



ONLINE TRAINING

Oracle Database Administration (DBA)

Course Curriculum



INTRODUCTION ORACLE DATABASE ARCHITECTURE

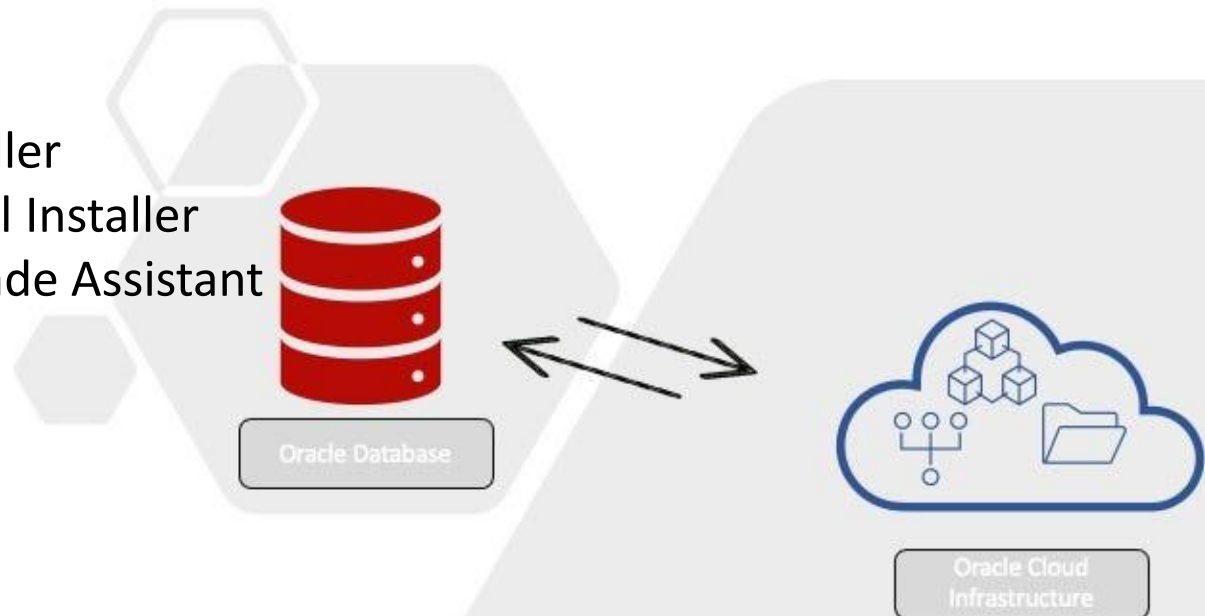
1. Outline Of Oracle Architecture And Its Main Components
2. Oracle Memory Structure
3. Oracle Background Process
4. Process Structure
5. Oracle Environment Variables
6. Default Values





CORE DBA TASKS AND TOOLS

1. Oracle DBA Roles And Responsibilities
2. Overview Of Administrative Tools
3. Oem
4. Dbca
5. Listener Controller
6. Oracle Universal Installer
7. Database Upgrade Assistant
8. Oracle Net Manager





INSTALLING THE ORACLE DATABASE SOFTWARE

1. Check System Requirements And Installing Oracle Software
2. Creating An Oracle Database
3. Creating Database Automatically With OUI While Installing Oracle Software





