

Service Management e Data Center Transformation

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IBM Software

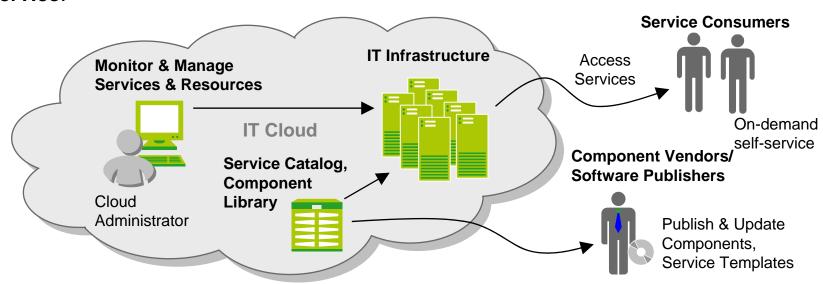


Integrated Service Management: IT e Business al centro dell'impresa 6 maggio, Roma



Cloud Computing

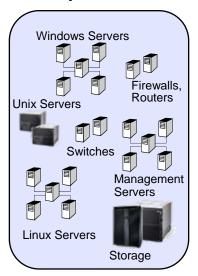
- Cloud Computing is an emerging style of computing in which applications, data, collaboration, business processes and IT resources are provided as services to users over the network
- Cloud represents the Industrialization for delivery of IT supported services made available by highly efficient virtualized compute resources that can be rapidly scaled up and down in a flexible yet secure way to deliver a high quality of service.



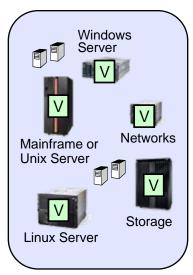


IT Infrastructure Evolution to Cloud Computing

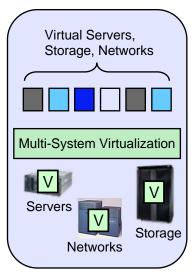
Scale-Out Sprawl



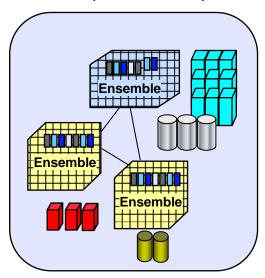
Physical Consolidation



Abstraction and **Pooling**



Service Orientation, Cloud Services, Ensembles, ...



IT Simplification

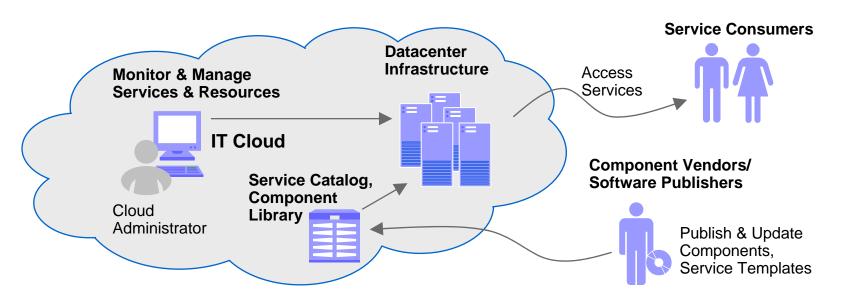
VIRTUALIZATION STANDARDIZATION AUTOMATION



What are clients looking for in a Cloud offering?

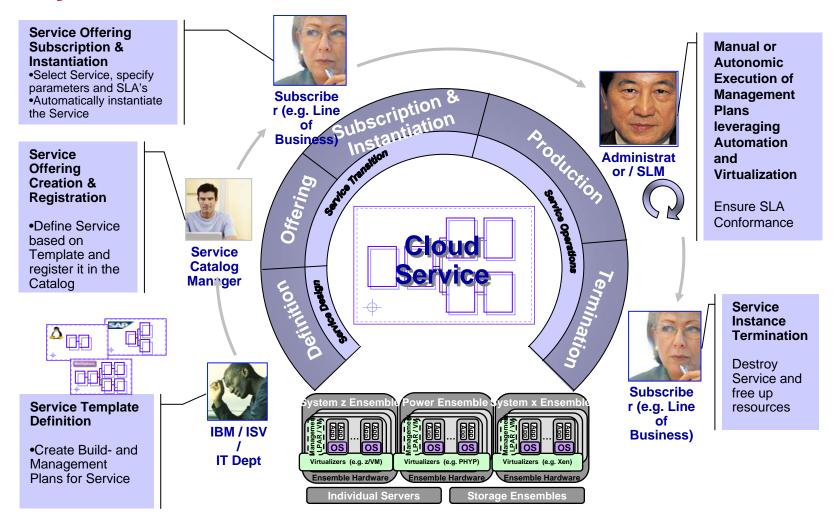
Cloud computing is a new consumption and delivery model:

