

Oracle Database 12c: ASM Administration

Duration: 2 Days

What you will learn

This Oracle Database 12c: ASM Administration training teaches you about Oracle ASM architecture. Expert Oracle University instructors will help you develop a deeper understanding of both standard ASM and Flex ASM applications.

Learn To:

Administer ASM files, directories, templates, and disk groups.

Manage and administer Oracle Cloud File System and its components.

Configure and manage advanced CloudFS features like ACFS Auditing and Encryption, ACFS Replication and High Availability NFS.

Benefits to You

Ensure fast, reliable, secure and easy to manage performance. Optimize database workloads, lower IT costs and deliver a higher quality of service by enabling consolidation onto database clouds by learning about the Oracle Database 12c Grid Infrastructure, specifically Oracle ASM.

Audience

Administrator

Database Administrators

Related Training

Required Prerequisites

Working knowledge of Oracle Database 11g: Release 2, including Clusterware, ASM and RAC

Suggested Prerequisites

Oracle Database 12c: RAC Administration

Course Objectives

Describe the components of ASM

Explain and apply Automatic Storage Management (ASM) initialization parameters

Manage ASM instances and associated processes

Monitor ASM using the V\$ASM dynamic performance views

Understand Flex ASM architecture and components

Understand ASM Deployment Alternatives

Install and configure Flex ASM

Manage Flex ASM

Employ ASM space management techniques

Create and delete Automatic Storage Management (ASM) disk groups

Set the attributes of an existing ASM disk group

Perform ongoing maintenance tasks on ASM disk groups

Explain key performance and scalability considerations for ASM disk groups

Describe the Automatic Storage Management (ASM) architecture

Use different client tools to access ASM files

Describe the format of a fully qualified ASM file name

Course Topics

Oracle ASM Overview

Overview of ASM

ASM Placement in Storage Stack

ASM Cluster Configuration for Oracle RAC

ASM System Privileges

ASM OS Groups and Role Separation

ASM Components

Software

Configure disks as ASM candidate disks

Oracle ASM Instance Administration

ASM Instance Administration

Instance Parameters

ASM_DISKGROUPS

Adjusting ASM Instance Parameters in SPFILEs

Instance Startup and Shutdown

Relevant V\$Views

Flex ASM

Flex ASM Architecture

Background and Overview

ASM Deployment Alternatives

Configuring Flex ASM

Managing Flex ASM

Relocating an ASM Client

Administering ASM Disk Groups

- ASM Disk Group Overview
- Disk Group Attributes
- Compatibility Attributes
- Disk Group Management
- Disk Group Metadata
- Viewing Connected Clients
- Disk Group Rebalance
- ASM Fast Mirror Resync

Administering ASM Files, Directories, and Templates

- Interaction Between Database Instances and ASM
- Accessing ASM Files
- Fully Qualified ASM File Names
- ASM File Creation
- View ASM Aliases, Files, and Directories
- ASM Directories Overview
- Managing ASM Directories
- Managing Alias File Names

Administering Oracle Cloud File System

- Oracle Cloud File System Components
- Overview of Oracle ACFS
- Oracle ASM Dynamic Volume Manager
- High Availability NFS (HANFS) Overview
- Oracle ACFS Integration with Oracle ASM
- Oracle ACFS Administration
- Clusterware Resources and ACFS Administration
- ACFS and Dismount or Shutdown Operations