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### Strategia ed evoluzione dei prodotti Tivoli per il Cloud Computing







### Agenda

Cloud management at all stages of adoption

Roadmap update









As enterprises move beyond <u>virtualization</u> to higher value stages of Cloud, having Cloud Management is critical to their success.

Organizations need progressive capabilities as they manage their Clouds





# Virtualization Optimization

Get Maximum value out of your virtualized





"Virtualization without service Management is even more dangerous than not virtualizing in the first place" - Gartner







- You have virtualized but have you optimized?
  - **1.**How do you know what is running in your Images? Which ones have critical security vulnerabilities? Which ones have blown up your license counts?
  - 2.Can you achieve 98.5% first pass patch compliance across 250K images with 1 server using 1 console?
  - **3.**Can you monitor physical and virtual resources from Storage and VMs up to the application?
  - **4.**Can you run capacity analytics to reduce bottlenecks and improve utilization by 75%?
  - 5.Can you back up 1000 VMs in 34 mins?

6.Can you create and standardize application patterns to reduce application deployment time by 99%?



Can you achieve these outcomes in a single, integrated, extensible, standards based solution that plugs into your existing environment?



#### Optimize your Virtualized Investment Optimization can be in one or more entry points based on need





# Cloud Enabled Data Center

Enable Infrastructure Agility and Automate cross domain service delivery across your entire data center





You optimized your virtual environment, but do you have dynamic infrastructure agility?

- 1.Can you automate and orchestrate services across Intel, Power, and Z running a mix of ESXi, KVM, PowerVM, Xen, HyperV, and zVM?
- 2.Can you reduce effort and time to deploy an application and automate its attachment to your management systems by 95%?
- 1.Can you respond faster to business needs by reducing storage and networking provisioning by 85% ?
- 2.Can you analyze capacity to reduce bottlenecks and improve utilization by 75%?
- 3.Can you improve reuse with public cloud services by reducing hybrid integration time by 80%?
- 4. Is your metering framework extensible enough for predicting and measuring storage and networking usage and costs?



Can you achieve these outcomes in a single, integrated, extensible, standards based orchestration engine?



### The IT challenges

#### Infrastructure

We have lots of tools, to manage isolated automation tasks

But getting everything coordinated is challenging and takes a lot of time

#### **Operations**

Releasing a new application in production is a lot more then creating a virtual machine.

I need to link tens of different tools, people, departments. It takes weeks.

#### **Development**

I need to accelerate delivery and improve feedback between development and production.

#### **Business**

I need to **react quickly to market demand**. IT is not fast enough to support my strategy and is slowing down innovation





### Manage your Dynamic Data Center with Flexibility

"I need to drive down the cost of administering our applications and environments "

Integrated, optimized platform for designing workflows to fully customize servicers offered to users



#### IBM Advantage:

•OOTB content for configuring common resources

•Open, extensible platform to integrate with 3<sup>rd</sup> party resources

Seamless integration to IBM management solutions to facilitate cross/up sell

#### Benefits:

Up to 70% reduction in change-related outages
More than double storage utilization to 82% and reduced their reliance on Tier 1 storage by over 50% [Sprint]
91% ROI with breakeven of 1.1 years after APM deployment

•Reduction in outages by 30%-40% to save an average of \$500,000 per year [CIB Bank]



## **DevOps**

Accelerate application updates to respond faster to stakeholder demands and competitive threats





Are you able to improve delivery efficiency, application quality, and performance of your application lifecycle?

- **1.** Can you deliver updates to your key applications <u>every day</u>?
- 2. Can you reduce the application environment deployment time by 50%?
- **3.**Can you reduce outages caused by production roll-outs by **40%**?

Can you achieve these outcomes in a single, integrated, extensible, standards based solution that facilitates continuous feedback and automation between development and operations?







## **Roadmap update**





### Moving to an integrated offering structure

- Convergence into a 3 tier structure, with increased Client Value at each tier
- Creation of common, standards based architecture
- Clean upgrade paths with progression







**Bundle Option** 

**Common Cloud Stack** 

**Factory Integrated** 

### Support an Evolutionary Approach

- Convergence into a 3 tier structure, with increased Client Value at each tier
- Creation of common, standards based architecture
- Clean upgrade paths with progression





### What is SmartCloud Orchestration?

# An open and scalable cloud platform

# An easy to use orchestrator for cloud service automation



# A marketplace for content sharing and re-use



A rich set of ready to use automation library







A typical scenario: create a new cloud service to deploy SAP

Step 1 – Graphically compose the application topology







A typical scenario: create a new cloud service to deploy SAP

Step 2 – Compose automations required at deployment time







A typical scenario: create a new cloud service to deploy SAP

### Step 3 – Publish service in the catalogue

IBM SmartCloud Orchestrator		Administrator   ⑦ Help   About   Logout
Welcome Service Catalog Service Requests Instances		
Service Catalog >>		All Categories   Search for a Service  Q
My Favorites The service offerings which you marked with the label favorites.	Network Services These service offerings allow you to manage network services.	My Service Requests       Image: Since Yesterday   Last Week         Image: My Service Request Since Yesterday
Storage and Backup Services           These service offerings allow you to manage storage and backup services.	Customer Onboarding Services These service offerings allow you to manage customer onboarging services.	
Development and Test Services           These service offerings allow you to define new development and test services.	New Servers These service offerings allow you to add additional server such as Windows 7 Server, or Linux RH Server.	
Database Servers These service offerings allow you to add additional database in an existing environment.	Software Installation These service offerings allow you to install software on a server.	



### An open orchestration platform for cloud automation





# Thanks