- On-demand self-service
- Ubiquitous network access
- Location independent resource pooling
- Rapid elasticity
- Flexible cost/pricing models



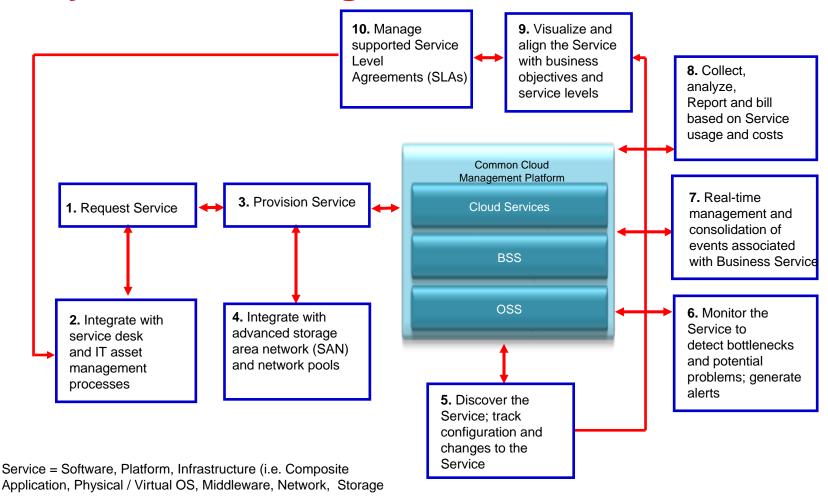


Lifecycle of a Cloud Service





Why Service Management: Cloud Use Case



Not in all cases will all steps exist in a client engagement



Roadblocks to Innovation and Success

Business Objectives

Growth & Competitive Edge

Risk & Compliance

CapEx & OpEx Control

Obscured view. Inadequate governance.

Operational disconnect.

Lost opportunities. Unnecessary risk. Low efficiency & return.

Business processes

Information

People

Information Technology

Business Assets

Business & Technology Assets

IT Processes



Enabling Business and Technology Integration

Business Objectives

Growth & Competitive Edge

Risk & Compliance

CapEx & OpEx Control

IBM Service Management

Provides the integrated visibility, control & automation across business and technology assets needed to achieve business objectives.

Visibility

Control

Automation

Business processes

Information

People

Information Technology

Business Assets

IT Processes

Business & Technology Assets





Visibility: See your Business

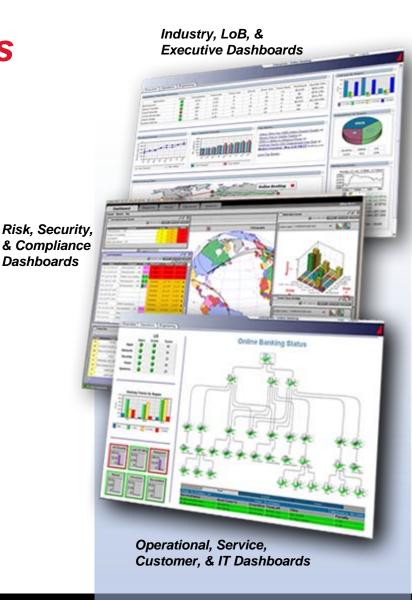
Challenge:

 Business and operational audiences lack the visibility needed to directly support and deliver against business objectives

Solution: Targeted real-time dashboards

 Business, Compliance, and Operational dashboards leverage existing assets and provide the real-time visibility needed to manage against business objectives

Any data. Anywhere. For any audience. In real-time.

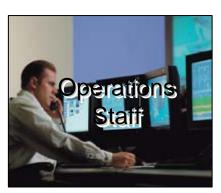




Service visibility is vital

...vital to both business and operations:

