

ORACLE 11G DATA GUARD



CURRICULUM

» Introduction to Data Guard

- What is Oracle Data Guard
- MAA - Maximum Availability Architecture Configurations
 - Primary Database
 - Standby Database
 - Physical Standby Database
 - Logical Standby Database
 - Snapshot Standby Database
- Data Guard Services
 - Redo Transport Services
 - Apply Services
 - Role Transitions
- Data Guard Broker
- Protection Modes
- Logical SQL Apply
- Redo Transport
- Gap Detection and Resolution
- Benefits of Using Data Guard

» Creating a Physical Standby (SQL & RMAN)

- Preparing the Primary
- Force Logging
- Configuring Standby Redo Logs
 - Logfiles on the Standby
 - Standby Redo Logs
 - Using SQL to Create SRLs
- Initialization Parameters on Primary
- Redo Transport Mode
- Oracle Net for Physical Standby
- Creating a Listener Entry
- Copying the Primary's Password File
- Standby Init.ora File
- Directory Path on the Target
- Starting the Physical Standby
- Invoking RMAN
- Real-Time Apply
- Starting Redo Apply

» Data Guard Broker

- Data Guard Broker Components
- Broker Configuration
- Benefits of Using Data Guard Broker
- DGMRL Commands
- Configuration File
- Log Files
- Changing Properties
- Database Properties
- Disable Broker Management

» Configuring Data Protection Modes

- Data Protection Modes
 - Maximum Protection
 - Maximum Availability
 - Maximum Performance
 - Comparisons
- How to Set the Mode

» Monitoring a Data Guard Configuration

- Viewing Data Guard Status
- Data Guard Performance
 - Viewing Data Guard Performance
 - Viewing Log Files
 - Data Guard Metrics
 - Viewing Diagnostic Information
 - Destination Settings

» Optimizing a Data Guard Configuration

- Monitoring Performance
- Optimizing Redo Transport
- Optimizing Redo Transmissions
- MaxConnections Database Property
- RedoCompression Property
- Delaying the Application of Redo

» Performing Role Transitions

- Role Transitions
- Role Management Services
- Switchover
- Switchover Using DGMGRL
- Switchover Using Enterprise Manager
- Problems
- Failover

» Backup and Recovery Considerations

- RMAN in Data Guard
- Maximum Availability Architecture (MAA)
- Offload Backups to a Physical Standby
 - Usage
- RMAN Recovery Catalog
 - Create the Recovery Catalog
 - Register the Primary Database
- Persistent Configuration Settings
- RMAN Parameters for Primary
- RMAN Parameters for Standby

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