Course : MariaDB, administration

Practical course - 3d - 21h00 - Ref. RIF
Price : 1740 € E.T.

4,1 / 5

This course will enable you to master all the tasks involved in administering a MariaDB database server. You'll see how to install the server, configure it, create users, manage access rights, implement transactions, perform backups/restores and manage production.

Teaching objectives

At the end of the training, the participant will be able to:

- Installing a MariaDB database server on Linux/Windows
- Create a table definition
- All table types
- Complete post-installation security
- Managing security with MariaDB

Intended audience

System administrators and database administrators.

Prerequisites

Knowledge of SQL required, or knowledge equivalent to that acquired in the course "SQL for MySQL" (Ref. MYP).

Course schedule

1 MariaDB introduction and installation

- Versions and license types.
- MariaDB tools (client and administration).
- Server setup: configuration files and parameters.
- Start/Stop.
- Facilities (binary, from sources).

Hands-on work

Install MariaDB on Linux/Windows and use client and administration tools.

PARTICIPANTS

System administrators and database administrators.

PREREQUISITES

Knowledge of SQL required, or knowledge equivalent to that acquired in the course "SQL for MySQL" (Ref. MYP).

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.
Participants also complete a placement test before and after the course to measure the skills they've developed.

2 MariaDB database objects

- Table types (MyISAM/Aria, XtraDB/InnoDB, FederatedX, Cassandra, SphinxSE, HandlerSocket...).
- Modification of table definition.
- Index and view management.
- Base information_schema and performance_schema.

Hands-on work

Create and use views. Create and modify table definitions. Create indexes. Use catalog databases.

3 Connections, access rights, security

- User authentication.
- MariaDB system databases and their contents.
- Manage users and their privileges.
- Rights to views and stored processes.
- Using SSL.

Hands-on work

Complete post-installation security. Create MariaDB accounts. MariaDB security management.

4 Storage engines and plug-ins

- Engines: MyISAM/Aria, XtraDB/InnoDB, Memory, Archive CSV, FederatedX, Blackhole, CassandraSE, SphinxSE, HandlerSocket.
- XtraDB/InnoDB architecture and configuration.
- Transactional operation of the XtraDB/InnoDB engine.
- Locking tables.
- MyISAM/Aria query cache and index cache.

Hands-on work

Change XtraDB/InnoDB settings. Implementation of transactions.

5 MariaDB server maintenance

- Session status (variables, command "show status"), forced session termination.
- Loading : LOAD DATA, myimport, SELECT INTO OUTFILE, MySQLdump.
- Logs (general, errors, slow queries, etc.).
- Backup strategies.
- Backup methods and tools available.
- Incremental backup and recovery.
- Statistics update and defragmentation.

Hands-on work

Log activation. Load/unload tools. Backups and restores with "MySQLdump". Using binary logs. Incremental backup. Incremental recovery.

TEACHING AIDS AND TECHNICAL RESOURCES

• The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
• At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
• A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

Dates and locations

REMOTE CLASS
2026 : 24 June, 23 Sep.

PARIS LA DÉFENSE
2026 : 24 June, 23 Sep.