Exalytics In-Memory Machine X3-4 Implementation Essentials Exam Study Guide

Joshua Jeyasingh
WWA&C Partner Enablement
Objective & Audience

Objective
Help you prepare to take the Exalytics In-Memory Machine X3-4 Implementation Essentials (1Z1-484)
Exam by providing pointers to resources
that you can use in your preparation.

Targeted Audience

• Technical Consultants
• Strong foundation and expertise in implementing Business Analytics Solutions
• Candidates must also have knowledge of Oracle Business Analytics
• Up-to-date training and field experience are recommended
Exam Topics & Objectives

Exam Topics
The Oracle’s Exalytics In-Memory Machine X3-4 Implementation Essentials exam consists of eleven topics:

1. Exalytics Overview
2. Exalytics Architecture
3. In Memory Analytics
4. Advanced User Interactions
5. Times Ten
6. Summary Advisor
7. BI Server and Exalytics
8. Essbase and Exalytics
9. Exalytics Installation
10. Exalytics and Exadata
11. Automated Storage Management and Auto Service Requests
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.

  **OPN Competency Center** is an intelligent training tool that allows partners to manage their Oracle training with role-focused guided learning paths and measure their achievement toward Specialization.
Topic 1: Exalytics Overview

Objectives

- Provide an overview of Oracle Exalytics
- Describe the Oracle Exalytics products and components
- Describe the Hardware components of Exalytics
- Provide an overview of In Memory Analytics
- Describe the Memory Allocation in Exalytics

Level

Learner
Learner
Learner
Learner
Learner

Training Options

- Instructor-Led Training
  - Oracle Exalytics: Administration Seminar
  - Oracle BI 11g: New Features and Exalytics

Sample Questions:

What is the functional difference between Oracle Business Intelligence Foundation Suite components on Exalytics versus licensed separately?

a) Report Caching  
b) Aggregate Persistence Wizard  
c) Adaptive In-Memory Cache  
d) Memory Sharing across servers

Answer: C
Topic 2: Exalytics Architecture

Objectives

- Design an Exalytics architecture
- Install and configure the components within Exalytics
- Configure the management of Exalytics
- Configure disk and memory storage
- Design High Availability within Exalytics

Level

Learner
Practitioner
Practitioner
Practitioner
Practitioner

Training Options

- Instructor-Led Training
  - Oracle Exalytics: Administration Seminar
  - Oracle BI 11g: New Features and Exalytics

Sample Questions:

Can the Exalytics software be installed on a non-Exalytics machine to get the same performance?

a) No, Because you cannot install the Times Ten in memory database
b) No, Because summary advisor is only available on Exalytics machine
c) No, Because the version of BI Foundation runs only on the Exalytics machine
D )No, Because the Fusion Middleware components are specific to the Exalytics machine

Answer: B
Topic 3: In Memory Analytics

Objectives

• Manage data for In Memory Analytics
• Configure Times Ten In memory Database
• Describe the enhancements to Essbase
• Explain a replicated Data Warehouse
• Configure Intelligent Cache
• Implement tuning parameters to increase performance

Training Options

• Instructor-Led Training
  – Oracle Exalytics: Administration Seminar
  – Oracle BI 11g: New Features and Exalytics

Sample Questions:

A key innovation in Exalytics is that

a) It stores data from Disk to Memory to improve end user performance
b) It moves data from the source to the data warehouse to improve end user performance
c) It moves data from memory to the data warehouse to improve end user performance
d) It does not store any data

Answer: A
Topic 4: Advanced User Interactions

Objectives

• Create advanced Dashboard Interactions
• Implement a partial dashboard refresh
• Implement autocomplete prompts
• Develop and implement Right Click Interactions

Training Options

• Instructor-Led Training
  – Oracle Exalytics: Administration Seminar
  – Oracle BI 11g: New Features and Exalytics

Sample Questions:

Exalytics is best for which of the following, Please select all correct answers:

A) Detailed Reporting
B) Data Discovery
C) Executive Dashboards
D) Planning Application

Answers: B, C and D
Topic 5: Times Ten

Objectives

- Describe Times Ten In-Memory Database
- Describe the Exalytics features of Times Ten
- Implement Times Ten in Exalytics
- Configure In Memory database caching
- Implement separate Instances in TimesTen
- Execute the tools to load Times Ten
- Implement Times Ten in High Availability (HA)
- Configure Times Ten RAM policy, partition and config Files

Training Options

- Instructor-Led Training
  - Oracle Exalytics: Administration Seminar
  - Oracle BI 11g: New Features and Exalytics

Sample Questions:

What can’t I load my whole data mart into Times Ten – it is an In Memory Database? Choose the right answer:

A) You can! Times Ten can support any dataset size just like Exadata
B) Times Ten is targeted at Aggregate data for complex visualizations not detailed queries
C) Oracle is planning on supporting this in the future
D) TimesTen will eventually replace all databases at Oracle

