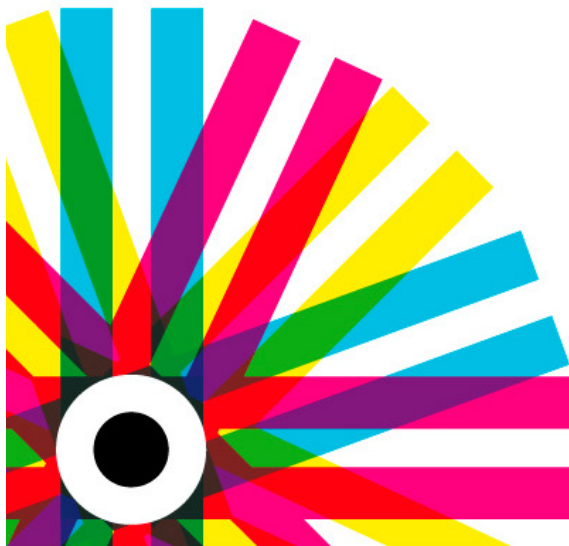


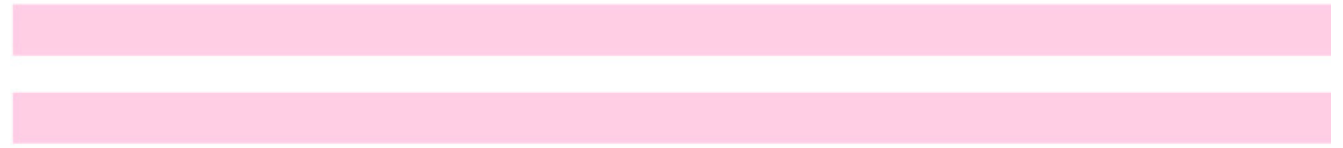


R.Nicolosi, A.Sgrò, A.Haag, S.Caggese
IBM Tivoli Solution Experts

Accelerare l'implementazione e la gestione di una
soluzione BSM di ambienti virtualizzati