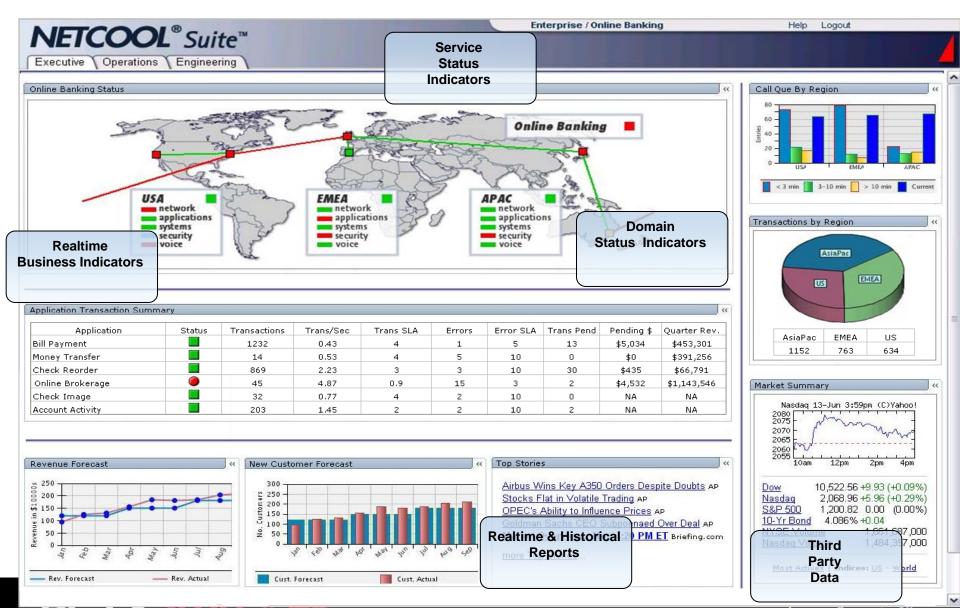




- ✓ Insight into the operational health of services
- ☑ Track ongoing customer experience
- ☑ Make strategic business decisions & investments
- Assure high service availability and performance
- ☑ Reduce costs & improve operational efficiency
- ☑ Deliver against line of business requirements
- ☑ Make long-term IT investment decisions

Challenge: Business & Operational audiences lack the integrated service visibility and intelligence needed to align and deliver against their objectives.







Control: Manage and Secure your Investments

Challenge:

- Poor control <u>increases</u> CapEx, OpEx,
 & Risk impacting growth and innovation
 - Finance Week: Only 40% of assets are well described and can be easily found
 - Over 85% of service problems result from changes to the infrastructure

Solution: Integrated Asset Control

 Helps recover assets and implement effective access control and change management processes across business and technology investments—maximizing ROI, minimizing service problems and improving security.

Integrated Business & Technical Asset Control.

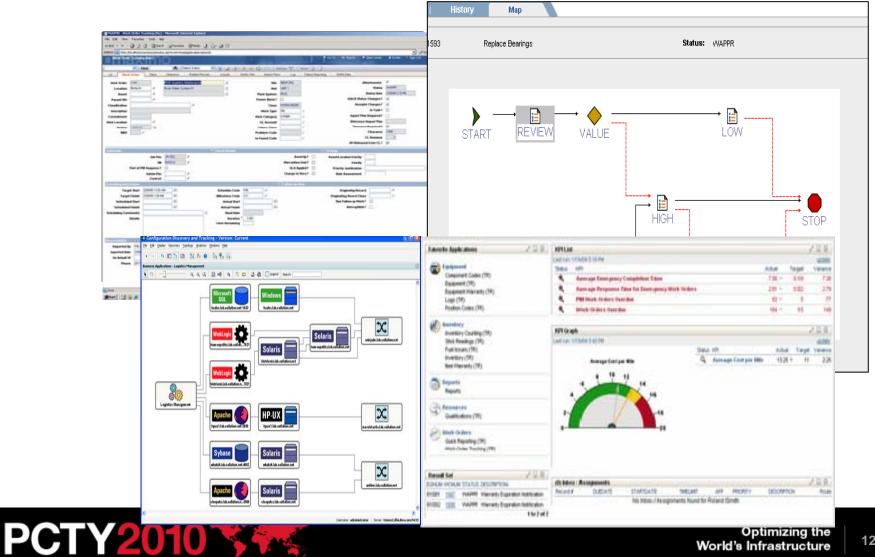


"[EAM provides] 30% reduction in costs the first year.. and continued savings of 5-10% for the next 5 years"

Gartner



Control over Change Management





Automation: Build Agility into Operations

Challenge:

 The operational processes that directly support delivery of revenue generating business services and processes are not automated or integrated.

Solution: 'Operational' Automation

 Automates and integrates the operational processes and tools that directly support the delivery of critical business services and processes – to help maximize productivity and reduce new labor expense, while improving service assurance.

Automating operations for greater business agility.



