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# Oracle Exalogic Elastic Cloud 2.X: System Administration

- **Formato do curso:** Presencial
- **Preço:** 1701€
- **Nível:** Avançado
- **Duração:** 12 horas

Today's data centers often suffer from complexity, poor or inconsistent performance, and high labor costs. Additionally, years of expansion or acquisition coupled with the lack of a consistent infrastructure have hindered your ability to scale your data center to meet future demands. This course gives data center administrators the tools to use Oracle Exalogic to standardize and consolidate your infrastructure, and to also increase application performance. In addition to learning how to identify, manage, and monitor all Exalogic hardware components, students create a typical Fusion Middleware configuration that takes advantage of the unique networking and storage characteristics of Exalogic, including the InfiniBand fabric. Learn To:

- Describe the installation process for an Exalogic machine
- Connect to and manage all Exalogic hardware components
- Prepare Exalogic for a Fusion Middleware deployment
- Create a Fusion Middleware domain that is optimized for Exalogic
- Shape and manage Exalogic network traffic

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## Pré-requisitos

Prerequisites:

- Basic proficiency with the Unix VI editor

Suggested prerequisites:

- Familiarity with basic Unix network and storage concepts
- Familiarity with Fusion Middleware product stack
- Oracle WebLogic Server 11g: Administration Essentials

Recommended Related Training Courses:

- Oracle Enterprise Manager Ops Center 12c Administration

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## Programa

### The Exalogic Solution

- Data Center Challenges

- Major Features of Exalogic
- Software Compatibility

## **Hardware Components**

- Components of an Exalogic Machine and Their Relationships
- Hardware Specifications for an Exalogic Compute Node
- Hardware Specifications for the Exalogic Storage Appliance
- Comparing the Available Hardware Packages
- Opportunities for Scaling Your Exalogic Data Center

## **Initial Machine Configuration**

- Locating and Using Checklists and Worksheets to Plan an Installation
- How Oracle Initializes a Rack Based on Your Input
- Exalogic's Default Network Setup
- Basic Diagnostic Utilities
- Using the DCLI tool

## **Fusion Middleware Concepts**

- Typical JavaEE Deployment
- WebLogic's Domain Architecture
- The Purpose of the WebLogic Node Manager
- WebLogic's Recovery Services
- Discussing the Architecture and Capabilities of Coherence

## **Storage Configuration**

- Capabilities of the Storage Appliance
- Performing Basic Administration and Maintenance Tasks
- Configuring Appliance Access Services
- Exalogic's Default Storage Setup
- Creating Pools, Projects, and Shares
- Mounting a Shared File System Using NFS
- Administering the Appliance from the Command Line
- Recommended Configuration for Fusion Middleware

## **Network Configuration**

- Network Topology for Various Rack Configurations
- Identifying Switch LEDs and Replace Failed Hardware
- Accessing an InfiniBand Switch from the Browser or Command Line
- The Role of the InfiniBand Subnet Manager
- Configuring VLANs and InfiniBand Partitions
- Configuring a Compute Node's Network to Support Fusion Middleware

## **Getting Started with Fusion Middleware on Exalogic**

- Tasks Involved with Creating a Domain
- Installing WebLogic Server on Exalogic
- Creating a WebLogic Domain on Exalogic
- Creating and Sharing Domains from the Command Line
- Configuring a Coherence Server and Adding it to a Domain
- Configuring a Node Manager for a Compute Node
- Starting and Killing Servers by Using the Node Manager

### **Optimizing Fusion Middleware Domains for Exalogic**

- WebLogic's Default Network Behavior
- Configuring Network Channels for a WebLogic Server
- Some Optimizations that WebLogic Server Performs on Exalogic
- Some Optimizations that Coherence and Tuxedo Perform on Exalogic
- Comparing Exalogic's Connectivity with Exadata and Other Hardware

### **Getting Started with Traffic Director**

- Describing the Relationships Between Nodes, Configurations, and Instances
- Installing OTD and Creating Admin Nodes
- Starting and Stopping Nodes and Instances
- Configuring Virtual Servers and Routing Rules
- Configuring a WLS Origin Server Pool
- Configuring and Locating Log Files
- Defining OTD Failover Groups
- Optimizing OTD for Exalogic Deployments

### **Exalogic Database Connectivity**

- Explaining Basic Oracle RAC Concepts
- Comparing Exalogic's Connectivity with Exadata and Other Hardware
- The Capabilities of a GridLink Data Source
- Connecting WLS to a DB Cluster Using GridLink

### **Additional Fusion Middleware Infrastructure**

- The Features of Coherence
- Configuring a Coherence Server and Add it to a Domain
- The Features of Web Tier
- Configuring Web Tier to Proxy to a Cluster
- Starting Coherence and Web Tier Processes

### **Managing Hardware with ILOM**

- The Features of ILOM
- Updating Device Firmware
- Device Status and Health
- Configuring Conditions that Trigger Alerts

- Accessing ILOM from the Command Line

## **Disaster Recovery**

- Describing a Disaster Recovery Topology for Exalogic
- Configuration Tasks Associated with Disaster Recovery
- Configuring Storage Replication Networks, Targets, and Modes
- Performing Regular System Backups of Exalogic

## **Introduction to Virtual Data Centers**

- Some Benefits of Virtualization and Cloud Computing
- Describing Exalogic's Cloud Architecture
- Capabilities of Exalogic Control
- Explaining the Exalogic Control Installation Process
- Discussing a Typical Cloud Provisioning Workflow