Answer: B
Topic 6: Summary Advisor

Objectives

- Describe Summary Advisor
- Explain the requirements for Summary Advisor
- Implement the Summary Advisor Aggregate Life Cycle
- Implement Greedy Algorithm
- Design and develop Summary Advisor Tables
- Describe the Summary Advisor Steps and Wizard
- Describe the Model Checker
- Describe the differences between Summary Advisor and Aggregate Persistence
- Implement the Targets for Summary Advisor

Training Options

- **Instructor-Led Training**
  - Oracle Exalytics: Administration Seminar
  - Oracle BI 11g: New Features and Exalytics

Sample Questions:

What feature of the Oracle BI Admin Tool is unique to Exalytics

A) Enhance metadata modeling  
B) Summary Advisor for determining aggregate targets  
C) Performance layering  
D) Logical Table Sources

Answer :B
**Topic 7: BI Server and Exalytics**

**Objectives**

- Describe the Summary Advisor Aggregate Life Cycle - Algo and its use by the BI server

**Level**

Learner

**Training Options**

- Instructor-Led Training
  - [Oracle Exalytics: Administration Seminar](#)
  - [Oracle BI 11g: New Features and Exalytics](#)

**Sample Questions:**

Does the new In-memory caching have better performance with BI Foundation?

A) OBIEE caching is the same as In-memory caching  
B) The In-Memory data is created in an analytic database for faster performance  
C) The In-Memory data is stored in Essbase as Cubes for faster performance

Answer : B
Topic 8: Essbase and Exalytics

Objectives

- Explain the Essbase specific features for Exalytics
- Describe the EPM components that can be installed on Exalytics
- Describe the EPM components that cannot be installed on Exalytics
- Implement EPM on Exalytics
- Optimize ESSBASE for Exalytics
- Design and implement deployment scenarios and Opatch installation

Training Options

- Instructor-Led Training
  - Oracle Exalytics: Administration Seminar
  - Oracle BI 11g: New Features and Exalytics

Sample Questions:

For EPM Customers Exalytics is best for:

A) Large Planning Application
B) Hardware Consolidation
C) Optimizing Query Time
D) Concurrent Workload

Answer: A, B and D
Topic 9: Exalytics Installation

Objectives

- Explain all the components that can be installed on Exalytics
- Explain the process for installing on Exalytics
- Design Exalytics Software Architecture
- Install Exalytics components
- Implement the directory structure and standards

Training Options

- Instructor-Led Training
  - Oracle Exalytics: Administration Seminar
  - Oracle BI 11g: New Features and Exalytics

Sample Questions:

Under which directory should the Oracle Database 11gR2 should be installed on the Exalytics In-Memory Machine?

a. Under /u01/app/oracle/product/ [Hint: OBIEE is installed under /u01/app/oracle/product/fmw.]

b. Can be installed anywhere on the filesystem running on the Exalytics In-Memory Machine.

c. Oracle Database 11gR2 should not be installed on the Exalytics In-Memory Machine as it is not supported or certified to run on it. Ask your customer to use Exadata or run Oracle Database 11gR2 on a different server-class machine.

d. Can be installed in either of /dev/sdb1/ or /home/oracle/.

Answer: C
Topic 10: Exalytics and Exadata

Objectives

- Configure Exalytics for Exadata
- Describe the impact of OVM on Exalytics and Exadata
- Implement Infiniband Connectivity to Exadata
- Configure the Infiniband connection to improve performance
- Implement the process in choosing the Subnet Manager
- Explain the Kernam Module

Training Options

- Instructor-Led Training
  - Oracle Exalytics: Administration Seminar
  - Oracle BI 11g: New Features and Exalytics

Sample Questions:

Exalytics is different from Exadata and Exalogic because of which of the following reasons?

A) Terabyte of memory and large number of cores
B) Very high Infiniband connection
C) Runs weblogic and Oracle DB in memory at a very high speed
D) In-memory reporting and planning engine that uses large memory and large number of CPU
E) Uses in-memory Times-Ten transactional engine to perform OLTP operations

Answer: D
Topic 11: Automated Storage Management and Auto Service Requests

Objectives

- Design and implement Automated Storage Management
- Activate Exalytics assets
- Install and Configure Telemetry sources
- Configure Exalytics machine assets in my Oracle support
- Describe sending test alerts

Training Options

- Instructor-Led Training
  - Oracle Exalytics: Administration Seminar
  - Oracle BI 11g: New Features and Exalytics

Sample Questions:

If you want to enable an Exalytics Machine, Which portal will you use to activate your asset?

A) help.oracle.com
B) oracle.ilom.com
C) support.oracle.com
D) my.oracle.com

Answer: C
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.