IBM Tivoli User Group 2012



Business Services: Visibilita', Controllo & Automazione

SEE
your Business



Visibility

MANAGE
your Business



Control

IMPROVE
your Business

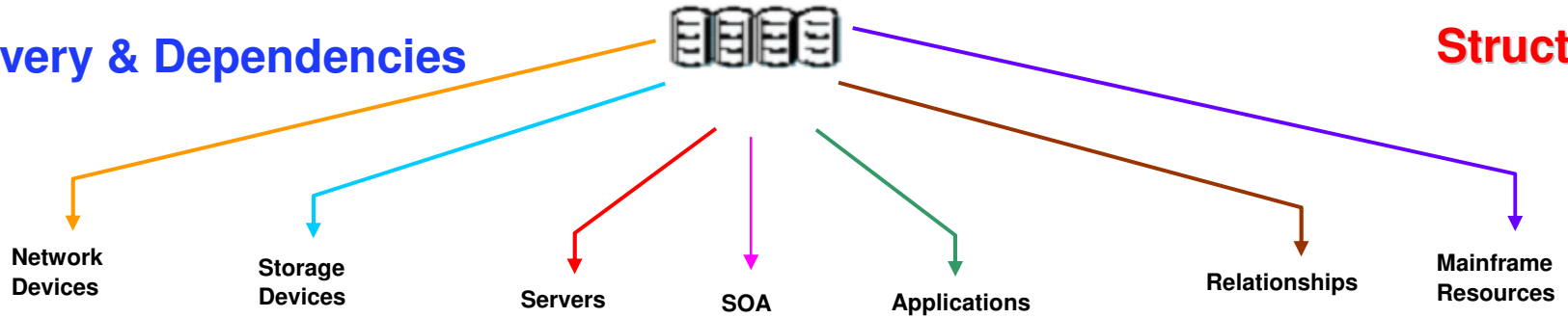


Automation

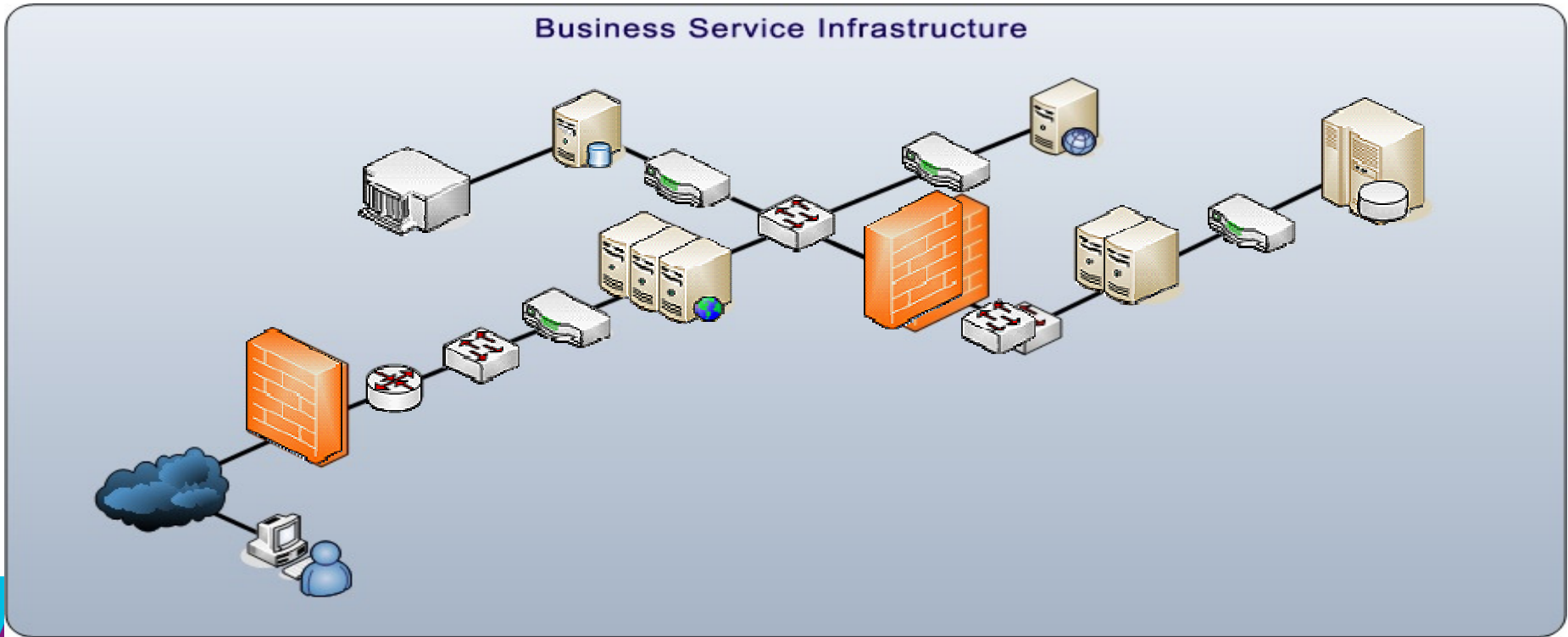


Discovery & Dependencies

Structure

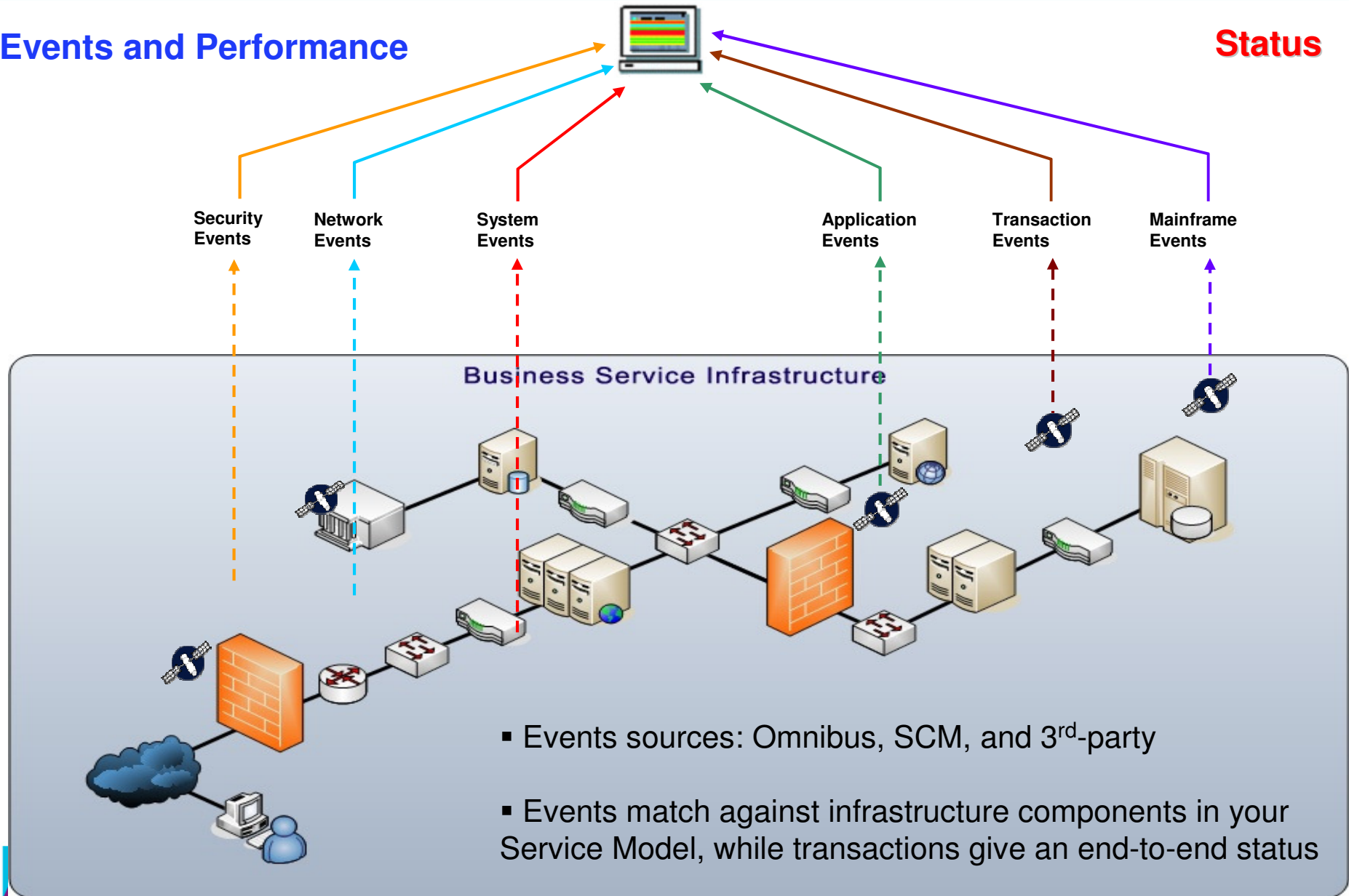


Business Service Infrastructure



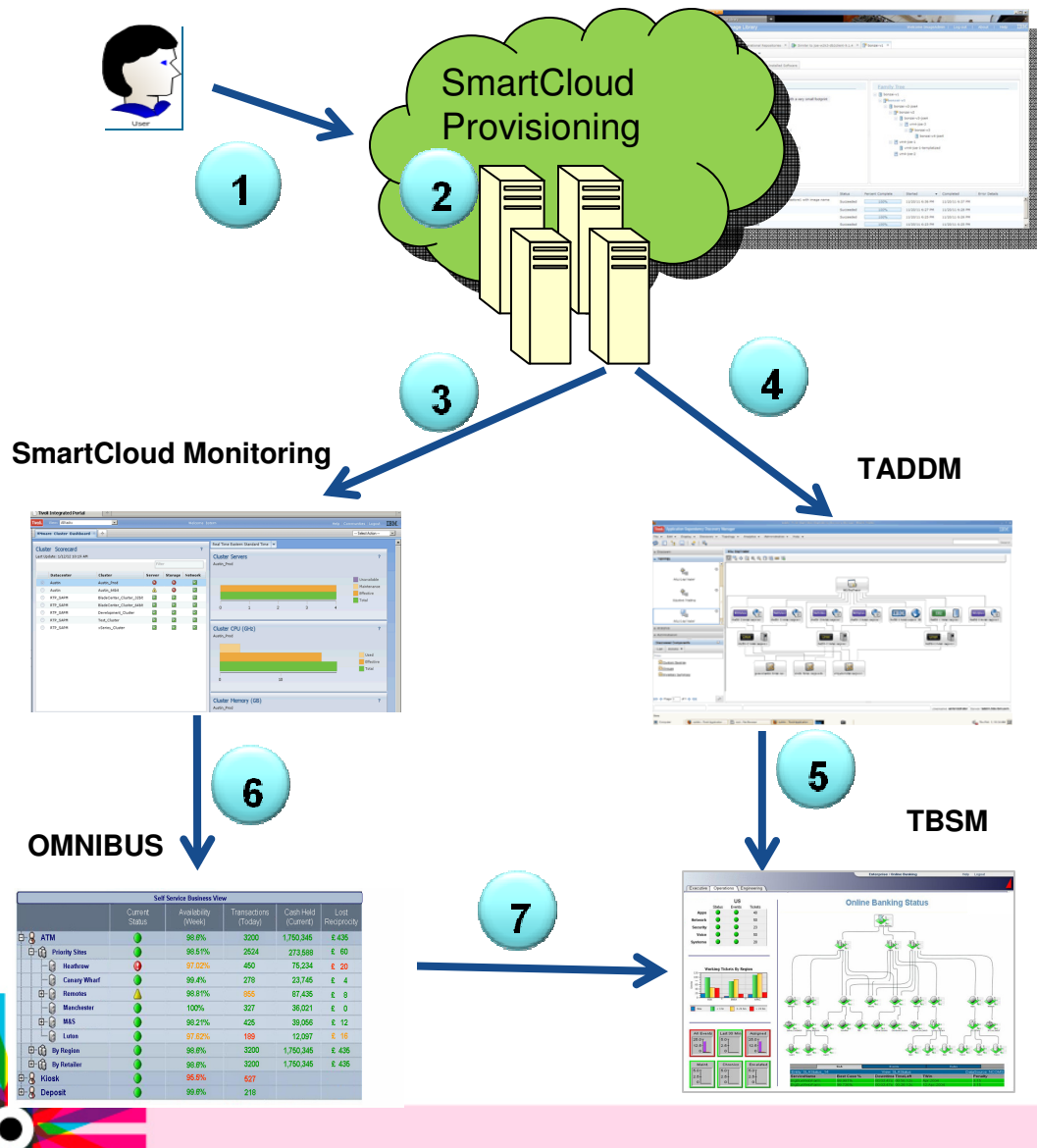
Events and Performance

Status



TUG Demo Scenario

Accelerating Business Service Deployment and Management



- 1. Service Request by User:**
// Deploy of 4 App Templates (VMs)
- 2. Service Deploy**
// via SmartCloud Provisioning
// Monitoring Agents on-board
- 3. Service Monitoring**
// SmartCloud Monitoring starts monitoring immediately
