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## MaxScale Release Notes

### 1.1 GA

This document details the changes in version 1.1 since the release of the 1.0.5 GA Release of the MaxScale product.

### New Features

#### High Performance Binlog Relay

Replicate Binlog from the master to slave through MaxScale as simplified relay server for reduced network load and disaster recovery

## **Database Firewall Filter**

Block queries based on columns in the query, where condition, query type(select, insert, delete, update), presence of wildcard in column selection, regular expression match and time of the query

## **Schema Sharding Router**

Route to databases sharded by schema without application level knowledge of shard configuration

## **Hint based routing**

Pass hints in the SQL statement to influence the routing decision based on replication lag or time out

## **Named Server Routing**

Routing to a named server if incoming query matches a regular expression

## **Canonical Query logging**

Convert incoming queries to canonical form and push the query and response into RabbitMQ Broker for a RabbitMQ Client to later retrieve from

## **Nagios Plugin**

Plugin scripts for monitoring MaxScale status and performance from a Nagios Server

## **Notification Service**

Receive notification of security update and patches tailored to your MaxScale configuration

## **MySQL NDB cluster support**

Connection based routing to MySQL NDB clusters

## **Updated installation path**

MaxScale is now installed into `/usr/local/mariadb-maxscale`

## Bug Fixes

A number of bug fixes have been applied between the 1.0.5 GA and this GA release. The table below lists the bugs that have been resolved. The details for each of these may be found in <https://mariadb.atlassian.net/projects/MXS> or in the former <http://bugs.mariadb.com> Bug database

ID

Summary

MXS-80

“show sessions” can crash MaxScale

MXS-79

schemarouter hangs if client connects with empty database

MXS-78

“USE” statement gives unpredictable/unexpected results

MXS-76

core/dbusers.c needs better error messages

MXS-74

Crash when no arguments given to on\_queries clause

MXS-72

dbfwfilter on\_queries clause appears to be ignored

MXS-71

dbfwfilter at\_times clause seems to erroneously block user

MXS-68

Wrong rule name in dbfwfilter leads to MaxScale crash

MXS-65

Omitting in users directive causes crash in libdbfwfilter.so(link\_rules)

MXS-63

Maxkeys and Maxpasswd log to /tmp

MXS-57

MaxScale should write a message to the error log when config is not found

MXS-54

Write failed auth attempt to trace log

MXS-50

Removing 1.0.5 RPM gives error about /etc/ld.so.conf.d/maxscale.conf

MXS-47

Session freeze when small tail packet

MXS-5

Possible memory leak in readwritesplit router

736

Memory leak while doing read/write splitting

733

Init-script deletes bin/maxscale

732

Build is broken: CentOS/RHEL 5 and SLES 11

730

Regex filter and shorter than original replacement queries MaxScale

729

PDO prepared statements bug introduced in Maxscale 1.0.5

721

Documentation suggests SIGTERM to re-read config file

716

```
$this->getReadConnection()->query('SET @id = 0;');
```

709

“COPYRIGHT LICENSE README SETUP” files go to /usr/local/mariadb-maxscale/ after ‘make package’

704

“make testall” returns success status (exit code 0) even on failures

698

Using invalid parameter in many maxadmin commands causes MaxScale to fail

693

Freeing tee filter’s orphaned sessions causes a segfault when embedded server closes

690

CPU/architecture is hardcoded into debian/rules

686

TestService fails because of the modules used in it aren’t meant for actual use

677

Race condition in tee filter clientReply

676

“Write to backend failed. Session closed.” when changing default database via readwritesplit with max\_slave\_connections != 100%

673

MaxScale crashes if “Users table data” is empty and “show dbusers” is executed in maxadmin

670

Tee filter: statement router loses statements when other router gets enough ahead

665

Core: accessing freed memory when session is closed

659

MaxScale doesn't shutdown if none of the configured services start

648

use database is sent forever with tee filter to a readwrite split service

620

enable\_root\_user=true generates errors to error log

612

Service was started although no users could be loaded from database

600

RWSplit: if session command fails in some backend, it is not dropped from routing session

587

Hint filter don't work if listed before regex filter in configuration file

579

serviceStartProtocol test crashes

506

Don't write to shm/tmpfs by default without telling and without a way to override it

503

TOC in the bundled PDFs doesn't link to actual sections

457

Please provide a list of build dependencies for building MaxScale

361

file\_exists() *modifies* the file it checks for???

338

Log manager spread down feature is disabled

159

Memory leak. Dbusers are loaded into memory but not unloaded

## Known Issues

There are a number bugs and known limitations within this version of MaxScale, the most serious of this are listed below.

- The Read/Write Splitter is a little too strict when it receives errors from slave servers during execution of session commands. This can result in sessions being terminated in situation in which MaxScale could recover without terminating the sessions.
- MaxScale can not manage authentication that uses wildcard matching in hostnames in the mysql.user table of the backend database. The only wildcards that can be used are in IP address entries.
- When users have different passwords based on the host from which they connect MaxScale is unable to determine which password it should use to connect to the backend database. This results in failed connections and unusable usernames in MaxScale.
- Service init script is missing after upgrade from 1.0 in RPM-based system. Can be fixed by reinstalling the package ('yum reinstall maxscale' or 'rpm -i -force /maxscale-1.1.rpm')
- Binlog Router Plugin is compatible with MySQL 5.6  
Binlog Router Plugin currently does not work for MariaDB 5.5 and MariaDB 10.0
- LONGBLOG are currently not supported.
- Galera Cluster variables, such as @@wsrep\_node\_name, are not resolved by the embedded MariaDB parser.
- The Database Firewall filter does not support multi-statements. Using them will result in an error being sent to the client.

## Packaging

Both RPM and Debian packages are available for MaxScale in addition to the tar based releases previously distributed we now provide

- CentOS/RedHat 5

- CentOS/RedHat 6
- CentOS/RedHat 7
- Debian 6
- Debian 7
- Ubuntu 12.04 LTS
- Ubuntu 13.10
- Ubuntu 14.04 LTS
- Fedora 19
- Fedora 20
- OpenSUSE 13
- SuSE Linux Enterprise 11
- SuSE Linux Enterprise 12