

A man with dark hair and a beard is sitting at a desk, looking down at a laptop. He is wearing a light-colored button-down shirt. His hands are on the keyboard. On the desk, there is a calculator and a smartphone. The background is slightly blurred, showing an office environment with windows and other people. A semi-transparent purple and yellow banner is overlaid across the middle of the image, containing the title text.

Oracle Database 12c - Installation and Administration



Practice Labs™

Oracle Database 12c - Installation and Administration



Lab Outline

The Oracle Database 12c - Installation and Administration (1Z0-062) Practice Lab will provide you with the necessary platform to gain hands on skills in Oracle. By completing the lab tasks you will improve your practical skills in Database Management Tools, Database instances, Configuring Oracle Network Environments, Managing Database Storage Structures, Administering User Security, Managing Space, Undo Data and Data Concurrency, implementing Database Audits, Performing Database Maintenance, Configuring Backup and Recovery, Installing Oracle and Creating and Upgrading Oracle Databases.

These same tasks will help you understand the objectives and competencies required by the Oracle 1Z0-062 certification exam.

Outcomes

After completing this Practice Lab, students will be able to:

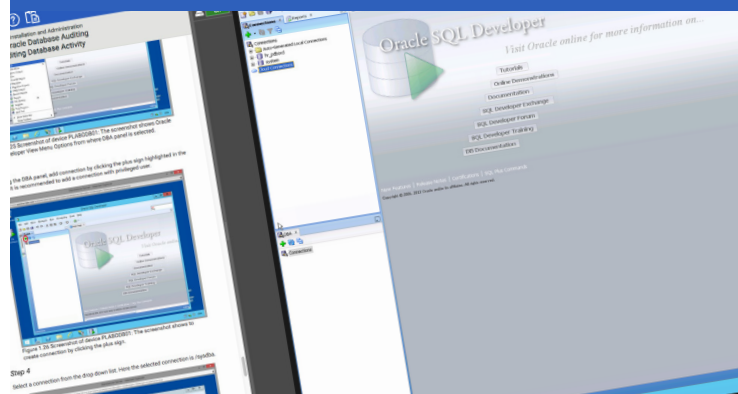
- Install Oracle 12c
- Upgrade to Oracle 12c
- Install Oracle Grid Infrastructure
- Create an Oracle Database
- Migrate data and automate tasks
- Use the Database Resource Manager to manage resources
- Implement auditing
- Be familiar with backup and recovery concepts
- Manage data concurrency and Undo
- Manage space and storage structures
- Implement user security
- Monitor database performance
- Manage database resources

Course Code
1Z0-062

Skill Level
Beginner

Released
Jan 2017

Duration
18 hours



Prerequisites

It is recommended that you have gained the following certification before attempting the 1Z0-062 exam:

- Oracle Database 12c - SQL Fundamentals (1Z0-061)

No prior hands-on experience is required to use or complete this Practice Lab, however it would be beneficial to be familiar with networking fundamentals and server technologies.

Who is it For?

The Oracle 1Z0-062 certificate is aimed at database administrators, database designers, support engineers, data warehouse administrators and IT professionals interested in progressing into a database role.

Additional Info

This Practice Lab focuses on the practical aspects of the Oracle 1Z0-062 exam objectives. It is therefore advised to refer to your own course materials to gain a deeper understanding of any theoretical aspects of the exam objectives.

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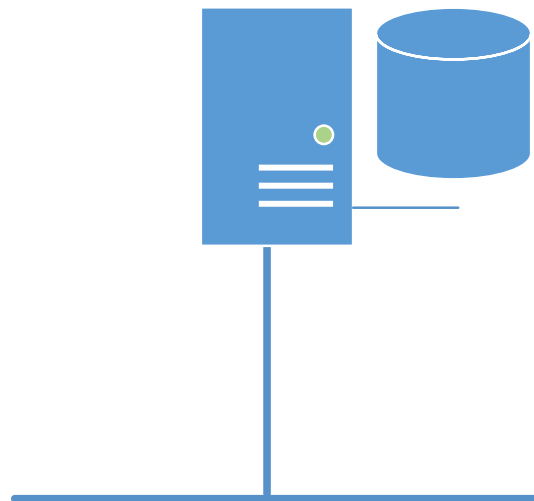
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Lab Topologies

You will also have access to the following topologies:

PLABODB01
192.168.0.1 /24



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Modules and Exercises

Oracle Database Instances

- Introduction
- Exercise 1 - Understanding Initialization Parameter Files
- Exercise 2 - Starting Up and Shutting Down an Oracle Instance
- Exercise 3 - Viewing the Alert Logs and Access Dynamic Performance View
- Summary