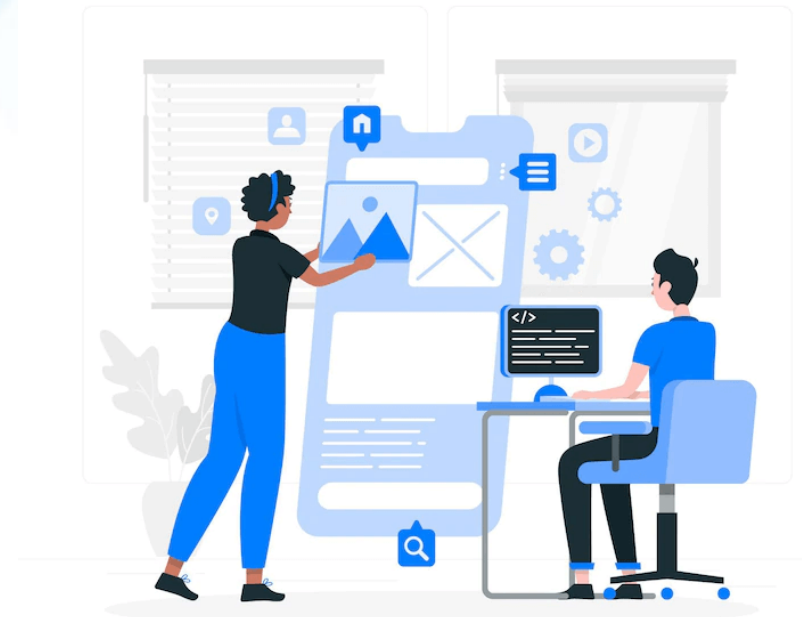
MANAGING ORACLE INSTANCE

1. Creating SP File
2. Creating Pfile
3. Creating SP File From Pfile
4. Creating Pfile From Spfile
5. Backing Up Of Pfile And Spfile
6. Multiplexing SP File



STARTUP AND SHUTDOWN ORACLE INSTANCE

1. Check The Oracle Service At OS Level
2. Connecting To Oracle Instance
3. Oracle Instance Shutdown Process
4. Oracle Instance Startup Process
5. Monitor And Use Diagnostic Files
6. Tracing And Trace Files
7. Oracle Log File





MANAGING DATABASE STORAGE STRUCTURES

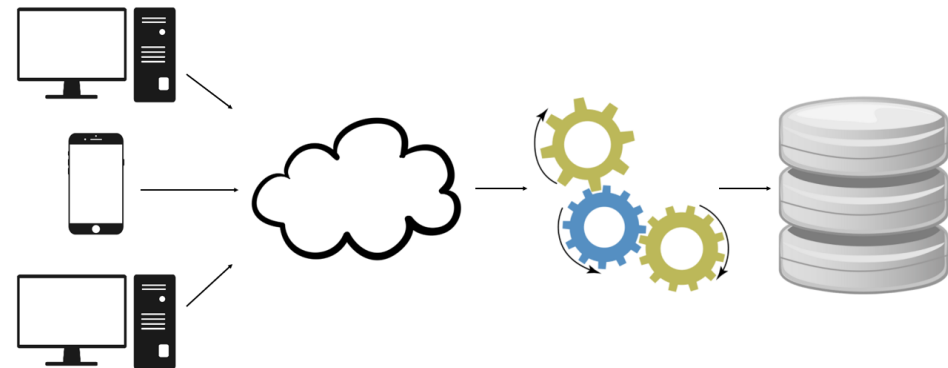
1. Creating Tablespace
2. Os File System Vs Database File System
3. Database Manages Tablespaces
4. User Managed Tablespaces
5. Data Dictionary Related To Tablespaces
6. Managing Tablespace
7. Adding Datafiles To Tablespace
8. Automatic Extension Of Tablespace
9. Setting Database Block Size
10. Setting Segment Size
11. Dropping Tablespace
12. Renaming Tablespace
13. Renaming Datafile
14. Moving Datafile
15. Using Read-only Tablespace





ORACLE FLASH BACK

1. Oracle Flashback Deep Dive
2. Oracle Flashback Features
3. Using DBMS_FLASHBACK Package
4. Flashback Table
5. Flashback Query
6. To FLASHBACK To Specific ROWID