- 4. Service Discovery**
// TADDM discovers the service elements and their relationships
- 5. Service Definition & Mapping**
// Structure defined in TADDM maps to TBSM for Service Dashboarding.
- 6. Service Events**
// SCM sends events to Omnibus (MEM, CPU, ALIVE events)
- 7. 'Business' Service Status**
// Driven by events and propagated along the service tree structure.

IBM SmartCloud Provisioning (SCP) - High Scale Low Touch

High Scale Low Touch

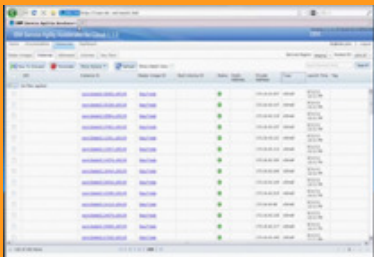
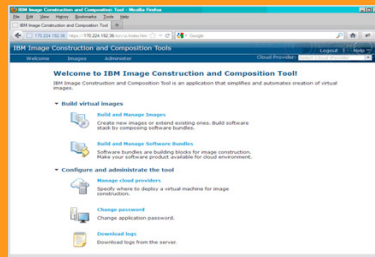
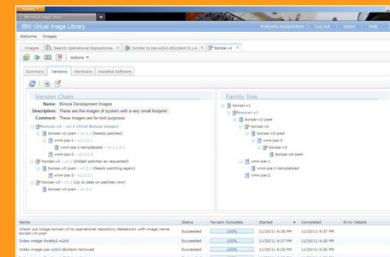


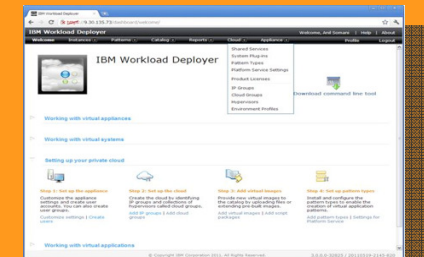
Image Construction and Composition



Virtual Image Library



Workload Deployer

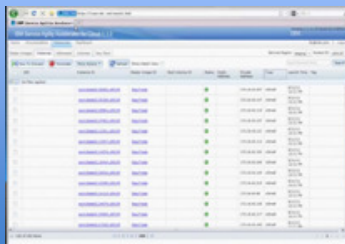


- **Distributed architecture** for solution resilience
- **Rapid scalable deployment** designed to deliver near-instant deployment of 100s of virtual machines in seconds instead of minutes or hours
- **Continuous operations** during upgrades and maintenance resulting in no outages or downtime
- **Reliable, non-stop cloud** capable of automatically tolerating and recovering from software and hardware failures
- **Save IT labor resources at scale** by enabling self-service request and highly automated operations
- **Hypervisor & hardware agnostic** enabling choice and avoiding vendor lock-in
- **Open source based**, commodity skills, small footprint

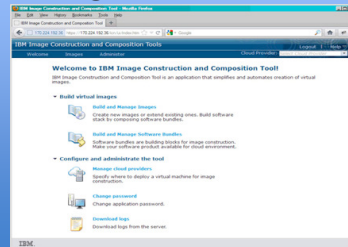


SmartCloud Provisioning (and its components)

