Oracle Exadata 11g Essentials
Exam Study Guide

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Objective & Audience

Objective
Help you prepare to take the Oracle Exadata 11g Essentials (1Z0-536) exam by providing pointers to resources that you can use in your preparation.

Targeted Audience

- Technical Consultants
- Strong foundation and expertise in implementing the Oracle Exadata Database Machine
- Participated in Exadata implementations
- Candidates must also have knowledge of Oracle Database, Data Warehousing and Real Application Clusters.
- Up-to-date training and field experience are recommended
Exam Topics & Objectives

Exam Topics
The Oracle Exadata 11g Essentials exam consists of six topics:

1. Oracle Database 11g software
2. Oracle Exadata software
3. Oracle Database Machine hardware
4. Configuration
5. Administration
6. Best practices

Exam Objectives
The exam objectives are defined by learner or practitioner level of knowledge:

- **Learner-level**: questions require the candidate to recall information to determine the correct answer.

  Example: Define the term network.

- **Practitioner-level**: questions require the candidate to derive the correct answer from the application of their knowledge, which can only be attained by extensive experience with the product.

  Example: The client requests xyz functionality, would you recommend a, b or c?
Training Options

For each exam topic there have been identified alternative training options that are available at Oracle. The training options are divided into three categories:

- **Boot Camps**
  The Boot Camps are designed as a "jump start" training to enhance your skills by providing role-based training on industry-leading Oracle solutions and services. The boot camps are built as concise, intensive, and real-time training to give partners a competitive advantage as they prepare to build powerful solutions for their own customer base. Partners can choose to attend these boot camps in class or in a live virtual class format to maximize the effectiveness and the time allocated to training.

- **Instructor-Led Training (delivered by Oracle University)**
  Partners can take any publicly-scheduled Oracle University courses at steep discounts. Benefit from hands on experience to gain real working skill and work toward Oracle certifications.

- **Online Training**
  Oracle Partners are entitled free access to the Oracle Knowledge Center (OUKC), a vast library of recorded product courses. New courses are regularly added to the library, providing partners with the latest information and training to master new products or to increase proficiency on the new releases.
Topic 1: Oracle Database 11g software

Objectives
- Use common database features
- Leverage performance features
- Monitor with Enterprise Manager

Level
- Practitioner
- Practitioner
- Learner

Training Options
- Boot Camp
  - Oracle Exadata 11g Technical Boot Camp
- Online Training
  - Oracle Exadata 11g Technical Boot Camp – Overview

Sample Questions
- Which feature can reduce the amount of I/O processed and is unique to the Exadata Storage Server?
  A. Database Resource Manager
  B. Storage Indexes
  C. Partitioning
  D. Parallelism
Topic 2: Oracle Exadata software

Objectives

- Describe specific uses of offloading processing
- Implement I/O resource management
- Explain the architecture of I/O Resource Manager
- Describe the software architecture used by Oracle Exadata software
- Use Smart Flash Cache
- Compress data in a variety of ways
- Use ASM
- Understand how storage indexes operate
- Use intelligent data placement for optimal performance
- Configure data structures to insure caching

Level

Practitioner
- Describe specific uses of offloading processing
- Implement I/O resource management
- Explain the architecture of I/O Resource Manager
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Practitioner
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Learner
- Describe the software architecture used by Oracle Exadata software
- Use Intelligent data placement for optimal performance
- Configure data structures to insure caching

Training Options

- Boot Camp
  - Oracle Exadata 11g Technical Boot Camp
- Online Training
  - Oracle Exadata 11g Technical Boot Camp - Smart features
  - Oracle Exadata 11g Technical Boot Camp - Compression
  - Oracle Exadata 11g Technical Boot Camp - Storage indexes
  - Oracle Exadata 11g Technical Boot Camp - Resource Manager
  - Oracle Exadata 11g Technical Boot Camp - I/O Resource Manager
  - Oracle Exadata 11g Technical Boot Camp - Flash Cache

Sample Questions

- Which three are valid caching hints for a SQL statement?
  A. CACHE
  B. NOCACHE
  C. RECACHE
  D. FLUSH
  E. EVICT

- What should you do in order to use Hybrid Column Compression without having to update recent data frequently?
  A. Batch write operations to increase the efficiency of HCC.
  B. Partition table and use HCC on older, less updated partitions.
  C. Use HCC in archive mode.
  D. Avoid HCC
Topic 3: Oracle Database Machine hardware