INTRODUCTION TO AUTOMATIC UNDO MANAGEMENT

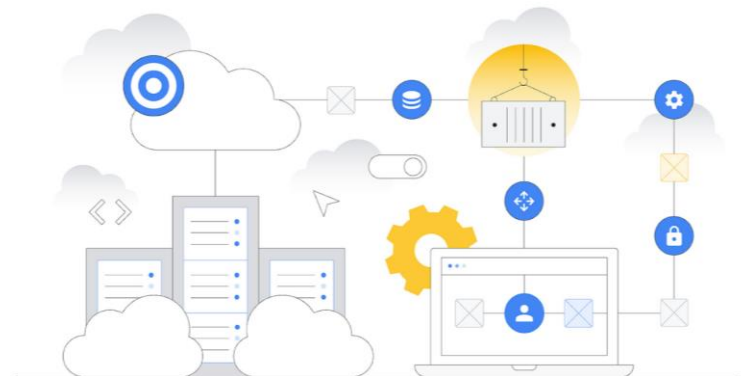
1. Parameters To Enable Automatic UNDO Management
2. Data Dictionary Related UNDO Management
3. Getting Info About UNDO Tablespace
4. Setting UNDO Retention Period
5. Managing Undo Tablespaces
6. Sizing UNDO Tablespace
7. Adding Datafile To UNDO Tablespace
8. Migrating To Automatic UNDO Management





ESTABLISHING A DATABASE CONNECTION

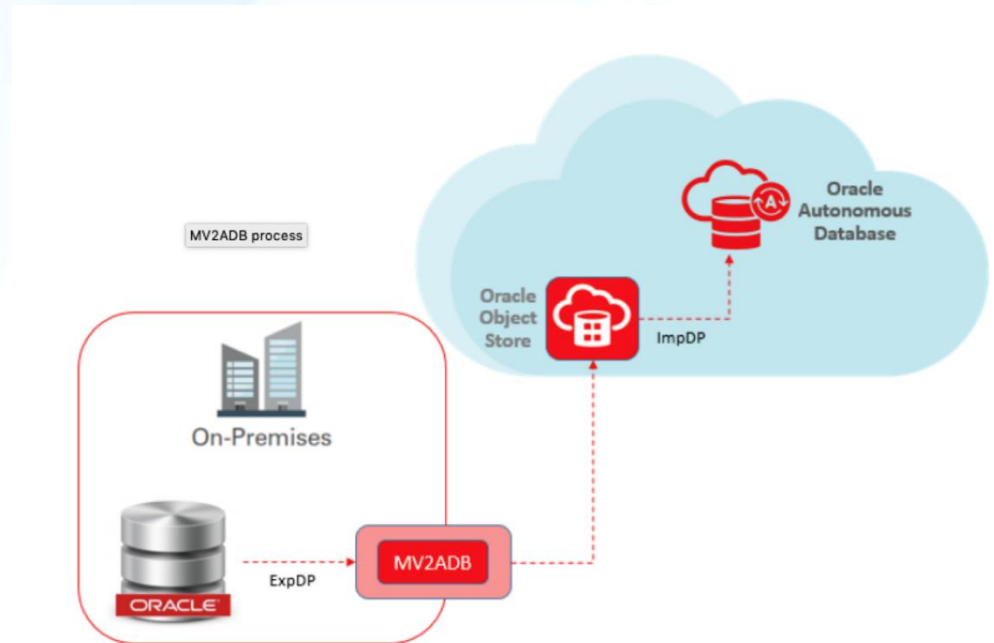
1. User Connection
2. System Connection
3. Allotting Space And Process To User Connections
4. Blocking/Locking/Session Details
5. Data Dictionary Related To Network In The Database
6. Listener Connectivity
7. Managing Entries In Tnsnames.Ora





TOOLS FOR CONFIGURING

1. Oracle Net Manager
2. Listener Controller (Lsnrctl)
3. Understanding Tnsnames.Ora
And EZCONNECT



CREATE AND MANAGE DATABASE USER ACCOUNTS

1. Database User Management
2. To Create Uses In The Database
3. To Delete Users In The Database
4. Data Dictionary Related To Users In The Database
5. Oracle Password Complexity





GRANT AND REVOKE PRIVILEGES

1. To Grant/Revoke System Privileges
2. To Grant/Revoke Object Privileges
3. Data Dictionary Related To Privileges
4. Privilege Deligation





CREATE AND MANAGE ROLES

1. Managing System Roles In The Database
2. To Assign Privileges To Roles
3. Understanding Roles And Password Protected Roles
4. To Assign Roles And Password Protected Roles To Users
5. Data Dictionary Related To Roles Create And Manage Profiles
6. To Reset User Password
7. To Lock Unlock User Account
8. To Create Profile And Assign To User
9. To Define Parameters In The Profile
10. To Define Quotas To User



