

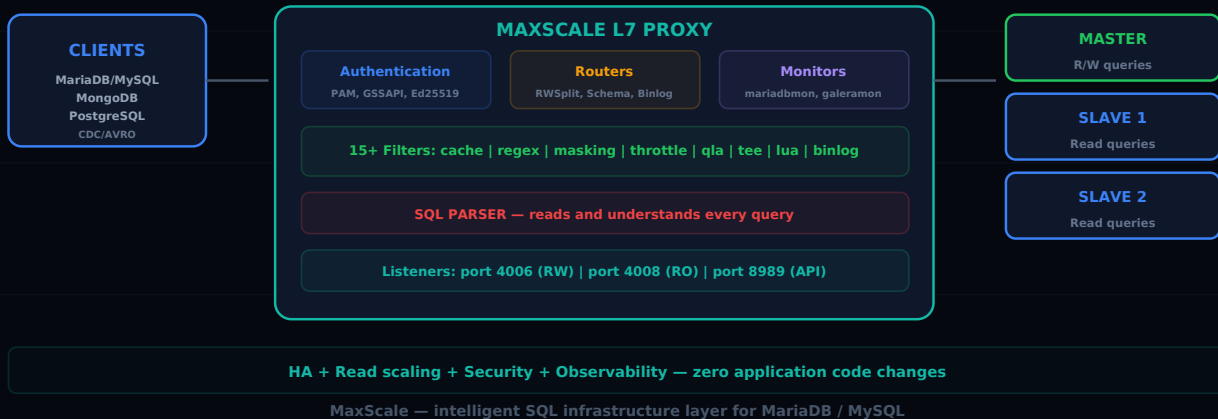
# MaxScale **SQL**

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MAXSCALE MARIADB PROXY ARCHITECTURE

## MAXSCALE — L7 SQL PROXY ARCHITECTURE

Protocols + Monitors + Routers + Filters — much more than a load balancer



## Introduction

MaxScale is a high-availability, multi-protocol proxy for MySQL and MariaDB. It is built on top of HAProxy and provides a layer of abstraction between the client and the database. MaxScale can be configured to act as a load balancer, a failover proxy, or a read replica proxy. It supports various authentication methods and provides a rich set of filters for query processing.

## Architecture

MaxScale architecture consists of several components:

- **MariaDBAuth** for MariaDB / MySQL authentication
- **PAM** for PAM, LDAP, Active Directory authentication
- **GSSAPI/Kerberos** for Windows / Active Directory SSO
- **Ed25519** for MariaDB authentication

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## SQL Proxy

MaxScale SQL Proxy is a high-availability, multi-protocol proxy for MySQL and MariaDB.



## binlogrouter

MaxScale 1.5.1 MaxScale 1.5.1 MaxScale 1.5.1 binlog 1.5.1

## kafkarouter CDC

binlog 1.5.1 Apache Kafka 1.5.1 Kafka 1.5.1

## 15

SQL 1.5.1 MaxScale 1.5.1 15

- **qlafilter**
- **regexfilter**
- **cache**
- **throttlefilter**
- **masking**
- **topfilter**
- **commentfilter** SQL
- **tee**
- **namedserverfilter**
- **hintfilter** SQL
- **luafilter** Lua
- **binlogfilter** schema binlog

## Docker Kubernetes

MaxScale Docker

```
docker run -d --name maxscale \
-v /path/to/maxscale.cnf:/etc/maxscale.cnf \
-p 4006:4006 -p 8989:8989 \
mariadb/maxscale:latest
```

Kubernetes MaxScale StatefulSet Deployment REST API