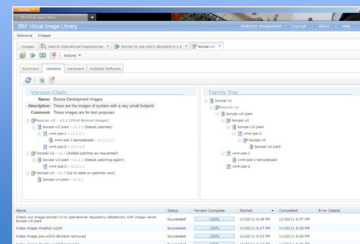
HSLT High Scale Low Touch



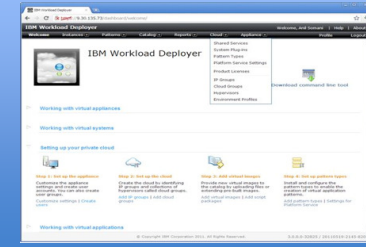
ICON Image Construction



VIL Virtual Image Library



IWD Workload Deployer



Key Capabilities

- Massive scalability
- Rapid VM provisioning
- IaaS & PaaS deployment
- Non-stop cloud operations
- Distributed architecture
- Automated recovery
- Intelligent load balancing deployment
- Hypervisor agnostic
- Open source

Key Capabilities

- Complex Image composition
- Version control
- Image repository
- Run-time activation engine (with SCP)
- Integration for SCE
- Hypervisor agnostic

Key Capabilities

- Image discovery
- Library cataloging
- Image comparison
- Image publishing

Key Capabilities

- Complex PaaS services
- Pattern deployment
- GUI pattern creation
- Advanced hypervisor integration

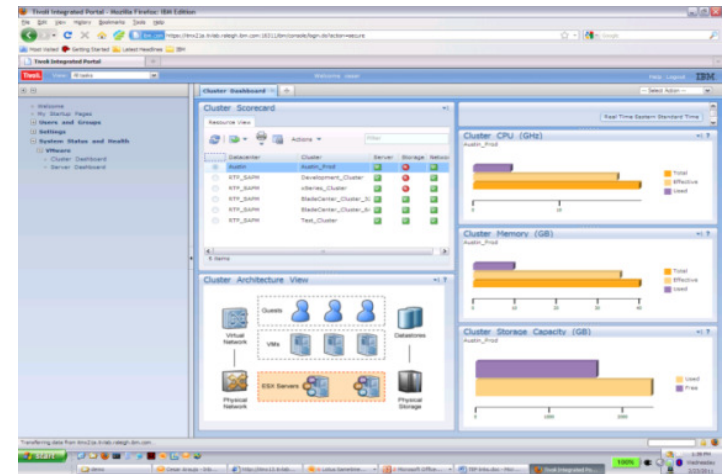


IBM SmartCloud Monitoring (SCM)

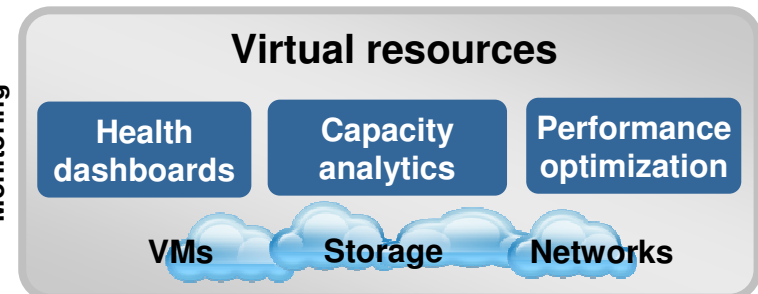
is an infrastructure-as-a-service cloud monitoring tool, providing scale, performance and availability monitoring of the cloud resources and the virtual machines running within it.

Key benefits:

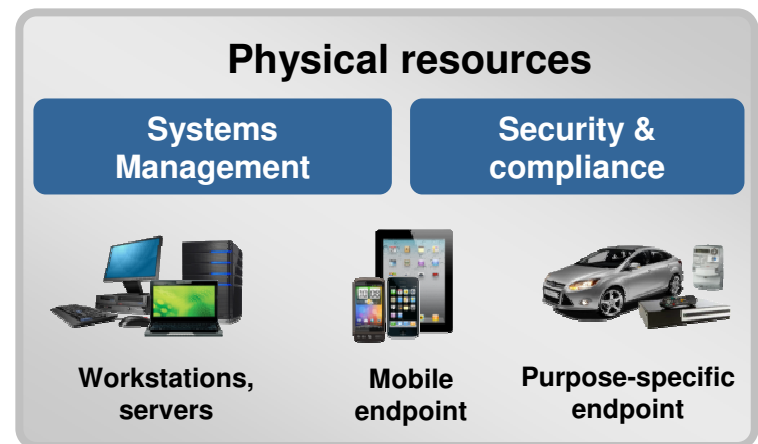
- **Visibility into the cloud infrastructure**
 - Integrated “out-of-the-box” contextual views of health and performance in the complete context of the virtual environment to include physical and virtual servers, storage and network resources
 - Receive real-time proactive & predictive alerts
 - Side-by-side and historical data to identify problems quickly
- **Virtual environment management**
 - Out-of-the-box alerts, best practices, expert advice and workflows for detecting performance problems and identifying their source
 - Web 2.0 dashboards, operational workspaces and reports
- **Guest OS monitoring**
 - Full spectrum monitoring of the VMs themselves allows correlation with infrastructure monitoring
- **Capacity planning**
 - Predict physical and virtual resource capacity bottlenecks and trends
 - Gain business agility by determining room for expansion
- **Optimization**
 - Right-size virtual machines
 - Policy-driven workload placement for performance and security optimization



