



The State of ProxySQL

2020 Edition, By Rene Cannao



ProxySQL LLC

We provide services to help build, support as well as improve the performance & reliability of your Cloud-Based or On-Premise MySQL infrastructure:

- ProxySQL Support Services
- DBRE & Consulting
- ProxySQL Development
- ProxySQL Training (*next training on 18-19 November*)



We're hiring!!!

- Experience coding in C/C++?
- MySQL DBA / Development?
- DevOps / Automation?
- Working remotely?

Join Team
ProxySQL!!



Companies using ProxySQL



Agenda

- Quick summary of new features in 2019
- Performance enhancements
- REST API
- New features in ProxySQL 2.0 (2020 edition)
- New features in ProxySQL 2.1
- Prometheus exporter
- Enterprise Web UI



Not so new features

Pre-2020

The State of ProxySQL, 2019 edition

- Performance Enhancements
- GTID Causal Reads
- Native Galera Support
- Percona XtraDB Cluster “pxc_maint_mode”
- Amazon Aurora Features
- LDAP Integration
- SSL, Audit Log & Security



The State of ProxySQL, 2019 edition

- General log JSON format
- JSON Support in Admin
- Firewall whitelist
- SQL injection detection
- MySQL 8



Performance Enhancements

What's been done to make ProxySQL 2.0 faster than ever before?



Upgraded Dependencies in 2.1

Several of the core dependencies have been upgraded, including:

- MariaDB Connector C upgraded to 3.1.9
- RE2 upgraded to 2020-07
- PCRE upgraded to 8.44
- OpenSSL upgraded to 1.1.1g
- SQLite upgraded to 3.19.2



Performance Improvements

- Numerous code changes to improve performance
- Extensive code refactoring in 2.1



Memory Optimizations

- Automatic **VACUUM** of **stats** schema
- When the new global variable **mysql-query_digests_normalize_digest_text** is enabled, queries statistics store **digest_text** on a different hash table. This drastically reduces memory usage on setups with many schemas but similar queries patterns
- Improved memory usage in jemalloc 5.2.0
- Table **mysql_query_rules_fast_routing** allows fast routing lookup without username



REST API

Expose REST API services through ProxySQL



What is REST API ?

It allows to create REST API endpoints and execute binaries/scripts:

- ProxySQL listens on a new HTTPS port
- Client connects to a URI
- Client can pass arguments (optional) as needed
- ProxySQL will executed predefined script and returns the result to the client

For example:

http://proxysql01.example.com:6070/sync/export_users



Enable REST API

```
Admin> SELECT * FROM global_variables WHERE variable_name LIKE '%rest%';
```

```
+-----+-----+  
| variable_name          | variable_value |  
+-----+-----+  
| admin-restapi_enabled | false          |  
| admin-restapi_port    | 6070           |  
+-----+-----+
```

```
2 rows in set (0.00 sec)
```



Table restapi_routes

```
Admin> SHOW CREATE TABLE restapi_routes\G
```

```
***** 1. row *****
```

```
table: restapi_routes
```

```
Create Table: CREATE TABLE restapi_routes (
```

```
id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,
```

```
active INT CHECK (active IN (0,1)) NOT NULL DEFAULT 1,
```

```
interval_ms INTEGER CHECK (interval_ms>=100 AND interval_ms<=100000000) NOT NULL,
```

```
method VARCHAR NOT NULL CHECK (UPPER(method) IN ('GET','POST')),
```

```
uri VARCHAR NOT NULL,
```

```
script VARCHAR NOT NULL,
```

```
comment VARCHAR NOT NULL DEFAULT '' )
```



Example of REST API

```
Admin> INSERT INTO restapi_routes
      (active, interval_ms, method, uri, script, comment) VALUES
      (1,1000,'POST','export_users','./scripts/export_users.py','comm');
Query OK, 1 row affected (0.00 sec)
```

```
$ curl -X POST -d '{"db":{"user":"root", "password":"a", "port":"3306",
"host":"127.0.0.1"},"admin":{"user":"admin", "password":"admin", "port":"66
032", "host":"127.0.0.1"}}' http://127.0.0.1:6070/sync/export_users
{"params":{"db":{"user":"root", "password":"a", "port":"3306",
"host":"127.0.0.1"},"admin":{"user":"admin", "password":"admin", "port":"66
032", "host":"127.0.0.1"}}}, "result":{"num_records":"8"}}
```



Other new features in 2.0

There is always more...



