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1. Introduction to Oracle RAC

- ✓ Introduction to Clusters
- ✓ About Clusterware
- ✓ What is RAC?
- ✓ Overview of Oracle Clusterware
- ✓ Overview of Storage in RAC
- ✓ Overview of Oracle ASM
- ✓ Benefits of RAC
- ✓ Tools for Managing RAC

2. Overview of Oracle Standard Cluster, Flex Cluster & Flex ASM

- ✓ Overview of Standard Cluster
- √ Flex Cluster Architecture
- ✓ Hub Nodes & Leaf nodes
- √ Flex ASM Architecture
- ✓ Benefits of Flex ASM
- ✓ Oracle Flex ASM Clusters Network
- ✓ Oracle Flex ASM Listener
- ✓ Oracle Grid Infrastructure Management Repository
- ✓ IPV6 Support for Public Networks
- ✓ Overview of GNS
- ✓ Shared GNS

3. Oracle Clusterware Concepts

- ✓ About OCR & Voting disks
- ✓ About Cluster Interconnect
- ✓ Oracle Clusterware processes
- ✓ About Virtual IPs (VIP)
- ✓ Single Client Access Name (SCAN)

4. ASM Concepts

- ✓ ASM Instances
- ✓ ASM Disks & Disk Groups
- ✓ ASM Mirroring & Failure groups
- ✓ ASM Files, Extents, Allocation Unit

5. Preparing for Oracle 12C Grid Infrastructure Installation

- √ Verifying System Requirements
- ✓ Configuring the Network
- ✓ Preparing the Operating System
- ✓ Configuring Users & Groups
- ✓ Configuring SSH
- ✓ Configuring Installation Directories
- ✓ Configuring Shared Storage

6. Installing Oracle 12C Grid Infrastructure

- ✓ Verifying installation requirements with Cluster Verification Utility
- ✓ Installing the Oracle Grid Infrastructure
- ✓ Verifying Oracle Clusterware Installation

7. Installing & Creating Oracle 12c RAC Database

- ✓ Installing Oracle Software
- ✓ Creating Additional Disk Groups
- ✓ Creating RAC Database
- ✓ Verifying RAC Database Creation

8. Administering Oracle Clusterware

- ✓ Oracle Clusterware Processes
- ✓ Starting & Stopping Clusterware
- ✓ Enabling & Disabling Clusterware
- ✓ Checking the Integrity of OCR & Voting Disks
- Adding/Removing OCR Locations & voting disks
- ✓ Backup of OCR & Voting disks
- ✓ OCR backups to Oracle ASM Diskgroups

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9. FLEX Administration

- √ Verifying Cluster mode
- √ Verifying ASM mode
- ✓ Testing ASM Failure in Flex ASM

10. Administering ASM Instances

- ✓ Initialization Parameters for ASM Instances
- ✓ Parameter Files for ASM Instances
- ✓ Shared Oracle ASM Password File in a Disk group
- ✓ Starting & Stopping ASM Instances

11. Administering ASM Disk Groups

- ✓ Creating Disk groups
- ✓ Altering Disk groups
- ✓ Adding & Removing Disks
- ✓ Mounting & Dismounting Disk Groups
- ✓ Dropping Disk Groups
- ✓ ASM Failure Groups

12.Administering ASM Directories & Files

- ✓ ASM Directory structure
- ✓ Managing ASM Directories
- ✓ ASM Files
- ✓ Fully Qualified File Names
- ✓ Alias File Names
- ✓ Incomplete File Names

13.ASM Command-Line Utility (ASMCMD)

- ✓ Types of ASMCMD commands
- ✓ Running ASMCMD in Interactive mode
- ✓ Running ASMCMD in Non-Interactive mode

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14. Oracle RAC Architecture

- ✓ Instance in RAC
- ✓ Cache Fusion in RAC
- ✓ Database in RAC

15. Administering RAC Instances & Database

- ✓ Overview of RAC DB Administration
- ✓ Starting and Stopping RAC Instances and Databases
- ✓ Terminating Sessions in RAC
- ✓ Initialization Parameters in RAC
- ✓ Data Dictionary in RAC
- ✓ Files in RAC
- ✓ Archiving in RAC
- ✓ Client connections in RAC

16. Workload Management with Services

- ✓ Introduction to Oracle Services
- ✓ Default Services
- ✓ Creating Services
- ✓ Preferred & Available Instances
- ✓ Administering Services
- ✓ Using Services with Client Applications
- ✓ Transparent Application Failover (TAF)
- ✓ TAF with Client-side configuration
- ✓ TAF with Services

17.Backup & Recovery in RAC

- ✓ Configuring RMAN Snapshot Control File location
- ✓ Configuring Control File & SPFILE auto backups
- ✓ Configuring Channel connections in RAC
- ✓ Instance Recovery in RAC
- ✓ Media Recovery in RAC
- ✓ Parallel Recovery in RAC

18. Migrating non-ASM Database to ASM

- ✓ Why migrate to ASM?
- ✓ Basic concepts of migrating to ASM
- ✓ Preparing to migrate to ASM
- ✓ Migrating Database to ASM

19. Converting Single Instance Database to RAC Database

- ✓ About rconfig utility
- √ Verifying prerequisites
- ✓ Using rconfig for Conversion

20. Patching RAC Environments

- ✓ Patchset, Bundle Patch, One-Off Patch, Patchset Updates
- ✓ Rolling Patches, OPatch Utility
- ✓ Downloading & Analyzing Patches
- ✓ Installing Rolling Patches
- √ Verifying Patch Application

21.Adding & Deleting Nodes and Instances in RAC

- ✓ Preparing the new node
- ✓ Extending Oracle Grid Infrastructure & Oracle RAC to the new node
- ✓ Creating new Instance
- √ Verifying new Instance
- ✓ Deleting Instances
- ✓ Deleting Nodes