Operational Spend

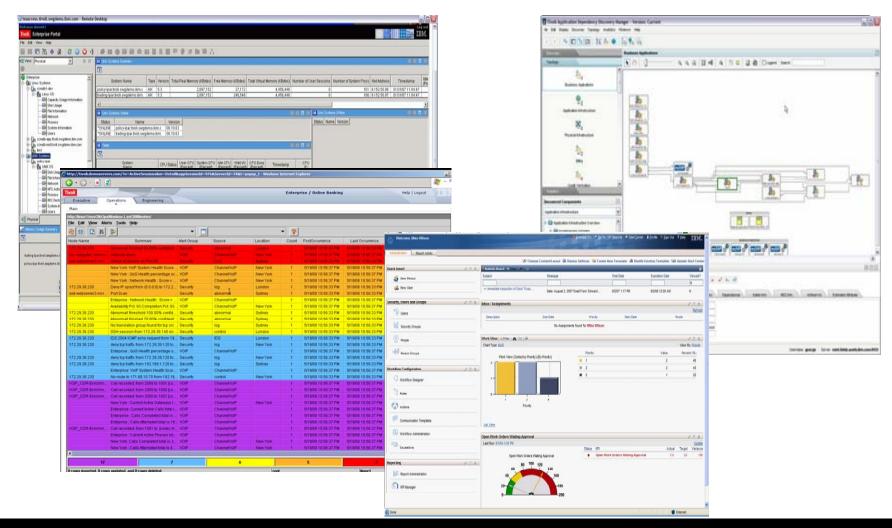
■ 70% of CIO budget is labor

By 2008

- 73% of CIO budgets will be labor spend
- Growth supporting app. dev. will decline at -10% CGR
- Total operations labor spend will reach \$325B



Automate Your Processes





The Operating System of the Data Center





Service Managed

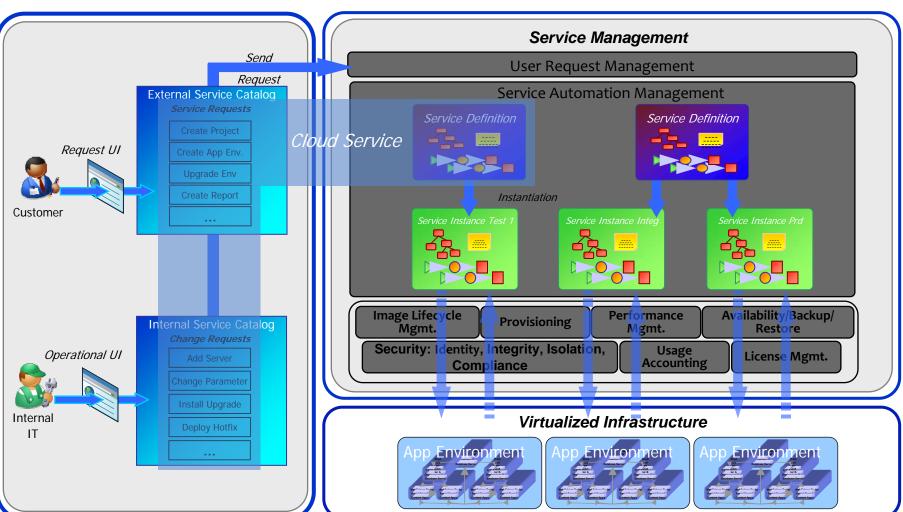


Reduces the Cost of IT and Accelerates the Deployment of New Processes, Services and

Service Oriented, Virtualized Infrastructure

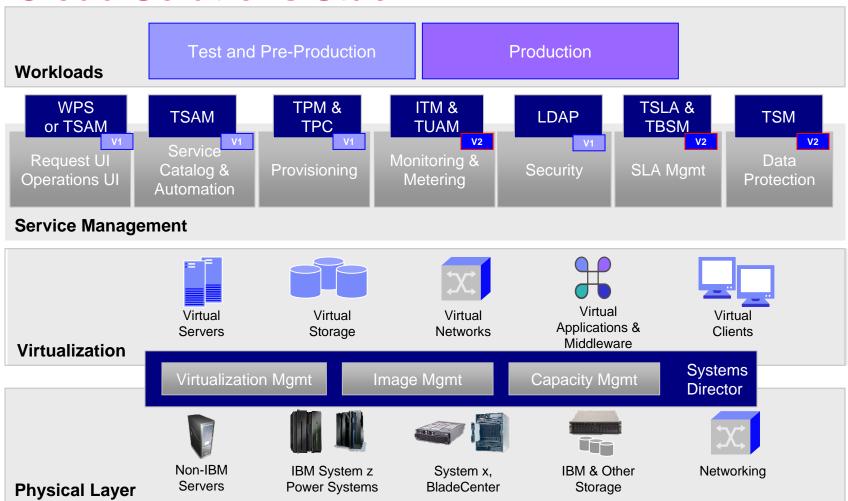


Cloud Service Management Architectul Copplication Service Request & Operations Provider





