Oracle Database 11g Essentials – Exam Study Guide

The Oracle Database 11g Essentials Exam Study Guide is designed to provide students with the information that can help them learn more to pass the Oracle Database 11g Essentials Exam (1Z0-514).

The exam audience is represented by implementation consultants that know how to install the Oracle Database 11g software and how to perform the tasks required to manage an Oracle database. The exam targets the intermediate-level implementation team member. Up-to-date training and field experience are recommended.

For each exam topic there have been identified alternative training options that are available at Oracle. Please note that some of the training recommended can cover multiple exam topics.

The exam covers 12 topics.

Topic 1: Oracle Database Implementation

Objectives
- Explain the features of security options in Oracle Database 11g
- Implement edition-based redefinition
- Explain the grid-enabling features in Oracle Database 11g
- Explain the enhanced manageability features in Oracle Database 11g

Training Options
- Instructor Led Training (delivered by Oracle University)
  - Oracle Database 11g: 2 Day DBA Release 2
- Oracle Database Documentation Library
  - Oracle Database 11g: 2 Day DBA

Topic 2: Overview of Oracle Database Administration

Objectives
- Describe the structure of a relational database and use of SQL
- Identify the components of an Oracle instance and database
- Describe the basic tasks that an Oracle DBA performs
- Define the tools that are used to administer an Oracle database

Training Options
- Instructor Led Training (delivered by Oracle University)
  - Oracle Database 11g: 2 Day DBA Release 2
- Oracle Database Documentation Library
  - Oracle Database 11g: 2 Day DBA
Topic 3: Installing and Creating Oracle Database

Objectives
- Install the Oracle Database software
- Create an Oracle database

Training Options
- Instructor Led Training (delivered by Oracle University)
  - Oracle Database 11g: 2 Day DBA Release 2
- Oracle Database Documentation Library
  - Oracle Database 11g: 2 Day DBA

Topic 4: Using Enterprise Manager Database Control & SQL*Plus

Objectives
- Start the Enterprise Manager dbconsole process
- Access Enterprise Manager Database Control
- Navigate in Enterprise Manager Database Control
- Grant Enterprise Manager administrative privileges
- Use SQL*Plus to access your database

Training Options
- Instructor Led Training (delivered by Oracle University)
  - Oracle Database 11g: 2 Day DBA Release 2
- Oracle Database Documentation Library
  - Oracle Database 11g: 2 Day DBA

Topic 5: Configuring the Oracle Network Environment

Objectives
- Describe the Oracle Network configuration
- Use the Enterprise Manager Net Services Administration page for Oracle Network configuration
- Use the Listener Control utility
- Configure a client to access an Oracle database

Training Options
- Instructor Led Training (delivered by Oracle University)
  - Oracle Database 11g: 2 Day DBA Release 2
- Oracle Database Documentation Library
  - Oracle Database 11g: 2 Day DBA

Topic 6: Managing the Oracle Instance
Objectives

Start up and shut down the Oracle instance
View the parameters that are used to configure the Oracle instance
Manage Oracle instance memory components

Training Options

- Instructor Led Training (delivered by Oracle University)
  - Oracle Database 11g: 2 Day DBA Release 2
- Oracle Database Documentation Library
  - Oracle Database 11g: 2 Day DBA

Topic 7: Managing Database Storage Structures

Objectives

Use Oracle Enterprise Manager to view database storage structures
Create and manage storage structures in your database
Reclaim unused space in your database
Manage structures used to undo the changes that are made to the database and maintain consistency

Training Options

- Instructor Led Training (delivered by Oracle University)
  - Oracle Database 11g: 2 Day DBA Release 2
- Oracle Database Documentation Library
  - Oracle Database 11g: 2 Day DBA

Topic 8: Administering Users and Security

Objectives

Create and administer users
Grant privileges to users to perform database operations
Create and manage roles

Training Options

- Instructor Led Training (delivered by Oracle University)
  - Oracle Database 11g: 2 Day DBA Release 2
- Oracle Database Documentation Library
  - Oracle Database 11g: 2 Day DBA

Topic 9: Managing Schema Objects

Objectives

Create and modify database tables
View data in the database
Create additional database objects
Load data into tables

Training Options

- Instructor Led Training (delivered by Oracle University)
  - Oracle Database 11g: 2 Day DBA Release 2
- Oracle Database Documentation Library
  - Oracle Database 11g: 2 Day DBA

Topic 10: Performing Backup and Recovery

Objectives
- Configure the database for backup and recovery operations
- Create and manage database backups
- Restore and recover the database
- Use flashback features
- Describe the Oracle Self-Monitoring Architecture
- Use the performance advisors to optimize database performance

Training Options

- Instructor Led Training (delivered by Oracle University)
  - Oracle Database 11g: 2 Day DBA Release 2
- Oracle Database Documentation Library
  - Oracle Database 11g: 2 Day DBA

Topic 11: Investigating, Reporting, and Resolving Problems

Objectives
- Use the Support Workbench to view critical error alerts
- Package diagnostic data for uploading to Oracle Support

Training Options

- Instructor Led Training (delivered by Oracle University)
  - Oracle Database 11g: 2 Day DBA Release 2
- Oracle Database Documentation Library
  - Oracle Database 11g: 2 Day DBA

Topic 12: Managing Oracle Database Software

Objectives
- Keep your Oracle Database software up-to-date with patch and software releases
- Upgrade a database

Training Options
- Instructor Led Training (delivered by Oracle University)
  - Oracle Database 11g: 2 Day DBA Release 2
- Oracle Database Documentation Library
  - Oracle Database 11g: 2 Day DBA