BACKUP AND RECOVERY

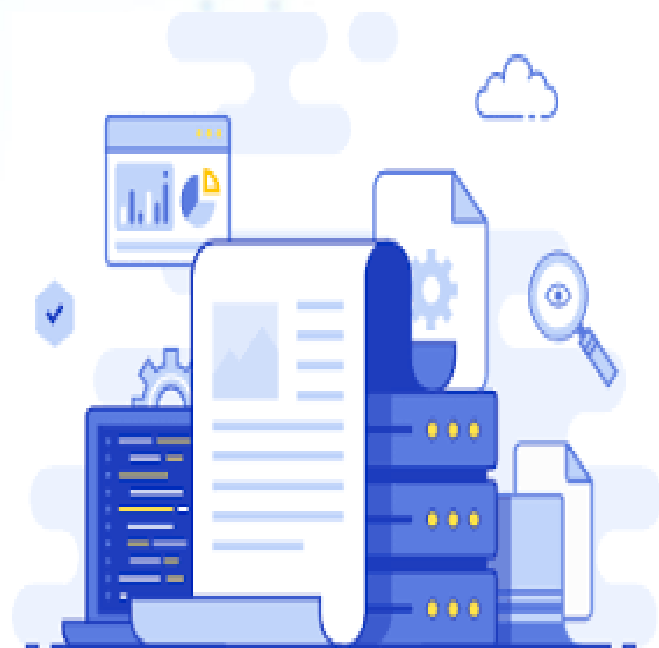
1. What Is Database Back Up
2. Files Required For Full Back Up
3. To Restore Database
4. Restore Using Redo Log Files
5. RMAN Back Backup
6. Creating Backup Sets
7. Listing Backup Sets
8. Incomplete Recovery (Change based, Cancel-based, And Time-based)





LIST THE TYPES OF FAILURE THAT MAY OCCUR IN AN ORACLE DATABASE

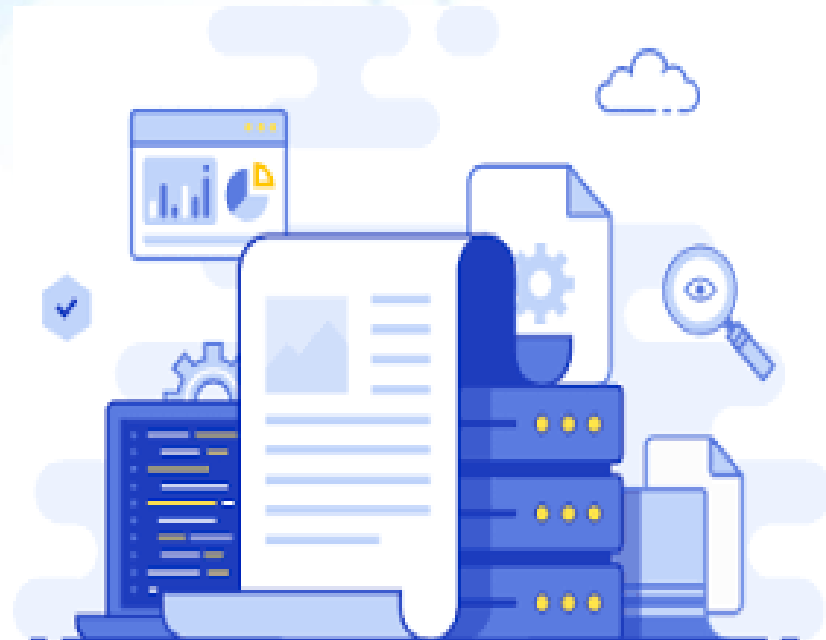
1. Dictionary Related To Checkpoint Information
2. Forcing System To Checkpoint
3. Instance Recovery
4. Managing Redo Log File
5. Multiplexing Redo Log Files
6. Database Dictionary Related To Redo Log File
7. Redo Log File Management
8. Changing Database To Archive Log Mode
9. Database Dictionary Related To Archive Log Files





