
ORACLE8i NETWORKING for DBA's

Duration: 2 days

Develop the advanced skill of networking to effectively administer an Oracle Server Database

Course Description:

This course provides students with the knowledge and hands-on experience needed to configure Oracle networking.

Participants will learn...

- Net8 Architecture
- Net8 Client and Server Configuration
- Names Resolution
- Multi-Threaded Server Architecture
- Net8 Failover and Load Balancing
- Advanced Security
- Net8 and the Internet

Who Needs to Attend:

Application Developers and Designers, Managers, Database Administrators, Systems Administrators, Network Managers and Technical Support Personnel

Prerequisites:

Oracle Foundation Classes, Oracle DBA I or equivalent experience

Course Content:

DUTIES OF THE DBA

OVERVIEW OF ORACLE NETWORK ARCHITECTURE

- Oracle Networking: A History
- Oracle Net8 Architecture
- Net8 Layers
- Net8 Communication Stacks
- Oracle Compatible Protocols

NAME RESOLUTION

- Local Naming
- Directory Naming
- Centralized Naming
- Host Naming

NET8 CLIENT CONFIGURATION

- Net8 Software Installation
- Client Connectivity
- TNSNAMES.ORA File
- TNSPING Utility
- Using the Connection String
- Using Connection Manager
- Using External Names

NET8 SERVER CONFIGURATION

- The NET8 Listener
- LISTENER.ORA File
- Configuring Multiple Protocols
- Listener Security

Tools

- Oracle Net8 Assistant
- Local Configuration
- Profile Configuration
- Service Naming Option
- Listener Configuration
- Naming Methods Configuration

MULTI-THREADED SERVER (MTS)

- MTS Architecture
- MTS Init.ora Configuration
- Using the MTS Server

ORACLE NAMES

- Names Server Redundancy
- Dynamic Names Server Discovery
- Setting Up Oracle Names
- Configuring the Listener
- Configuring Service Names
- Configuring the Oracle Names Server

CONNECTION MANAGER

- Configuring the Connection Manager
- Connection Manager Profile
- Multi-Protocol Interchange
- Connection Concentration
- CMAN.ORA File

NET8 FAILOVER AND LOAD BALANCING

- Failover
- Load Balancing

NET8 TROUBLESHOOTING

- Testing Client/Server Connectivity
- Examining Net8 Log Files

ADVANCED SECURITY OPTION

- Identifying Network Security Risks
- Solutions for Network Security
- Authentication Techniques

ORACLE NETWORKING AND THE INTERNET

- Web-Based Architecture
- Web/Application Server
- Development Tools

PL/SQL PACKAGES FOR THE DBA

- UTL_HTTP
- UTL_INADDR
- UTL_SMTP
- UTL_TCP

A DAY IN THE LIFE OF A DBA

Course Labs:

1. Configure Oracle Client
2. Configure Oracle Listener
3. Net8 Configuration
4. MTS Configuration
5. PL/SQL Packages