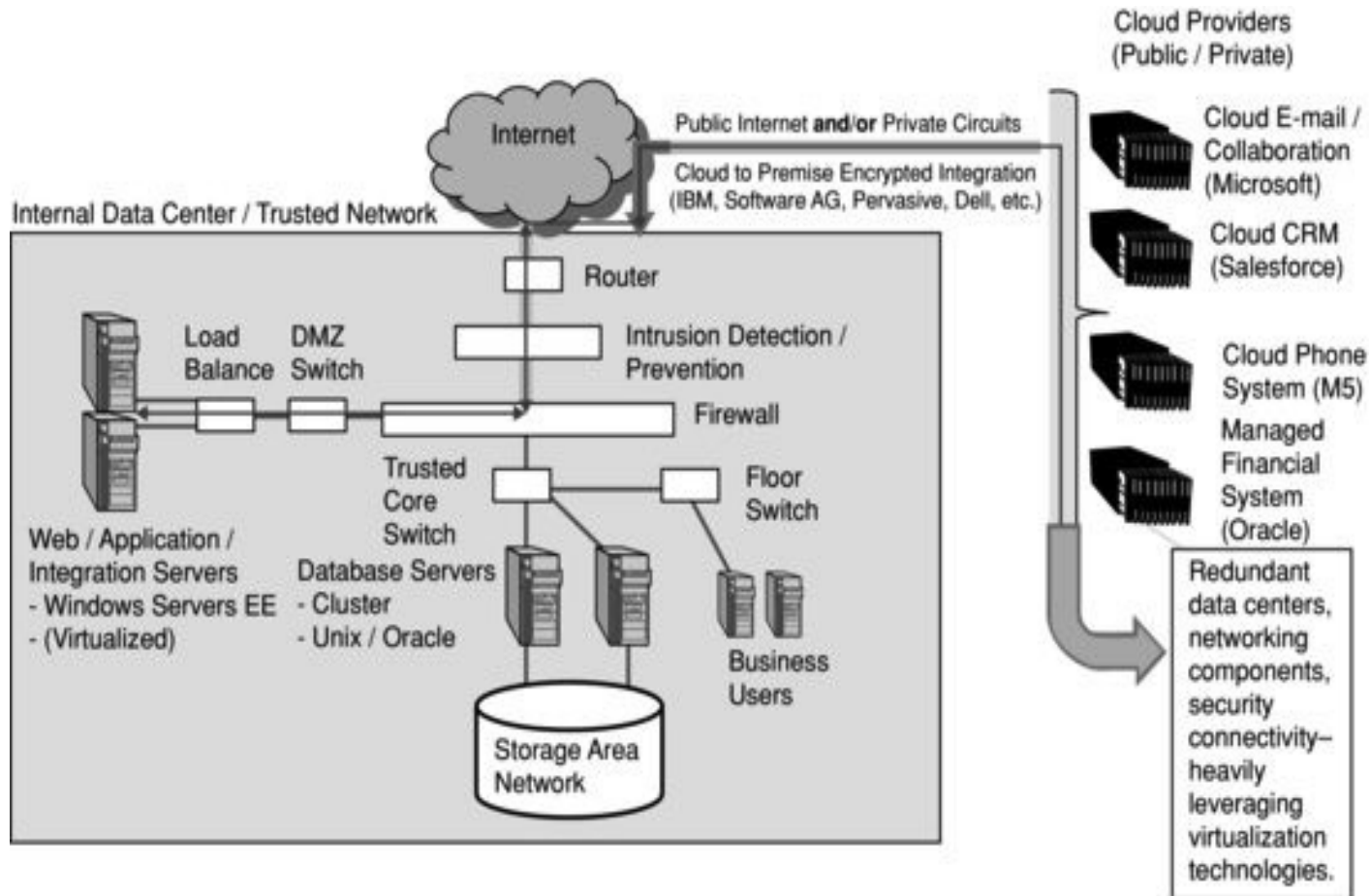
- Employing service-oriented architecture
- Evaluating applicability of cloud service models
- SLA
 - Mapping service level agreement (SLA) requirements to offerings
 - Negotiating the parameters
 - Managing the contract
- Configuration, integration, and provisioning of services
- Managing workload on shared resources
- Measuring, monitoring, metering, billing, and reporting
- Understanding performance characteristics
- Employing financial engineering
- Managing security, access protection, and risk
- Purchasing, procurement and sourcing