EXPORT AND IMPORT TO MOVE DATA BETWEEN ORACLE DATABASES

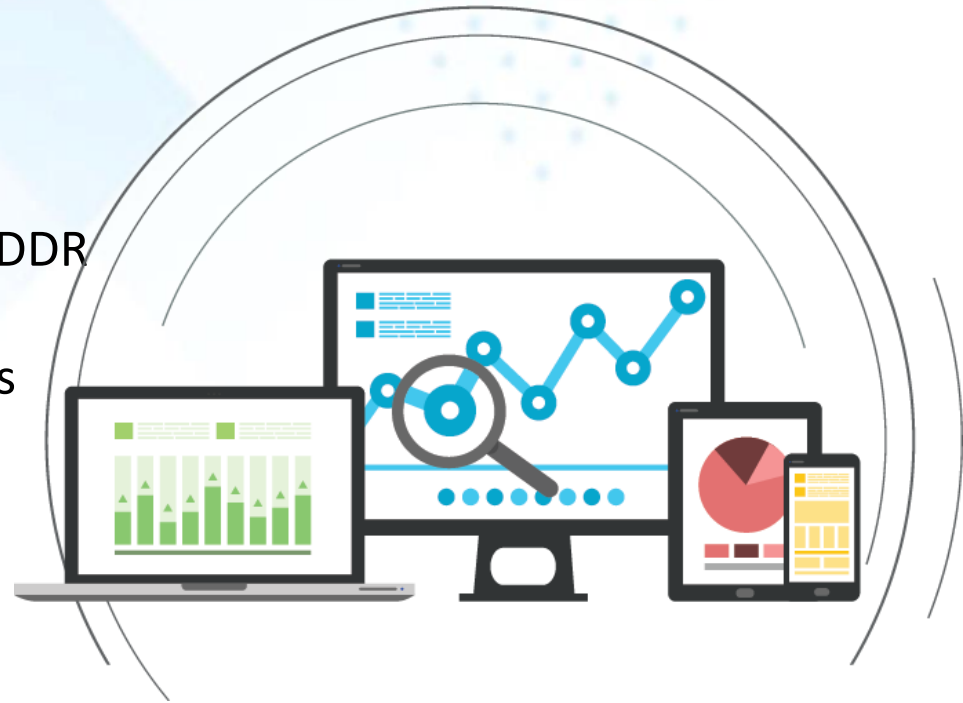
1. Parameters Used For Data Pump
2. Data Dictionary Related To Datapump
3. Export/ Import Data (Table, Rows, Tablespace, Full) Using Data Pump
4. Schema Refresh Using Data Pump
5. Same Using Export And Import Utility





DATA GUARD ARCHITECTURE

1. Data Guard
2. Services
3. Architecture
4. Sync Check13
5. Monitoring AWR And ADDR
6. Enabling And Disabling AWR And ADDR
7. When To User AWR And ADDR
8. Generating AWR And ADDR Reports





STATS PACK

1. Enabling Statspack
2. Generating Reports Using Statspack Basics Of OEM
3. Running OEM
4. Features Of OEM
5. Activating Features Using OEM Logging
6. Monitoring Log Files
7. (Alertsid.Log, Trace Files, Redologging, Debug File, Network Log Files And Other Log Files)





IDENTIFYING ISSUES AT DATABASE AND TROUBLESHOOTING THE ISSUES

1. Troubleshooting Snapshot Too Old Error
2. Troubleshooting Issues Related To Memory Structures,
3. Starup Failures, Stuck In Nomount, Mount Issues.
4. Troubleshooting Sid Not Connected, Tns Listener Issues
5. Troubleshooting Backup And Recovery Issues
6. Troubleshooting Issues Related To Table Spaces
7. Trouble Shooting Issues Related To Network Connectivity, Using TNSPING.





ORACLE 12C NEW FEATURES

1. Introduction To Multi Tenant Architecture
2. About The Multitenant Architecture
3. Pluggable Database
4. Benefits Of The Multitenant Architecture
5. Path To Database Consolidation
6. Container Database, Pluggable Database, Seed Database, Features And Differences





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THANKS