

## Oracle Exalogic Elastic Cloud 2.x: Middleware Deployment

**Duration:** 1 Day

### What you will learn

Note: No hands on lab environment for the TOD course.

The Oracle Exalogic Elastic Cloud 2.x: Middleware Deployment training utilizes a typical middleware application deployment and helps you take advantage of the unique storage, network, and cloud characteristics of Exalogic. This course teaches you the necessary skills and best practices to effectively implement an Oracle Fusion Middleware application, on the Oracle Exalogic platform.

### Learn To:

Plan, implement and tune the Fusion Middleware on a Virtual Data Center.

Configure shared storage and hosts to support Oracle middleware.

Identify the Middleware Cloud Assets to support the deployment.

Create Accounts, Virtual Networks, Virtual Servers and Distribution Groups.

Work with SDP, RDMA, and IMB to optimize the performance and scalability of WebLogic Server, Coherence and Tuxedo.

Install and Configure Oracle Traffic Director to intelligently load balance traffic to a middleware cluster.

### Audience

Application Server Administrators

Cloud Administrator

Cloud User

### Related Training

#### *Required Prerequisites*

Oracle Exalogic Elastic Cloud 2.x: Cloud Management

#### *Suggested Prerequisites*

Familiarity with basic Unix network and storage concepts

Oracle WebLogic Server 12c: Administration I

### Course Objectives

Configure shared storage and hosts to support Oracle middleware

Install and configure a middleware domain on Exalogic

Optimize WebLogic, Coherence, and Tuxedo configurations for Exalogic

Use Traffic Director to proxy requests to a middleware cluster

Design accounts, vNets, and vServers to support a middleware deployment

## Course Topics

### **Cloud Infrastructure for Middleware**

Why Host Fusion Middleware on Exalogic?

Sizing and Capacity Planning

How Many Instances to Run on a vServer?

vServer Type Best Practices

Recommended Network Topology

Allocating IP Addresses

Distribution Group Best Practices

### **Storage and Installation**

General Storage Recommendations

Recommended NFS Architecture

Storage Recommendations for FMW

FMW Storage Examples

How Many FMW Installations?

Redundant Installations and Rolling Upgrades

Configuring a Linux NIS Server

Configuring a Linux NIS Client

### **Domain Configuration**

Migrating Existing Domains to Exalogic

Shared or Separate Domain Folders?

Listen Address Recommendations

Adding Virtual IP Addresses to a vServer

Dynamic Cluster Recommendations

Configuring a JMS Store Location

Node Manager Recommendations

Scaling Up a Cluster on Exalogic

### **Performance Optimization**

Exabus

RDMA

SDP

Cooperative Memory Management

Using Multiple Channels for Replication

Using SDP for JDBC

Replicated Store

### **Traffic Director**

Deployment Topologies

Administration Architecture  
HA Architecture  
Configuration Architecture  
Creating and Starting Admin Nodes  
Configuring Virtual Server Routes  
Configuring Server Pools  
Creating a Failover Group