

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, which uses technology such as Zoom. An instructor will speak 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](#).

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