

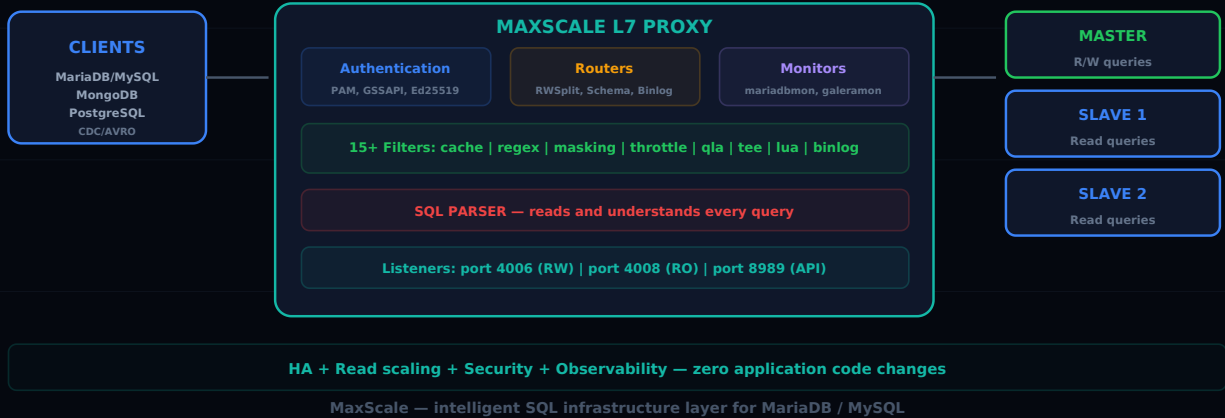
# MaxScale **SQL**

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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, high-performance, and highly-secure SQL proxy. It is designed to be a drop-in replacement for HAProxy, but with a focus on SQL. MaxScale is a L7 proxy, meaning it can understand the SQL protocol and perform intelligent routing and filtering. MaxScale is a L7 proxy, meaning it can understand the SQL protocol and perform intelligent routing and filtering.

## Architecture

MaxScale is a L7 proxy, meaning it can understand the SQL protocol and perform intelligent routing and filtering.

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

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## SQL

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## binlogrouter

MaxScale 1.4.10 MaxScale 1.4.10 MaxScale 1.4.10 binlog 1.4.10

## kafkarouter CDC

binlog 1.4.10 Apache Kafka 1.4.10 Kafka 1.4.10

## 15

SQL MaxScale 1.4.10 15

- **qlfilter**
- **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

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MaxScale 反向代理

- 反向代理
- 负载均衡
- SQL 代理
- REST API 代理
- 代理

MaxScale 代理 MariaDB / MySQL

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