IBM SmartCloud Monitoring



IBM Endpoint Manager



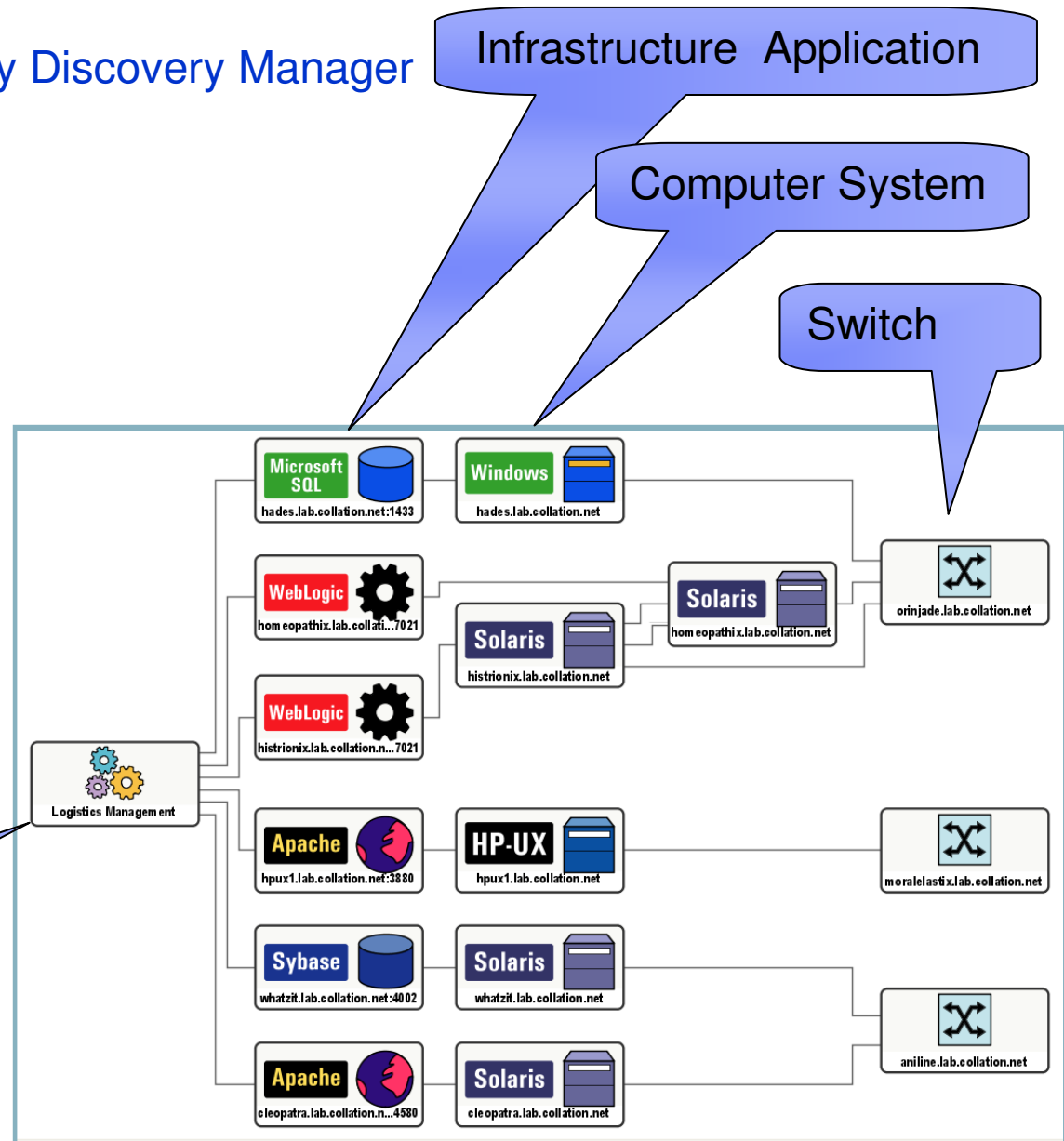
IBM Tivoli Application Dependency Discovery Manager (TADDM)

