



MySQL High Availability

- **Formato do curso:** Presencial
- **Preço:** 1350€
- **Nível:** Avançado
- **Duração:** 18 horas

This MySQL High Availability training is designed for experienced database administrators and system architects who want to analyze and form a basis of understanding different high availability options, including clustering and replication solutions within MySQL. You'll learn to use the tools required to decide which high availability solution is appropriate and how to implement a system with the correct design.

Students Who Can Benefit from this Course:

- Experienced database administrators and system architects

Objectivos

- Describe the implementation of MySQL replication
- Setup a basic master-slave replication environment
- Set up a master-master and circular replication system
- Monitor a MySQL replication setup
- Use MySQL replication for advanced tasks such as software upgrades to increase availability
- Analyze the design and limitations of MySQL cluster
- Setup a basic MySQL cluster instance
- Analyze how it is possible to setup MySQL with a shared-disk cluster solution
- Understand different shared-disk cluster setups depending upon operating system choices, such as LVM, Windows Cluster Agent, Veritas Cluster Agent, etc
- Understand the differences with third-party clustering solutions, such as DRBD or m/cluster
- Explore the impact of different backup solutions on highly available solutions
- Identify the effects of different maintenance tasks and how to maintain high availability while performing these operations
- Describe the future development path of the different solutions
- Develop a plan to implement the appropriate high availability solution
- Analyze the performance impact of a high availability decision
- Recognize the business decision side of the solutions, such as cost and risk

Programa

Introduction

- MySQL Overview
- MySQL Products and Services
- Community Vs. Enterprise
- Supported Operating Systems
- MySQL Certification Program and Training Curriculum Paths
- MySQL Website
- Installing MySQL
- Installing the world database

Introduction to MySQL High Availability

- What is HA?
- Terminology Overview
- Third Party Software
- Heartbeat

MySQL Replication

- Basic Architecture
- Binary Logging
- Replication threads and files
- Setting up MySQL Replication
- Monitoring MySQL Replication
- Advantages and Disadvantages of MySQL Replication
- Advanced Replication Topologies
- Replication Optimization

MySQL Cluster

- Architecture
- Setup of MySQL Cluster
- Managing the Cluster
- Cluster Asynchronous Replication
- Cluster Pros and Cons

Shared Disk Clustering

- Shared Disk Clustering
- Active-Passive Setups
- Active-Active Clustering
- Usage Cases

Other Clustering

- Product architecture of Continuent Uni/Cluster?
- Distributed Replicated Block Device (DRBD)
- DRDB and Heartbeat
- Other DRBD Benefits

- Additional Resources

System Maintenance Impacts

- Introduction
- Backups
- Table Reorganization
- Schema Alterations
- Index Optimizations
- Conclusions

HA Conclusions

- Overview of Availability Tools
- Combinations

Conclusion

- Course Overview
- MySQL System Overview
- Training and Certification Website
- Course Evaluation
- Thank You!
- QA Session