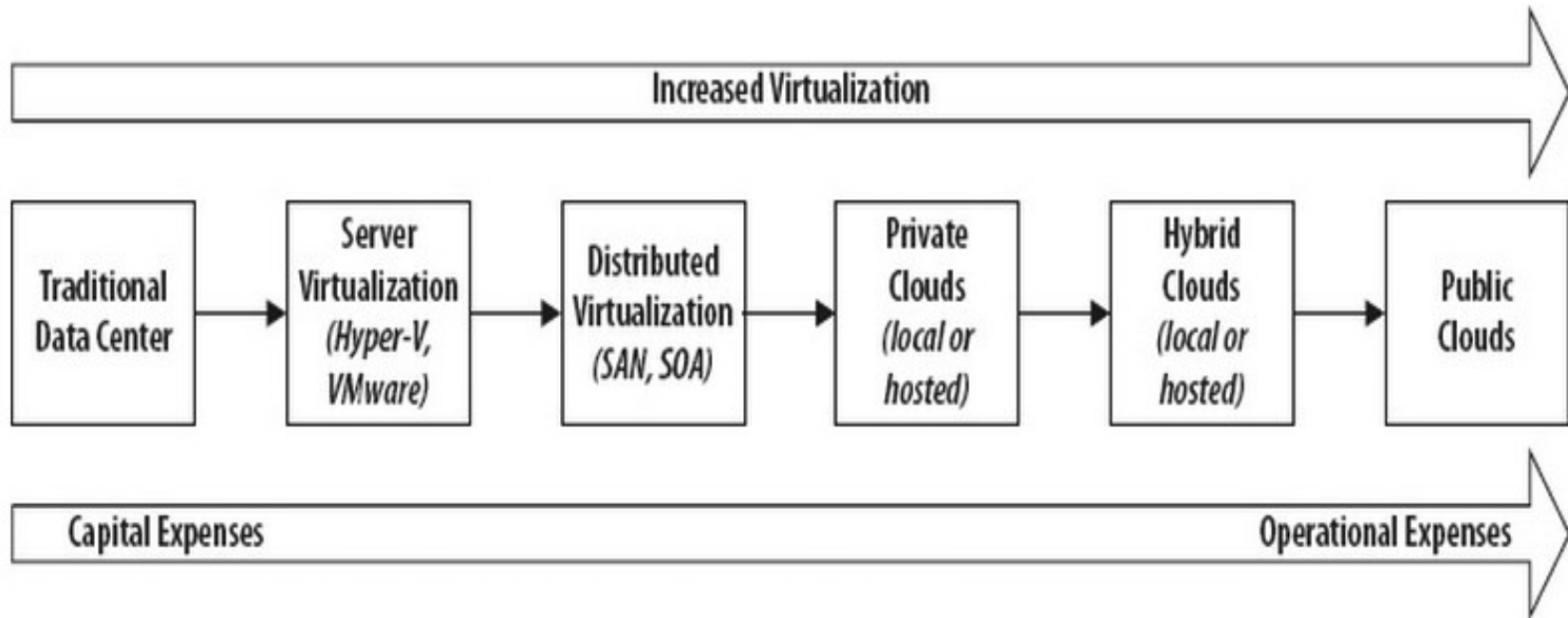
Approach to build Cloud



Cloud/Integration Architecture



Steps to go to the public cloud

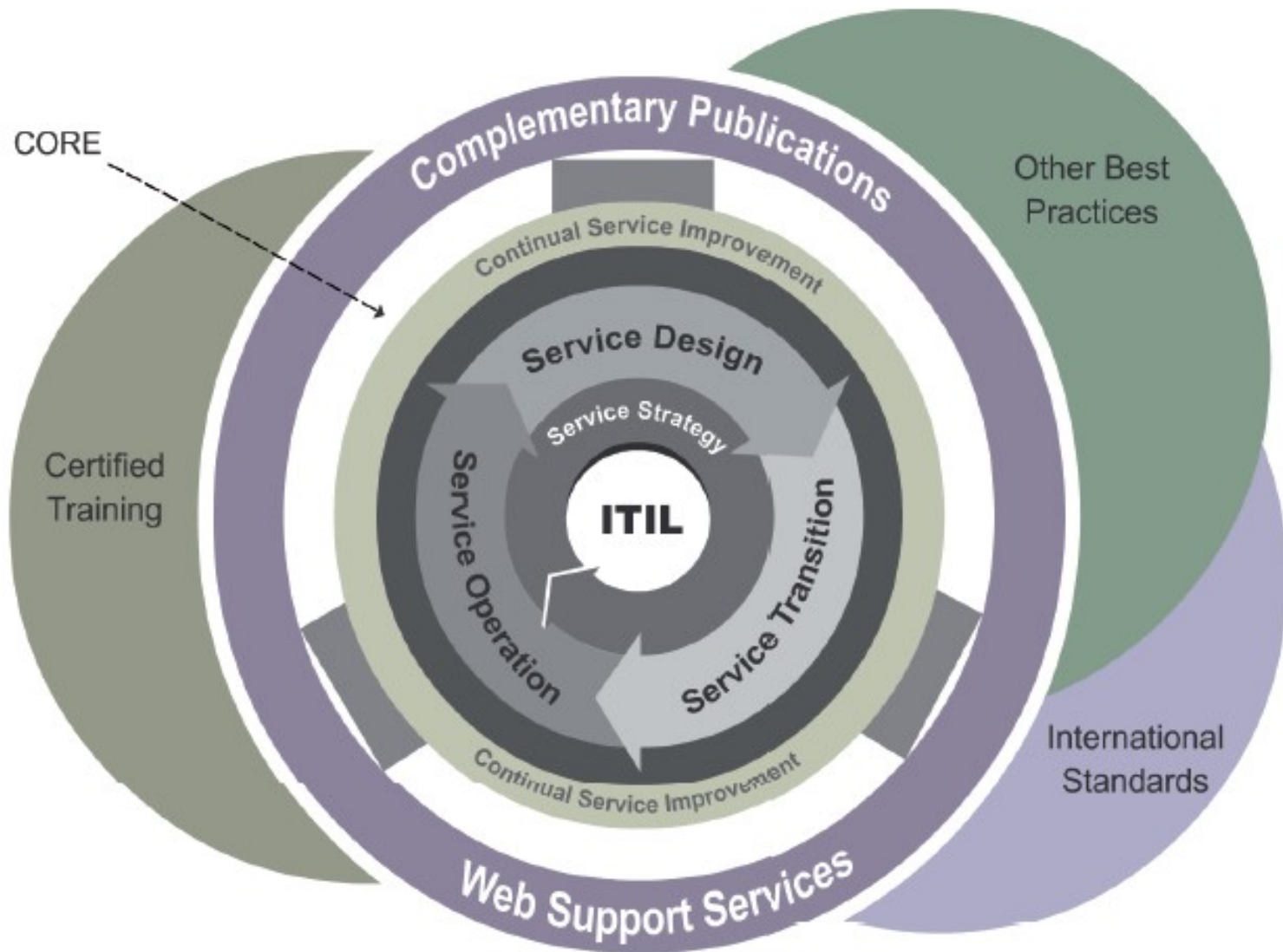


How to Prepare for the Cloud?

- What is the organization's risk profile—high, medium, or low?
- Are your data centers and corporate offices optimized for the cloud?
- Transform the desktop and mobile environments to empower the users.
- Determine which applications should be moved to the cloud and define your portfolio of on-premise, private cloud, and public cloud resources and vendors.

How to Prepare for the Cloud? (cont.)

- Determine the security and monitoring
- Develop and/or refine your SLAs
- Industrialize IT operations to improve productivity, monitor performance, and manage internal and cloud services.



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