

Oracle Database Appliance Release 18c Overview

Duration: 2 Days

Course Outlines:

1 Introducing Oracle Database Appliance

- Objectives
- Oracle Database Appliance
- Engineered Infrastructure Delivers Optimized Results
- Simple
- Simplicity Through Integration
- Maximize Your Return on IT Resources
- Optimized
- High Availability and Integrated Security
- Affordable
- Manage License Costs Using Capacity On-Demand
- Reduced OPEX Through Simplicity and Automation
- Engineered Appliance Advantages
- Oracle Database Appliance
- Oracle Database Appliance X8 Model Family
- Oracle Database Appliance X8 | Model Family Hardware Summary
- Oracle Database Appliance X8-2S – Small Hardware Configuration
- Oracle Database Appliance X8-2M – Medium Hardware Configuration
- Storage Architecture Oracle Database Appliance X8-2S/X8-2M
- Estimated Usable Space Oracle Database Appliance X8-2S/X8-2M
- Oracle Database Appliance X8-2S/X8-2M Public Network Details
- Oracle Database Appliance X8-2-HA – High Availability Configuration
- Oracle Database Appliance X8-2-HA Storage Architecture
- Estimated Usable Space Oracle Database Appliance X8-2-HA High Performance Configuration
- Estimated Usable Space Oracle Database Appliance X8-2-HA High Capacity Configuration
- Expanding Storage in Oracle Database Appliance X8-2-HA
- Oracle Database Appliance X8-2-HA Bare Metal Network Details
- Oracle Database Appliance X8-2-HA Virtualized Platform Network Details

- Oracle Database Appliance
- Oracle Database Appliance Software Stack
- Oracle Database Licensing Supported on Oracle Database Appliance
- Standard Edition Versions and Features Supported
- Enterprise Edition Versions and Features Supported
- Oracle Database Appliance – Appliance Manager
- Virtualization on Oracle Database Appliance
- Virtualization Architecture
- Additional Information

2 Preparing for Deployments

- Objectives
- Registering with Oracle Support and Downloading the Latest Software
- Checking the Shipment
- Site Preparation: Electrical and Environmental
- Site Preparation: Physical Specifications
- Racking Oracle Database Appliance
- Rack Mounting the Storage Shelf (Oracle Database Appliance DE3-24C)
- Rack Mounting the Server Nodes
- Cabling Oracle Database Appliance
- Cabling Oracle Database Appliance X8-2S/X8-2M
- Cabling Oracle Database Appliance X8-2-HA
- Powering On the Oracle Database Appliance X8-2S/X8-2M
- Powering On the Oracle Database Appliance X8-2-HA
- Oracle Integrated Lights Out Management (ILOM)
- Multiple Options to Configure Oracle ILOM
- Plumbing the Network

3 Introduction to Deployments

- Objectives
- Key Oracle Database Application Documents
- Oracle Database Deployment Options
- Selecting Database Shapes
- OLTP Workload Database Shapes
- DSS Workload Database Shapes
- In-Memory Workload Database Shapes
- Storage Options
- Configuration Options and Requirements
- Configuration Requirements

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COURSE OUTLINE

4 Bare Metal Deployments

- Objectives
- About Bare Metal Deployments
- Oracle Database Appliance Base Software
- Oracle Database Appliance Software
- Oracle Database and Oracle Grid Infrastructure Clones
- Bare Metal Operating System ISO Image
- Tasks to Complete Before Deployment
- Copying the Deployment Software to Oracle Database Appliance
- Multi-node Bare Metal Deployment (Launch the Browser User Interface)
- Multi-node Bare Metal Deployment (Configure System)
- Multi-node Bare Metal Deployment (Configure Client Access Network)
- Multi-node Bare Metal Deployment (Configure Scan and VIP Network)
- Multi-node Bare Metal Deployment (Configure ILOM Network)
- Multi-node Bare Metal Deployment (Configure Users and Groups)
- Multi-node Bare Metal Deployment (Configure Database)
- Notes only
- Multi-node Bare Metal Deployment (Configure ASR)
- Multi-node Bare Metal Deployment (Submit Configuration Details)
- Loading Oracle Database Appliance Configuration From a Configuration File
- Oracle Database Appliance Default Security Settings
- Changing Installation Owner Passwords
- Changing the IPMI Username and Password

5 Managing Databases for Bare Metal Oracle Database Appliance

- Objectives
- Database Performance and Workload Sizing Considerations
- Default Administrative Groups and Users
- Directory Paths for Oracle Database Appliance
- Viewing Existing Databases
- Creating a New Database
- Notes only
- Deleting a Database
- Viewing Existing Database Homes
- Creating a New Database Home
- Deleting a Database Home