➤ Understand what they have

- Application Discovery and Mapping with Dependencies

- Agent-less
- Discover Interdependencies between Applications, Middleware, Servers and Network components

Business Application

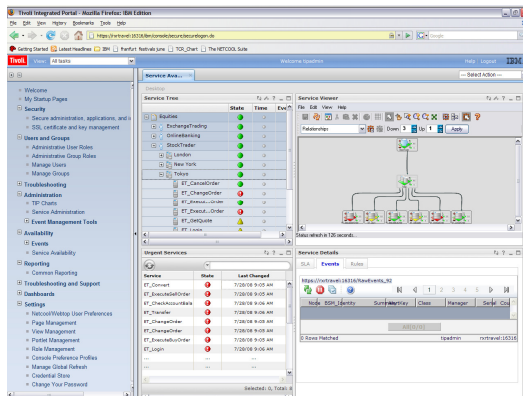


IBM Tivoli Business Service Manager (TBSM)

Understand, monitor and explore the state of business operations

Business Impact

Determine impact of outages and provide notification of situations that require response. Calculate and propagate status from event and metric data sources.



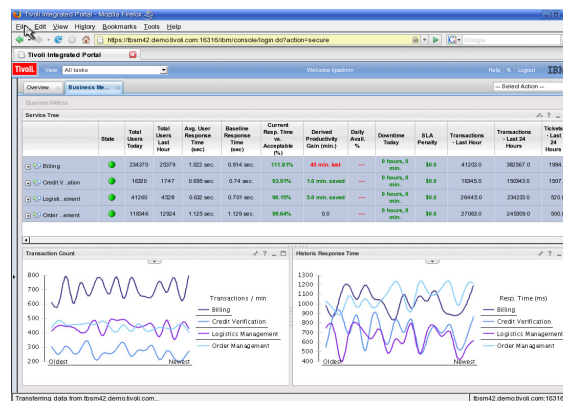
Business Dashboards

Present information affecting business service performance



Data Integration and Collaboration

Share IT and business metrics and models with teams to resolve situations. Utilize discovery data to build and maintain service models.

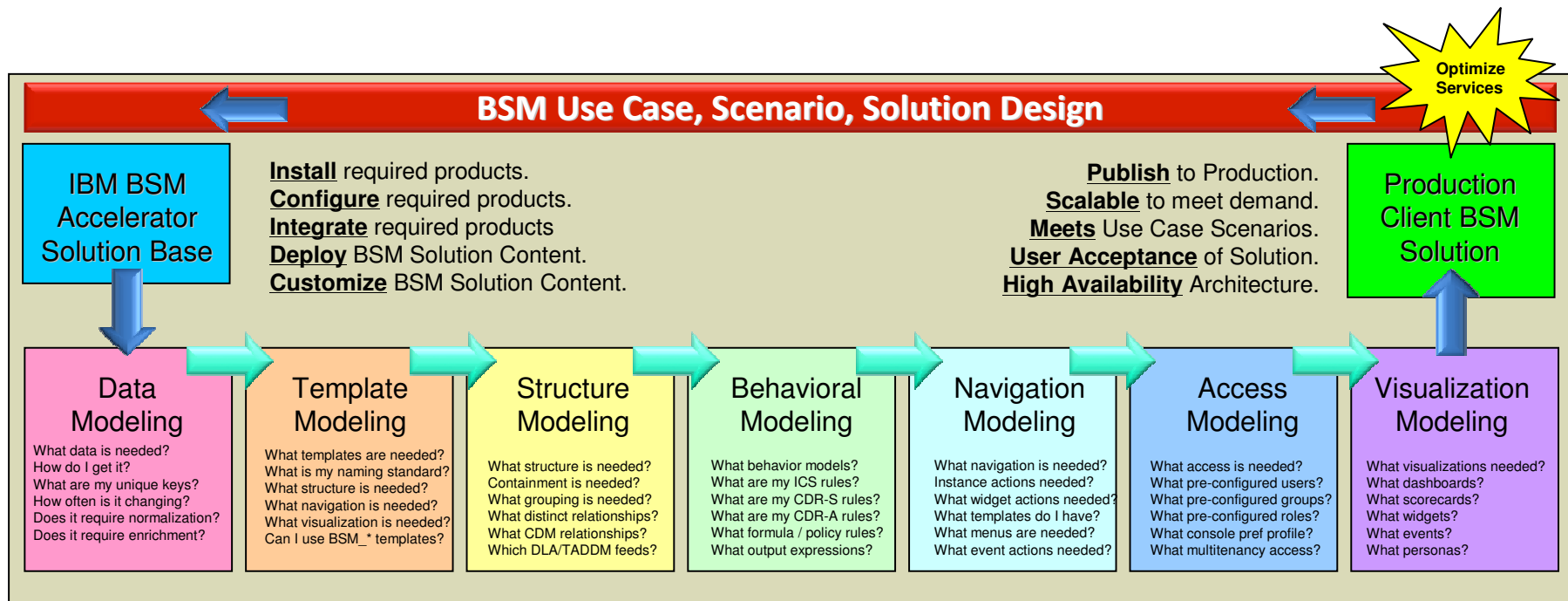


Reports and Analysis

Understand trends through reports and analysis of historical service status and metrics