Cloud Solutions Stack





Integrated Approach to Service Management

Integrated Solution

An Integrated set of solutions represent the full management of data, processes, tooling and people

Common Data Model

The core solutions share a common data subsystem for simple data sharing

Processes that Work Together

The core solutions share a process workflow automation engine

No Rip and Replace

Leverage existing investments in IBM and 3rd party IT management tools

Lower Cost of Ownership

Lower infrastructure and training costs, simple upgrade model

Service Assurance Element and Application Discovery

IT and Non-IT Asset Management

Tivoli Process Automation Engine

Common Data Model

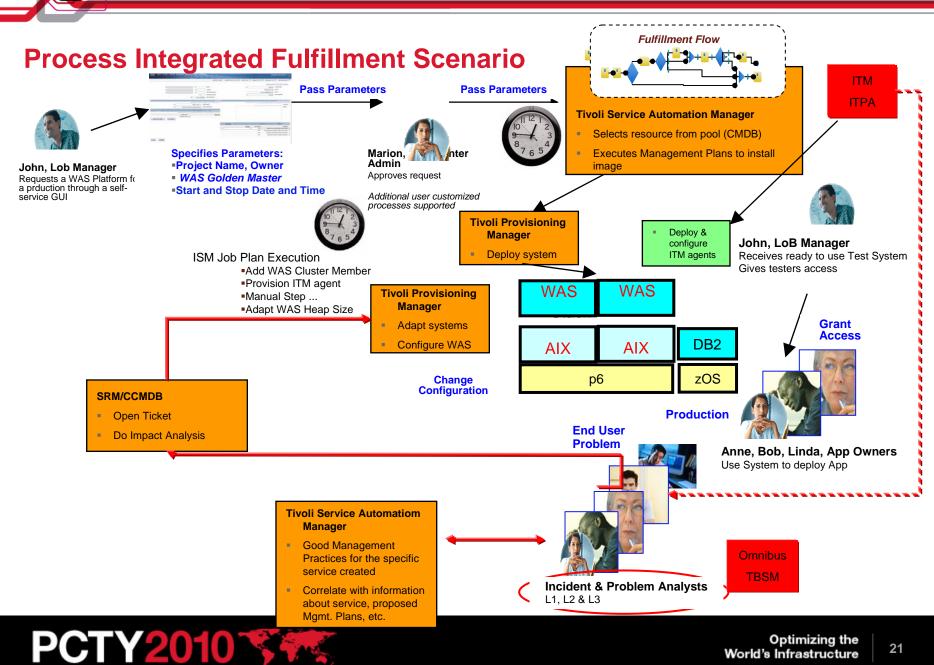
Change Management

Service Request Management

Provisioning

Service Automation / Cloud Runtime Engine (SW only)

Integrated Service Delivery Platforms (HW + SW)





IBM Tivoli Solutions for POWER7 Systems



Powered by



IBM Tivoli solutions and Power Systems™ enable clients to deploy integrated visibility, control & automation capabilities that help them implement and sustain an optimized and virtualized IT environment.

Deploy and Optimize

- ✓ Deploy new or existing workloads faster
- Optimize workloads
- ☑ Reduce energy & improve performance

Performance and Availability

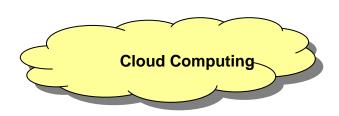
- ✓ Monitor application & server health
- ✓ Identify & resolve performance issues
- ☑ Detect & fix memory leaks

Protect Applications & Data

- ☑ Backup and restore faster
- ✓ Improve data recovery times
- ☑ Better utilization of resources



Tivoli Data Center Automation Capabilities





Simplifies user interaction with IT

- ✓ User friendly self-service interface accelerates time to value
- Service catalog enables standards to drive consistent service delivery

Delivers provisioning to enable automation

- Automated provisioning speeds service delivery
- ✓ Provisioning <u>policies</u> allow release and reuse of assets

Integrated in different offerings:

- √ Standardized services on the IBM Cloud
- ✓ Smart Business Cloud
- ✓ Smart Business System: IBM CloudBurst 1.2
- ✓ Integrated with <u>Tivoli Usage and Accounting</u>
 <u>Mgr</u>