



MFE-IT

Reference: KB/EN/ODA

Oracle Data Guard Training Course

Ensure High Availability and Disaster Recovery

Duration: 3 Days | Hours: 21 h

Remote · Sessions guaranteed from 1 registrant · 60% hands-on practice

DESCRIPTION

In a context where service interruption can have major consequences, Oracle Data Guard is the benchmark solution for synchronous replication and automated disaster recovery. It maintains one or more standby databases perfectly synchronised with the primary, ensuring business continuity, regulatory RPO/RTO targets and read load balancing across critical deployments.

This training course will enable you to master the implementation, management and supervision of Data Guard while consolidating your Oracle administration skills. Through realistic failover scenarios and simulated incidents, you will leave with a tested DRP methodology applicable in banking, industry, public services and any high-criticality production environment.

LEARNING OBJECTIVES

By the end of this training course, participants will be able to:

- Understand the architecture and operation of Oracle Data Guard
- Deploy a Data Guard environment with primary and standby databases
- Manage replication, switchovers, failovers and protection modes
- Automate monitoring and alerts
- Test and document a disaster recovery plan (DRP)
- Resolve incidents related to synchronisation and performance

PREREQUISITES

- Proficiency in Oracle databases (administration level)
- Comfortable with Linux/Unix and command-line operations
- Knowledge of high availability and disaster recovery concepts (desirable)

Because each participant is unique, a personalised interview is systematically organised in advance with our expert to design a training programme perfectly aligned with their objectives, level and professional challenges.

TARGET AUDIENCE

DBAs and database administrators responsible for ensuring maximum availability of critical Oracle databases.

DETAILED PROGRAMME

The training alternates between theoretical input and hands-on practice (approximately 60% of the time). Modules are built around practical exercises based on real-world business use cases.

Module 1 – Oracle Data Guard Architecture

- Fundamental concepts: primary database, standby database
- Redo apply and log shipping mechanisms
- Protection modes: Maximum Availability, Performance, Protection

Module 2 – Implementation of a Data Guard Environment

- Configuration of a physical standby database
- Essential parameters: LOG_ARCHIVE_DEST_n, FAL_SERVER
- Network services and listener configuration

Module 3 – Administration and Supervision

- Redo apply and log management
- Dynamic views (V\$) for cluster state
- Monitoring tools and failover automation

Module 4 – Failover and Disaster Recovery

- Switchover and failover operations
- Post-crisis management and reinstating the failed primary
- DRP testing and documented procedures

Module 5 – Security and Best Practices

- Encrypted access and Transparent Data Encryption
- Auditing and privilege management
- Replication security and recommended production configuration

Module 6 – Optimisation and Troubleshooting

- Performance analysis on primary and standby
- Troubleshooting common errors and lag issues
- Replication tuning and real-life diagnostic cases

TEACHING METHODS

Format and Delivery

The training is delivered remotely via an interactive virtual classroom. It can also be delivered on-site, with content customised to match the needs of your professional project. The theory/practice split is approximately 40%/60%.

MFE-IT Ultra-Personalised Format

Each session accommodates between 1 and 3 participants, ensuring highly individualised support. A preliminary interview allows us to tailor the content to each participant's profile. Inter-company sessions are guaranteed from just 1 registrant (except in cases of force majeure).

Skills Assessment

Throughout the training, the trainer assesses participant progress through multiple-choice questions, role-playing exercises and hands-on work. At the end, a certificate of achievement is issued to each participant.

Post-Training Support

For one month following the training, each participant can contact MFE-IT trainers with questions about implementing acquired knowledge. A response is provided by email or telephone within 48 working hours.

Accessibility

MFE-IT is committed to welcoming people with disabilities. Contact: contact@mfe-it.com.

PRACTICAL INFORMATION

Trainer Resources

- Structured demonstrations aligned with the detailed programme
- Exercise briefs and solutions throughout the training
- A ready-to-use technical environment for practical workshops
- Trainer validation of acquired knowledge at the end of each workshop
- Digital reference documents

Certification and Validation

At the end of the training, a certificate is sent by email specifying the objectives, nature, duration and assessment results. A completion certificate can also be provided on request.

Benefits for Participants

- Train from your workplace or home, with no travel required
- Benefit from an expert trainer-consultant on the subject
- Enjoy an ultra-personalised format (1 to 3 participants)
- Continue training even in the event of unforeseen circumstances

Benefits for the Organisation

- Optimise the training budget by reducing travel and accommodation costs
- Offer quality training to all employees, regardless of location
- Reduce absence time linked to travel
- Support team upskilling in all contexts