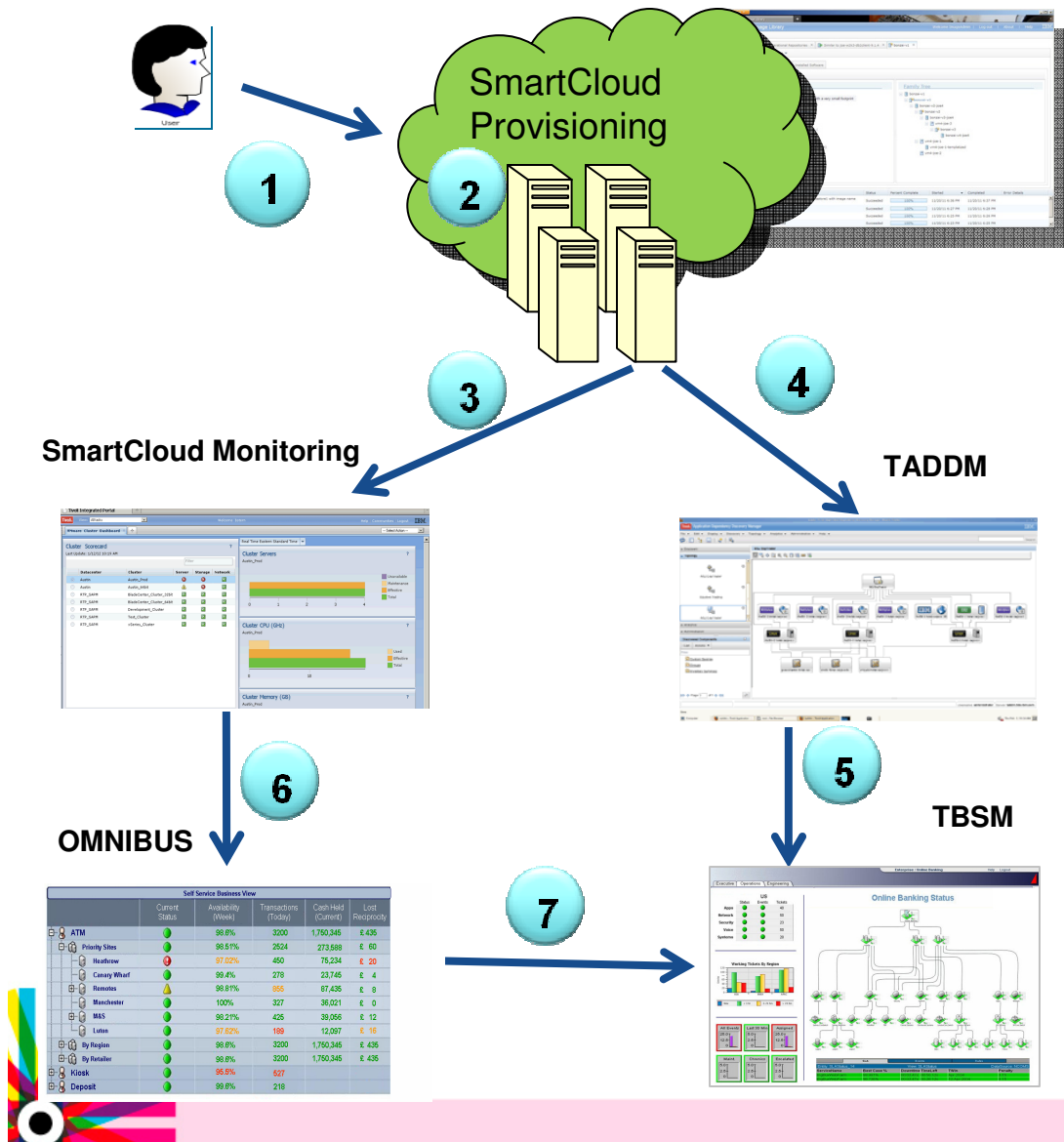


BSM Solution Methodology



DEMO Live

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Thanks for your attention



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Special Thanks



...DOMANDE ?

