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

**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.