Oracle Exalogic Elastic Cloud Overview Seminar

Duration: 1 Day

What you will learn

Today's data centers often suffer from complexity, inadequate security, poor or inconsistent performance, and high labor costs. Additionally, years of expansion or acquisition coupled with the lack of a consistent infrastructure can hinder your ability to scale your data center to meet future demands.
This course introduces data center and network administrators to Oracle's Exalogic solution, which is designed to help standardize and consolidate your infrastructure and also greatly increase application performance. Students first learn how to identify and perform basic administrative tasks on Exalogic's hardware components, including servers, switches and storage. Then they focus on optimizing Oracle software to best take advantage of this hardware configuration, including the InfiniBand fabric.

Learn To:
Compare Exalogic to a traditional middleware topolology
Describe the core features and components of Exalogic
Configure Exalogic's storage and network devices
Use Fusion Middleware and Oracle Exadata with Exalogic
Use Enterprise Manager to manage and monitor Exalogic

Audience

Data Center Manager
Network Administrator
System Administrator

Related Training

Suggested Prerequisites
Familiarity with Fusion Middleware product stack

Familiarity with basic Unix network and storage concepts

Oracle WebLogic Server 11g: Administration Essentials

Course Objectives

Install and configure WebLogic Server on Exalogic

Describe the capabilities of the WebLogic node manager

Compare Exalogic's connectivity with Exadata and other hardware

Connect WebLogic Server to an Oracle database cluster

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List several tools for monitoring Exalogic hardware or software

Perform basic Exalogic administration tasks with Grid Control and Ops Center

Describe the components of an Exalogic rack and their relationships

Compare the available hardware packages

Discuss opportunities for scaling your Exalogic data center

Describe Exalogic's default network and storage setup

Explain how Oracle initializes a rack based on your specifications

List some of the capabilities of ILOM

Customize the Exalogic storage or network configuration

Describe a typical Fusion Middleware installation on Exalogic

Configure the Exalogic network and storage to support Fusion Middleware

Course Topics

The Exalogic Solution
Why Data Centers?
Data Center Challenges
What is Exalogic?
Why Exalogic?
What is InfiniBand?
Java Performance
Software Compatibility
Licensing Overview

Hardware Components
Hardware Topology
Compute Nodes
Storage Appliance
InfiniBand Switches
Switch Hardware Views
Scaling Your Data Center
Hardware Package Details
Power Options

Hardware Configuration Overview
Exalogic Online Checklists
Site Requirements Overview
Hardware Installation Overview
OneCommand Overview
ILOM Overview

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InfiniBand Concepts
Storage Concepts
Creating a Project and a Share

Fusion Middleware on Exalogic
Middleware Concepts
WLS Exalogic Capacity Planning and Optimizations
FMW Network and Storage Setup
WLS Configuration Overview
Node Manager Review
Coherence Review
FMW Exalogic Topology Example
Web Tier Review

Exalogic Database Connectivity
Ethernet Connectivity
Oracle RAC Overview
Exadata Overview
Direct InfiniBand Connectivity
InfiniBand Subnet Manager
Active GridLink for RAC
Enabling SDP
Licensing Overview

Management and Monitoring
Available Tools (WLS console, WLDF, JRMC, FMW Control, Grid Control, Ops Center)
EM Grid Control Overview
Grid Control Architecture (agents, management service)
Grid Control and Exalogic (management agent, NFS agent)
Monitoring an Exalogic Target
Monitoring Hosts and Domain Members
EM Ops Center Overview
Ops Center and Exalogic (ILOM integration)

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