



teleran®

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Planning for Oracle Exadata Migrations & Conversions

Agenda

Planning for Oracle Exadata Migrations and Conversions: *Don't Just Forklift to Exadata*

- **Customer Case Studies**
- **Q & A**
- **About Teleran**

General Preparation for Exadata

- **Source Systems. Individual workload profiles**
- **Target Systems. Composite workload behavior**
- **Readiness. Workload's readiness for Exadata**



Hypothesis:

Application Readiness Matters

- Old, poorly written applications do not 'fork lift' well
- Inappropriate user behavior can impact performance
- Right sizing applications, users, and data model will improve performance

Application Readiness Requires Visibility

- **Who are the users of the application /system?**
- **How are they using the application?**
- **When are they using it?**
- **What tools are they using?**
- **What data objects are they using?**
- **How do they all interact and share the Exadata?**

Customer Challenge: Slow Consolidations / Migrations

- Moving 50 databases, marts, ODSs & OLTPs onto Exadata
- Oracle, DB2, & SQL Server (several versions)
- 24 x 7 global operations
- Some applications in poor health

Assess application readiness to find database hints & assess Smart Scan readiness

Customer Challenge: Exadata Slowdown / Fall Down

- Exadata performance slowing over course of the day
- Exadata occasionally crashed
- Identified poorly-coded application
- Database connections left open, resources exhausted

Discover poorly written bad queries impacting Exadata performance

Customer Challenge: Un-Authorized Datamarts

- Identified 7 datamarts (avg. 450 GB, max. 7 TB)
- Resources wasted with tools like MS Access, Toad
- Bogged-down throughput, missed SLAs
- Compliance & security violations

Discovery of unwanted activities in source systems targeted for Exadata can be critical to deployment.

Customer Challenge: Un-Healthy Source Systems

- DB2 EDW, Oracle ODS supporting 1000's Web users
- Too many DB errors, real-time ETL deadlocks
- DB tuning highly over budget & behind schedule
- New CEO & VP IT

Database “Fork lifting” does not always work...

Customer Challenge: Measuring Exadata Benefits

- Highly-tuned DB2 & Oracle warehouses
- BI: Home-grown, SAP BusinessObjects, OBIEE
- Need to validate Exadata improvements
- Identify & benchmark key queries, indices

Evaluate application readiness to find optimal index plan based upon actual workloads

Key Exadata Readiness Considerations

- **Database Hints**
- **Database Errors**
- **Inappropriate Queries**
- **Smart Scan Ready**
- **Index Lite Ready**

Approach for Assessing Readiness

- **Database Monitor.** Track SQL and metrics of profile
- **Data Reduction.** Process to cluster similar events
- **Readiness Analysis Engine.** Produce actionable results



Conclusion/Q&A

- **There is no replacement for careful planning**
- **Exadata is fast, but cannot ‘heal the sick’**
- **‘Fork lift’ migrations are not, ‘one size fits all’**
- **Bad behavior can dramatically affect performance**

About Teleran

Visibility, usage analytics & policy management to understand & actively manage data-intensive applications

- **Software & services company**
- **4th generation software solutions – 8 patents**
- **Oracle partner 10 years**
- **Solutions Exastack Certified, installed at Oracle Solutions Centers**



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