Objectives
- Administer disks on the Oracle Exadata Database Machine
- Use network configuration options
- Manage storage on different disk configurations
- Understand memory capabilities of the different models

Level
- Practitioner
- Learner

Training Options
- Boot Camp
  - Oracle Exadata 11g Technical Boot Camp

Sample Questions
- How many IP addresses do you need to assign for each Exadata Storage Cell?
  A. 0
  B. 1
  C. 3
  D. 5
  E. It depends on the number of Exadata Storage Cells.
Topic 4: Configuration

Objectives

- Configure Oracle Exadata Database Machines
- Manage users and permissions
- Recommend the appropriate size Oracle Database Machine
- Test Oracle Database Machine after installation to verify success

Level

Practitioner

Learner

Training Options

- Boot Camp
  - Oracle Exadata 11g Technical Boot Camp
- Online Training
  - Oracle Exadata 11g Technical Boot Camp - CellCLI, DCLI and ADRCI
  - Oracle Exadata 11g Technical Boot Camp - Sizing for the Database Machine

Sample Questions

- Which Exadata Storage Server users can edit configuration files?
  A. sys
  B. guest
  C. master
  D. root
Topic 5: Administration

Objectives
- Load and backup data
- Implement failure and recovery procedures
- Install software onto Oracle Exadata Database Machine
- Monitor operation of Oracle Exadata Database Machine

Level
- Practitioner

Training Options
- Boot Camp
  - Oracle Exadata 11g Technical Boot Camp
- Online Training
  - Oracle Exadata 11g Technical Boot Camp - Exadata and availability
  - Oracle Exadata 11g Technical Boot Camp - Backup and recovery

Sample Questions
- Someone has pulled a Flash Card from a storage cell. What should you do to obtain HA?
  A. You must alter ASM to alert it.
  B. You must recreate any grid disks that use the drive.
  C. The cell must be rebooted.
  D. Nothing, as it will continue working just fine.
**Topic 6: Best practices**

**Objectives**
- Implement best practices for performance
  - Practitioner
- Implement best practices for consolidation
  - Practitioner
- Implement best practices for storage
  - Practitioner
- Implement best practices for migration
  - Practitioner

**Training Options**
- **Boot Camp**
  - Oracle Exadata 11g Technical Boot Camp
- **Online Training**
  - Oracle Exadata 11g Technical Boot Camp - Database Machine Performance
  - Oracle Exadata 11g Technical Boot Camp - Best practices for data loading
  - Oracle Exadata 11g Technical Boot Camp - Consolidation of mixed workloads
  - Oracle Exadata 11g Technical Boot Camp - Migrating to the Database Machine
  - Oracle Exadata 11g Technical Boot Camp - Why you don’t need an Exadata Database Machine

**Sample Questions**
- When designing a storage strategy for use on the Exadata Storage Server, you should...
  A. Have one grid disk on a cell disk.
  **B. Have two grid disks on a cell disk.**
  C. Have the failure group for a grid disk on a different cell disk.
  D. Have the failure group for a grid disk on the same cell disk.
  **E. Use an inner grid disk for data.**
  F. Use an outer grid disk for data.

- When consolidating multiple databases onto a single Oracle Exadata Database Machine, which approach should you take to help the machine support a mixed workload?
  A. Make sure that all high priority applications are latency-sensitive.
  B. Make sure that all high priority applications are throughput-sensitive.
  **C. Make sure that all high priority applications are either all latency-sensitive or all throughput-sensitive.**
  D. Make sure that high priority applications are balanced between latency-sensitive and throughput-sensitive.
Exam Registration

- **How to register for the exam?**
  You can register for all Oracle certification exams with Pearson VUE. Before a registration can be submitted, a Pearson VUE profile must be created using your Company ID. Your Company ID can be obtained by contacting your local Oracle Partner Business Center or by signing in to your OPN account. Your Company ID is located in the section on the right under "Company information".

  Please follow these instructions in order to properly set-up your Pearson VUE account for the first time.

- **Have you completed an Oracle Certification Exam in the past?**
  Due to systems enhancements, each partner who has completed an Oracle Certification Exam will need to update their Pearson VUE profile in order to receive credit and for those records to appear in the OPN Competency Center.

- **How to get full recognition as Certified Implementation Specialist?**
  To get full recognition as a Certified Implementation Specialist you need to:
  A. Update your Pearson VUE profile with your Company ID
  B. Activate your Certview Account

  Please follow these instructions and your records will be properly recorded.
SOFTWARE. HARDWARE. COMPLETE.