Configuring an Oracle Network Environment

- Introduction
- Exercise 1 - Managing Oracle Listeners
- Exercise 2 - Configure the Client Side Network
- Exercise 3 - Configure Communication Between Databases
- Summary

Managing Database Storage Structures

- Introduction
- Exercise 1 - Creating and Managing Table Spaces
- Summary

Administering User Security

- Introduction
- Exercise 1 - Create and Manage Database User Accounts
- Exercise 2 - Granting and Revoking Privileges
- Exercise 3 - Creating and Managing Roles
- Exercise 4 - Creating and Managing Profiles

Managing Space

- Introduction
- Exercise 1 - Using Compression to Save Space
- Exercise 2 - Monitor and Manage Tablespace Usage
- Exercise 3 - Manage Resumable Space Allocation
- Summary

Managing Data Concurrency and Undo

- Introduction
- Exercise 1 - Monitor and Administer UNDO
- Exercise 2 - Configure UNDO Retention
- Exercise 3 - Monitor and Resolve Locking Conflicts
- Summary

Implementing Oracle Database Auditing

- Introduction
- Exercise 1 - Monitor and Administer UNDO
- Exercise 2 - Configure UNDO Retention
- Exercise 3 - Monitor and Resolve Locking Conflicts
- Summary

Using Backup and Recovery Concepts

- Introduction
- Exercise 1 - Multiplexing Control Files
- Exercise 2 - Understanding Redo Log Files
- Exercise 3 - Understanding Archived Redo Log Files
- Exercise 4 - Understanding the Fast Recovery Area
- Exercise 5 - Backing Up the Control Files
- Exercise 6 - Understand how to Backup Database
- Exercise 7 - Understand how to Perform Backup Using RMAN
- Summary

Performing Database Recovery

- Introduction
- Exercise 1 - Performing Recovery Operations
- Exercise 2 - Recovering From User Errors
- Exercise 3 - Recovering From a Loss of a Control File
- Exercise 4 - Recovering From a Loss of a Redo Log File
- Exercise 5 - Recovering From a Loss of a Non System Critical Data File
- Exercise 6 - Recovering From a Loss of a System Critical Data File
- Summary

Moving Data

- Introduction
- Exercise 1 - Moving Data
- Exercise 2 - Using Data Pump to Move Data between Oracle Databases
- Exercise 3 - Using External Tables to Move Data
- Summary

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Modules and Exercises

Managing Database Performance

- Introduction
- Exercise 1 - Managing Optimizer Statistics
- Exercise 2 - Gathering Performance Statistics
- Exercise 3 - Automatic Database Diagnostic Monitoring
- Exercise 4 - Understanding Automatic Diagnostic Repository
- Exercise 5 - Automatic Shared Memory Management
- Exercise 6 - Automatic SQL Execution Memory Management
- Summary

Managing Resource Using Database Resource Manager

- Introduction
- Exercise 1 - Configuring the Database Resource Manager
- Exercise 2 - Accessing and Creating Resource Plans
- Exercise 3 - Monitor the Resource Manager
- Summary

Automating Tasks Using Oracle Scheduler

- Introduction
- Exercise 1 - Understanding Oracle Scheduler
- Exercise 2 - Using Oracle Scheduler
- Exercise 3 - Relating Tasks with Job Chains
- Exercise 4 - Scheduling Jobs on Remote Systems
- Exercise 5 - Prioritizing Jobs With Oracle Scheduler
- Summary

Installing Oracle Grid Infrastructure and Using Oracle Restart

- Introduction
- Exercise 1 - Creating Disk Groups
- Exercise 2 - Installing Grid Infrastructure for a Standalone Server
- Exercise 3 - Registering Components with Oracle Restart
- Exercise 4 - Starting and Stopping the Oracle Restart
- Summary

Installing Oracle 12c

- Introduction
- Exercise 1 - Installing Oracle Database Software
- Summary

Creating an Oracle Database Using DBCA

- Introduction
- Exercise 1 - Creating a Database using DBCA
- Exercise 2 - Configuring an Oracle Database Using DBCA
- Exercise 3 - Creating Template Definitions Using the DBCA
- Exercise 4 - Deleting an Oracle Database Using DBCA
- Summary

Upgrading to Oracle 12c

- Introduction
- Exercise 1 - Preparing a Database Upgrade
- Exercise 2 - Upgrading the Database
- Exercise 3 - Performing Manual Upgrade
- Summary

Migrating Data Using Oracle Data Pump

- Introduction
- Exercise 1 - Migrating Data Using Oracle Data Pump
- Summary