Leveraging Enterprise-Level Server Capabilities

Implement and Managing Database Hotels

Presented to:
HP OpenWorld – September 2002

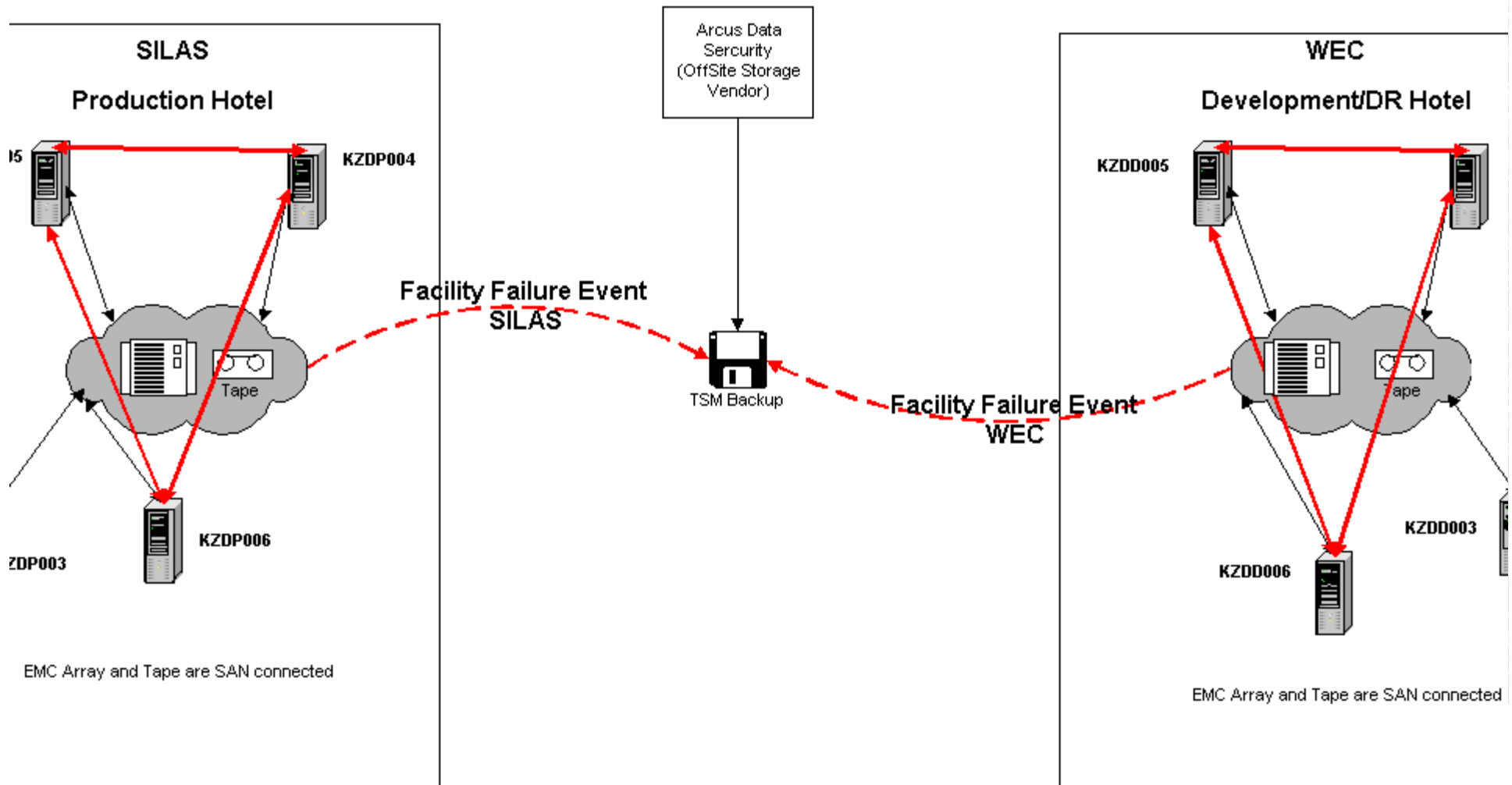Tommy Simmons – Wachovia
Bob Touart - Oracle

Agenda

➢ Why Hotel?

➢ Wachovia Hotel Architecture

➢ Predefining Policies and Procedures

➢ Implementation Standards

➢ Core Implementation Steps

➢ Maintaining the Environment

➢ Monitoring for Performance and Compliance

➢ Q&A

Why Hotel?

- Decrease Time to Market
- Reduce Support Costs
  - Hardware
  - Software
  - Human Resources
- Standardization of Systems
- Expansion of System Unlimited
- Provides for High Availability and Disaster Recovery

SILAS

Production Hotel

Arcus Data
Sercurity
(OffSite Storage
Vendor)

WEC

Development/DR Hotel

5   KZDP004

KZDD005

Facility Failure Event
SILAS

TSM Backup

Facility Failure Event
WEC

Tape

Tape

KZDP006

KZDD003

ZDP003

KZDD006

EMC Array and Tape are SAN connected

EMC Array and Tape are SAN connected

om:

GB

0MB

Red Line denote hardware or package failover

Black lines to servers from EMC denote fibre connection

All Servers except: Hewlett-Packard N4000-750 6 (750mHz) processors with
HP-UX 11i (64-bit) and 16.0gb RAM

kzdp003/kzdd003: Hewlett-Packard N4000 (750mHz) processors with HP-UX
11.0 (64-bit) and 16.0gb RAM. These will not be HA and will be used for

Policies and Procedures

➢ Elements to Define

  ➢ Standard Installation Components

  ➢ Upgrade/Migration Policy

  ➢ Desupported Software Policy

  ➢ Standards for Backup/Recovery and DR

  ➢ Resource Allocation

  ➢ Penalty for Non-Compliance

Implementation Standards

➢ FileSystem Naming Standards allows for fully scripted implementation

  ➢ FileSystems Maps to Package Name

  ➢ Standard Minimum Devices

  ➢ Controller names standardized

➢ Develop an Oracle Init File Template

➢ Develop database component standards

Core Implementation Steps (Automated Creation)

- ➤ Select available physical devices and create volume group
- ➤ Obtain Network Info -- IP/Subnet
- ➤ Configure cluster/package configuration files
- ➤ Implement watchdog process on all nodes
- ➤ Auto-transfer configuration files to failover node
- ➤ Apply package configuration and start package
- ➤ Create Oracle Listener
- ➤ Create Oracle Database
- ➤ Install canned apps, statspack, auditing maintenance, etc.
- ➤ Verify sqlnet connectivity
- ➤ Perform initial database backup
- ➤ Verify failover
- ➤ Notify DBA of Package Creation

Maintaining the Environment

➢ Extending Capacity of Existing Packages

➢ Adding a Room to an Existing Package

➢ Validate Usage of Standardized Backup/Recovery Methods

➢ Periodically test/validate Failover

Monitor Performance and Compliance

➢ Update PARM File

➢ Use WLM at the OS-Level

➢ Use Oracle Statspack at the DB-Level

➢ Ensure MeasureWare is Running

Questions and Answers