



Homeland
Security

Data Center Consolidation

DHS Lessons Learned

FDCCI Workshop
June 11, 2010

Agenda

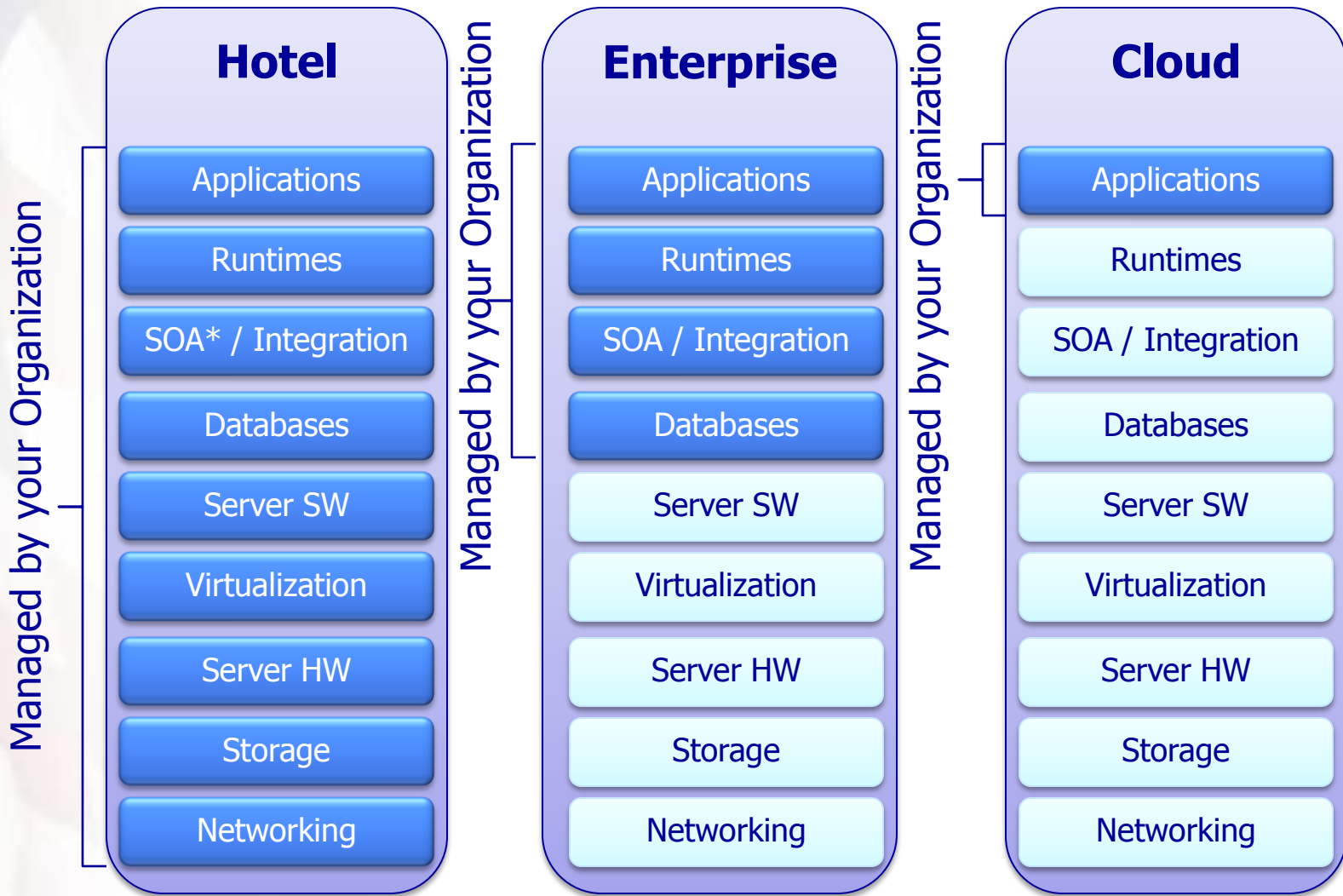
- Data Center Consolidation and your Organization
 - Hotel, Enterprise, Cloud
- Lessons Learned
 - IT Security
 - Disaster Recovery and WAN Bandwidth
 - Migration Planning and Implementation
 - Contract Vehicle and Terms
 - Financial
- Questions

Begin With the End In Mind

What does data center consolidation realistically mean for your organization?

- Hotel?
- Enterprise?
- Cloud?

Hotel vs. Enterprise vs. Cloud



*Service Oriented Architecture



Lessons Learned: IT Security

- Establish and ensure firm compliance with uniform Information Technology (IT) Security designs, policies and practices
 - WAN and LAN sharing
 - Certification & Accreditation Documentation
 - Data Storage
 - Physical and Logical separation
- Solve Security Issues
 - Components/agencies need to share infrastructure; virtualize and move toward private cloud model
 - Need mutually acceptable approach to Information Security (INFOSEC)
- Standardize Clearance Process

Lessons Learned: DR & WAN

- Disaster Recovery and Business Continuity
 - Ensure that contract terms allow for and provide cross-data center Disaster Recovery (DR)
 - Consider that DR is located outside your data center
 - Consider the bandwidth needed to support traffic
 - WAN Bandwidth/Capacity
 - Determine the source and method of funding for circuits
 - Identify who will control circuit usage and how will be managed
 - Consider the impact to IT Security
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Lessons Learned: Migration Planning & Implementation

- Inventory First
 - Visit locations to conduct data collection and report findings
 - Obtain rack numbers and specific application system information during initial data collection
 - Data calls tend to produce inconsistent and contradictory information
 - Data Center Control
 - Control of migrating data centers should reside with those responsible for migration
 - Migration “losers” – those that lose infrastructure and revenue – will delay migration efforts
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Lessons Learned: Migration Planning & Implementation

- Streamline the engagement process
 - One-entry and one-face
- Identify application criticality levels using well accepted methods and processes
- Most migrations take place on a system by system basis



Lessons Learned: Contract Vehicle & Terms

- Utilize the most flexible contract vehicle available in a data center environment
- Basic data center actions, such as server installation, must be priced and easy to buy and use
- All contracting actions process through a centralized knowledgeable core team

Lessons Learned: Financial

- Establish the source and method of funding for data center carrying costs prior to construction or purchase
 - “Build it and they will come” is an ineffective strategy
- Determine real baseline costs for existing data centers
 - Develop a full cost model of current data center operations
 - Costs are needed to benchmark new services and to allow reallocation of savings
 - Agency Chief Financial Officer should lead and enforce data collection efforts

Lessons Learned: Financial

- Establish clear fees and procedures for service authorities
- Distribution of migration funding to Components should be controlled by Department
- Maintain firm control of ongoing agency IT spending for other Data Center Services such as:
 - Equipment Power
 - Hosting
 - Construction

QUESTIONS?