6 Oracle Database Appliance Backup and Recovery

- Objectives
- Overview of Backup and Recovery
- Backup Levels
- Recovery Options
- Backing Up to Disk or Internal FRA Workflow
- Backing Up to Oracle Object Storage Workflow
- Backing Up to External FRA or NFS Workflow
- Creating a Backup Policy
- Updating a Backup Policy
- Deleting a Backup Policy
- Adding a Backup Policy to a Database
- Creating a Database Backup
- Recovering a Database from Backup

7 Patching Bare Metal Oracle Database Appliance

- Objectives
- Overview of Patching
- Patching Options
- Upgrading Oracle Database Appliance
- Upgrade Path
- The Patching Process
- Downloading the Server Patch Bundle
- Updating the Patch Repository Using the Browser User Interface
- Updating Agent, Storage, DCS, and Server Components Using the Browser User Interface
- Patching a Database Home Using the Browser User Interface
- Upgrading a Database
- Updating the Patch Repository Using Command-Line
- Updating the DCS Agent Using Command-Line
- Updating the Server and Storage Using Command-Line
- Patching a Database Home Using Command-Line
- Upgrading a Database Using Command-Line

8 Administering Bare Metal Oracle Database Appliance

- Objectives
- Using the Browser User Interface for Administration
- Using CLI for Administration
- Understanding Configuration
- Network Options
- Updating a Network
- Virtual Local Area Network Administration
- Creating a New VLAN Using Browser User Interface
- Storage Administration
- Using Browser User Interface for Monitoring: Bill of Materials

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- Using Browser User Interface for Monitoring: Hardware
- Diagnostics
- What Is Auto Service Request?
- How Does Oracle ASR Work?

9 Introduction to Virtualized Platform

- Objectives
- What Is Virtualization?
- Advantages of Virtualization
- Why Virtualize Applications on Oracle Database Appliance?
- Virtualization on Oracle Database Appliance
- Differences Between OVM and KVM
- Overview: Provision and Deploy Virtualized Platform

10 Provisioning an Oracle Database Appliance Virtualized Platform

- Objectives
- Configuring Virtualized Platform OS ISO Images
- Virtualized Server Platform
- VM ISO Image (Dom0)
- OS Re-image and Restore Steps (1–12)
- Creating Initial Network Using configure-firstnet Script
- Optional: Creating a VLAN

11 Installing Virtualized Platform Software and Deploying the Appliance (ODA_BASE)

- Objectives
- ODA_BASE Template (Virtualized Deployments Only)
- Transferring the ODA_BASE Template to ODA
- Installing the ODA_BASE Template
- Configuring the ODA_BASE Template
- Validating Deployment
- Configuring Public Network for ODA_BASE
- Updating Server and Storage Components
- Information Needed for Deployment: Network
- Information Needed for Deployment: Database
- Understanding Database Shapes (Templates)
- Database Template Storage Performance
- Collecting Information Needed: Security and Storage
- Real-Time Configuration and Deployment
- Verifying VM Image and Cabling
- Virtualized Platform Deployment
- Oracle Database Appliance Manager Stand-alone Configurator
- Start Configurator
- Welcome Window

- Configuration Type Window
- System Information Window
- Network Information Window
- Database Information Window
- Network Validation Window
- Summary Window
- Configuring CPU Core Count
- Securing Oracle ILOM Service Processors
- Changing Installation Owner Passwords
- Changing the IPMI Username and Password

12 Deploying and Managing Guest VMs

- Objectives
- Virtualized Server Release or Revision Updates Are Image Updates
- Understanding Oracle VM Guests
- Deploying Virtual Guest Machines to Create Solutions-in-a-Box
- Shared Repositories: Overview
- Supporting Application Workloads Through Virtualization
- Solution-in-a-Box Series
- Deploying Virtual Guest Machines
- Staging the Downloaded Template and Cloning the VM
- Example of a Created VM
- Configuring the Template
- Starting the Virtual Machine
- Working with Shared Repositories (Steps 1–7)
- Creating VLANs
- CPU Pools on Virtualized Platform Deployments
- CPU Pool Management Commands

13 Managing Databases for Oracle Database Appliance Virtualized Platform

- Objectives
- VM Performance Considerations
- Selecting the Right Size and Shape for Your Use Case
- Workloads and Database Shapes and Sizes
- Default Administrative Groups and Users
- Creating a New Virtualized Platform Database
- Directory Paths
- Modifying an Existing Database
- Managing Databases
- Creating Additional Databases
- Integrated Database Snapshots
- Database Snapshots: Storage Space Benefits
- Database and VM Snapshots
- Creating Snapshot Databases
- The Patching Process (Steps 1–3)

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