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Oracle Grid Infrastructure Architecture

- Oracle Clusterware concept
  - What is Cluster?
  - What is Clusterware?
  - Oracle Clusterware Architecture and Services.
  - Oracle Clusterware Networking
- Oracle Clusterware Architecture
  - Oracle Clusterware startup
  - Oracle Clusterware Process Architecture.
  - Grid plug and Play
  - GPnP Domain
  - GPnP Components
  - GPnP Profile
  - Grid Naming service
  - Single Client Access Name(SCAN name)
- ASM Architecture
  - ASM and ASM Cluster File System
  - ASM keys Features and Benefits
  - ASM Instance Design
    - Nonclustered ASM and Oracle Database
    - Clustered ASm and Clustered Database.
    - ASM system privileges
    - ASM OS GROUP with Role Separation
    - Authentication for Accessing ASM Instance
    - Using single OS Groups
    - Using separate OS Groups
    - ASM Disk Group
    - ASM failure Group
    - ASM files
    - ASM Extents and Stripping
    - ASM Mirroring

- Grid Infrastructure Installation
  - Pre Installation Planning
    - Shared Storage Planning for Grid Infrastructure
    - Sizing Shared Storage
    - Storing the OCR in ASm
    - Oracle Clusterware Repository(OCR)
    - Managing Voting Disks in ASM

- CSS Voting Disk function
- Oracle Clusterware Main log files
- Installing ASMlib
- Preparing ASMlib

- Grid Infrastructure Pre Installation Tasks
  - Oracle Grid Infrastructure Installation
  - Checking System Requirements
  - Checking Network Requirements
  - Software Requirement Packages
  - Creating Group and Users
- Grid Infrastructure Installation
  - Installing Grid Infrastructure
  - Grid Plug and Play support
  - Cluster Node Information
  - Specify Network Interface Usage
  - Storage option Information
  - Privileged Operating System Groups
  - Installation and Inventory locations
  - Prerequisite Checks
  - Finishing the Installation
  - Verifying the Grid Infrastructure Installation

Administering Oracle Clusterware
- Managing Oracle Clusterware
- Controlling Oracle Clusterware
- Verifying the status of Oracle Clusterware
- Determining the location of Oracle Clusterware Configuration files
- Backing Up and Recovery of Voting Disks
- Adding, Deleting or Migrating Voting Disks
- Locating the OCR Automatic Backups
- Changing the OCR Automatic Backups Locations
- Adding, Replacing and Repairing OCR Locations
- Performing Manual OCR Backups
- Recovering the OCR by Using Physical Backups

Managing Oracle Clusterware
- Adding New Nodes in Clusterware
  - Requirements to Add a new node in Cluster
  - Steps to add a new node in a Cluster
- Deleting a Nodes from a Clusterware
  - Requirement for removing a node from a Cluster.
  - Steps to remove a node from a Cluster.
  - Non RAC to RAC Database.
  - RAC to Non RAC Database.

- Administering ASM Disk Groups
  - Objectives

Disk Group Overview
Creating a New Disk Group
Creating a New Disk Group with ASMCMD
Disk Group Attributes
V$ASM_ATTRIBUTE
Compatibility Attributes
Features Enabled by Disk Group Compatibility Attributes
Support for 4KB Sector Disk Drives
Supporting 4 KB Sector Disks
ASM Support for 4KB Sector Disks
Viewing ASM Disk Groups
Viewing ASM Disk Information

Cache Fusion Concepts and Theory.

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