

# TRAINING COURSE: MARIADB CLUSTER

This course covers everything a DBA needs to know to set up and run MariaDB Cluster, a highly available, synchronous, multi-master cluster that uses Galera technology. Students learn the basics of the MariaDB Cluster architecture and functionality, as well as more advanced techniques for configuring and administering MariaDB Cluster.

## COURSE HIGHLIGHTS

Students will learn a wide range of skills for administering MariaDB Cluster, including the following:

- Understand concepts such as cluster replication
- Describe common cluster topologies
- Explain the architecture of MariaDB Cluster
- Install and configure a basic MariaDB Cluster
- Plan and perform an upgrade of MariaDB Cluster
- Understand how to migrate standalone or replication topologies to MariaDB Cluster
- Perform backup and restore operations using MariaDB Backup
- Secure MariaDB Cluster
- Use key performance indicators (KPIs) to monitor and improve MariaDB Cluster performance
- Diagnose and troubleshoot common MariaDB Cluster problems
- Understand how to load balance MariaDB Cluster using MariaDB MaxScale
- Know how to manage factors such as split brain, consistent reads, the `AUTO_INCREMENT` attribute, slow nodes, and parallel replication
- Use best practices to perform schema upgrades
- Explain how state snapshot transfers (SSTs) and incremental state transfers (ISTs) work in MariaDB Cluster
- Describe the features of geo-replication
- Set up advanced features such as MariaDB Cluster Notifications and Arbitrator
- Explain how and when to use other advanced features, such as multicasting, multiple clusters, and WAN replication

**Formats:** In-person course or live virtual course

**Length:** 2 days (6.5-hour sessions)

### Prerequisites:

- Completion of the MariaDB Standard DBA course or relevant working experience as a MariaDB database administrator
- Working knowledge of database concepts
- Working knowledge of UNIX/Linux command-prompt usage
- Basic knowledge of computer networking

### Recommendations:

- Linux administration skills
- MariaDB server configuration and usage experience
- Familiarity with AWS VMs
- Familiarity with VirtualBox

## LIVE LEARNING: ONLINE AND ON-SITE

MariaDB offers flexible training options so your team can learn the way that works best for them: online or on-site. The most popular option is the virtual classroom, where the course is delivered in a live virtual setting using technology such as Zoom. An instructor will speak during the class through an audio feed and will share screens on their computer, including a slide presentation and a terminal window. Students can interact with the instructor and other students via a text-chat interface and through their audio feeds. A copy of the slide presentation and lab exercises workbook will be provided so students may annotate them during class.

## READY TO START LEARNING?

[Register now](#) or [contact us to schedule an in-person class](#).

## [mariadb.com](https://mariadb.com)

Americas: [sales-AMER@mariadb.com](mailto:sales-AMER@mariadb.com)  
Europe, Middle East, Africa: [sales-EMEA@mariadb.com](mailto:sales-EMEA@mariadb.com)  
Asia Pacific: [sales-APAC@mariadb.com](mailto:sales-APAC@mariadb.com)

© Copyright 2020 MariaDB Corporation Ab, Tekniikantie 12, 02150 Espoo, Finland. MariaDB is a trademark or registered trademark of MariaDB Corporation.