From Data Centre to Managed Public Cloud

Consulting approach:

Breakdown of Business services into several IT services to be deployed in Cloud

Assignment of IT services to the right position in the Public Cloud
Cloud implementation projects

| Roadmap | • Definition of roadmap for introduction of Cloud Computing in the specific business environment |
| Software Selection and implementation | • Support for facilitators and management software selection (e.g. virtualization, cloud management, data centre automation, ITSM) • Implementation of selected solution |
| Deployment models | • Identification and implementation of the deployment models best suited to business realities (e.g. private Cloud with internal DC, private Cloud with external DC, public Cloud, hybrid solutions etc.) |
| Candidate applications | • Support for identifying best candidates for migration or deployment in Cloud |
| Integration with IT processes and technologies | • Definition and implementation of integration models for existing business processes (e.g. Incident and Change management) and management technologies (e.g. CMDB, monitoring, asset mgmt, ticketing) |
| Cloud templates | • Initial implementation of technology stack templates used in deployment of applications in the Cloud, including IT management tools |
| Migration and Consolidation | • Migration and consolidation of existing applications or support for deployment |
Infrastructure evolution support projects

Projects for evolution of infrastructure architecture:

- Virtualization
- Business Continuity
- NGDC
- Private Cloud

Deployment of services to Public Cloud

- Management of business services in Public Cloud
- Combined private / public governance
Transforming data centres into Private Clouds

- Manual configuration
- Physical resource provisioning
- Sub-optimal resource usage
- Application-oriented resource allocation

- Integrated configuration
- Virtual resource provisioning
- Dynamic resource usage
- Performance-oriented resource allocation

Current approach

Private Cloud Approach
Components of transformation: evolutive + innovative

Evolution

Virtualization and Data Centre Automation

Innovation

(Self) Provisioning of cloud resources, Orchestration

NIST

- Broad Network Access
- On-Demand Self-Service
- Rapid Elasticity
- Resource Pooling
- Measured as a Service
Private Cloud: an operating model…

- Define Service
- Service Catalogue
- Self-Service Portal
- Service Request Management
- Automated Provisioning
- CMS + CMDB
- Service Retirement

+ • Middleware stack
  • Application stack
  • Monitoring
  • Compliance
  • Additional Services

Infrastructure
Application Owner
Physical Servers
Virtual Servers
Network
Storage

projects
Enterprise Private Cloud products: BMC

BMC Portal
- Service Request
- Cloud Status
- Service Level

BMC Cloud LifeCycle Management
- Service Request management
- Change Management
- Discovery Provisioning Configuration
- Compliance

Virtualization & Resource Pooling

Core Infrastructure

Service Level Management
Operation Administration
Public Provider

Enterprise Private Cloud products: BMC

BMC Cloud LifeCycle Management

Virtualization & Resource Pooling

Core Infrastructure

Service Level Management
Operation Administration
Public Provider
Enterprise Private Cloud products: CA

CA Automation Suite

CA Server Automation
Ensuring a uniform distribution process for applications and services via physical and virtual systems

Virtual CA Automation
Capitalizing fully on the potential of cloud computing; self-service, resource pool, self-service, dynamic provisioning of physical and virtual resources

CA Configuration Automation
Identifying, monitoring and standardizing service IT infrastructure; management of policy-driven configuration

CA Process Automation
Automation, integration and orchestration of processes via IT groups, applications and platforms
Enterprise Private Cloud products: the Reply platform

WEB CONSOLE
REPLY CLOUD PLATFORM
Users APIs
Admin APIs
System APIs

RPC/SOAP (http,tcp)

Reply Virtual API (ws)
Vendor API
Hypervisor 1
Vendor API
Hypervisor n

Reply Storage API (ws)
Vendor API
SSystem 1
Vendor API
SSystem n

Reply Network API (ws)
Vendor API
Switch
Vendor API
Firewall

Reply Monitor API (ws)
Vendor API
Tool 1
Vendor API
Tool n

Reply Metering API (ws)

PHYSICAL HARDWARE/SOFTWARE
Deployment models

- Traditional data centre
- Virtual Data Centre
- In-house Private Cloud
- Dedicated External Private Cloud
- Multi-tenant External Private Cloud
- Managed Public Cloud

Flexibility

Costs

Scalability
Cloud Operations services

- Capacity planning
- Monitoring and operational management of the cloud platform
- Upgrade maintenance of data centre automation tools for Cloud
- Service and resource usage reporting
- Server template upgrade maintenance
Thanks

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