ProxySQL 2.0.11

Performance improvement and memory optimization:

- **--idle-threads** enabled by default
 - Scale to tens of thousands of connections
 - Better CPU utilization
- Table **mysql_query_rules_fast_routing** allows fast routing lookup without username
 - Smaller memory footprint
 - Easier to configure



SSL - new features

- OpenSSL upgraded to latest versions for increased security

Since 2.0.11 :

- Implemented the loading of intermediate certificate chain
- Clients can connect using VERIFY_CA



ProxySQL 2.0.13

- Support for SAVEPOINT
 - Previously not supported
- Annotation **`/* create_new_connection=1 */`**
 - It forces ProxySQL to create a new backend connection for the given query



ProxySQL 2.0.14

- Compile on FreeBSD and MacOS
- Implemented client connection timeout with **mysql-connect_timeout_client**
- Implemented variable **mysql-monitor_replication_lag_count** to reduce flipping server status in case of spike in replication lag
- Added packages for Ubuntu 20
- All new Linux versions have support for ClickHouse by default



ProxySQL 2.0.15

- Better control of transaction timeouts:
 - **mysql-max_transaction_time**
 - **mysql-max_transaction_idle_time**



New features in 2.1

New Cluster features in 2.1

- Cluster communication now uses SSL
- Clustering is allowed only between nodes of the same version
 - If the ProxySQL version doesn't match nodes won't communicate
- Variables synchronization
 - **admin-** and **mysql-** variables can now be replicated
- Synchronization of more tables:
 - **mysql_aws_aurora_hostgroups**
 - **mysql_galera_hostgroups**
 - **mysql_group_replication_hostgroups**



stats_mysql_query_digest (1/2)

- Decimals are replaced with a single question mark:
 - Ex: 123.45 : ? instead of ??
- Support scientific notation:
 - Ex: 1.23e4 : ? instead of ?.?e?
- Remove unnecessary spaces around arithmetic operators:
 - Ex: 1+2 vs 1 + 2 vs 1+ 2 vs 1 +2



stats_mysql_query_digest (2/2)

Group queries with a long list of parameters:

- ... WHERE id IN (?, ?, ?, ...)

Variable `mysql-query_digests_grouping_limit`

- Maximum number of parameters to show
- Default is 3



SQLite plugin

SQLite is now loaded as a replaceable module.

Two versions available:

- Built-in, loaded by default
- Plugin, to provide extra capabilities (ex: encryption at rest)



PROXYSQL SHUTDOWN SLOW

Several administrative commands exist:

- **PROXYSQL [STOP|START|PAUSE]** : related to MySQL module
- **PROXYSQL KILL**
- **PROXYSQL SHUTDOWN**

Added in 2.1:

- **PROXYSQL SHUTDOWN SLOW**



Prometheus Exporter

ProxySQL statistics and insights now available for the Titan god of fire...



Prometheus exporter

- Easy configuration - no additional tools to deploy
- Metrics are computed in ProxySQL in real time
- Prometheus Server should be configured with 5s or greater scrape interval

```
# A scrape configuration containing exactly one endpoint to scrape:
scrape_configs:
  # The job name is added as a label `job=<job_name>` to any timeseries scraped from this config.

  - job_name: 'proxysql'
    scrape_interval: 5s

  static_configs:
    - targets: ['192.168.1.28:6070']
```



Prometheus exporter

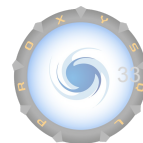
← → ↻ ⚠ Not Secure | 192.168.1.28:6070/metrics

```
# HELP proxysql_servers_table_version_total Number of times the "servers_table" have been modified.
# TYPE proxysql_servers_table_version_total counter
proxysql_servers_table_version_total 1.000000
# HELP proxysql_server_connections_total Total number of server connections (created|delayed|aborted).
# TYPE proxysql_server_connections_total counter
proxysql_server_connections_total{status="aborted"} 0.000000
proxysql_server_connections_total{status="delayed"} 0.000000
proxysql_server_connections_total{status="created"} 282338.000000
# HELP proxysql_client_connections_total Total number of client connections created.
# TYPE proxysql_client_connections_total counter
proxysql_client_connections_total{status="aborted"} 0.000000
proxysql_client_connections_total{status="created"} 220854.000000
# HELP proxysql_com_autocommit_total Total queries autocommitted.
# TYPE proxysql_com_autocommit_total counter
proxysql_com_autocommit_total 0.000000
# HELP proxysql_com_autocommit_filtered_total Total queries filtered autocommit.
# TYPE proxysql_com_autocommit_filtered_total counter
```

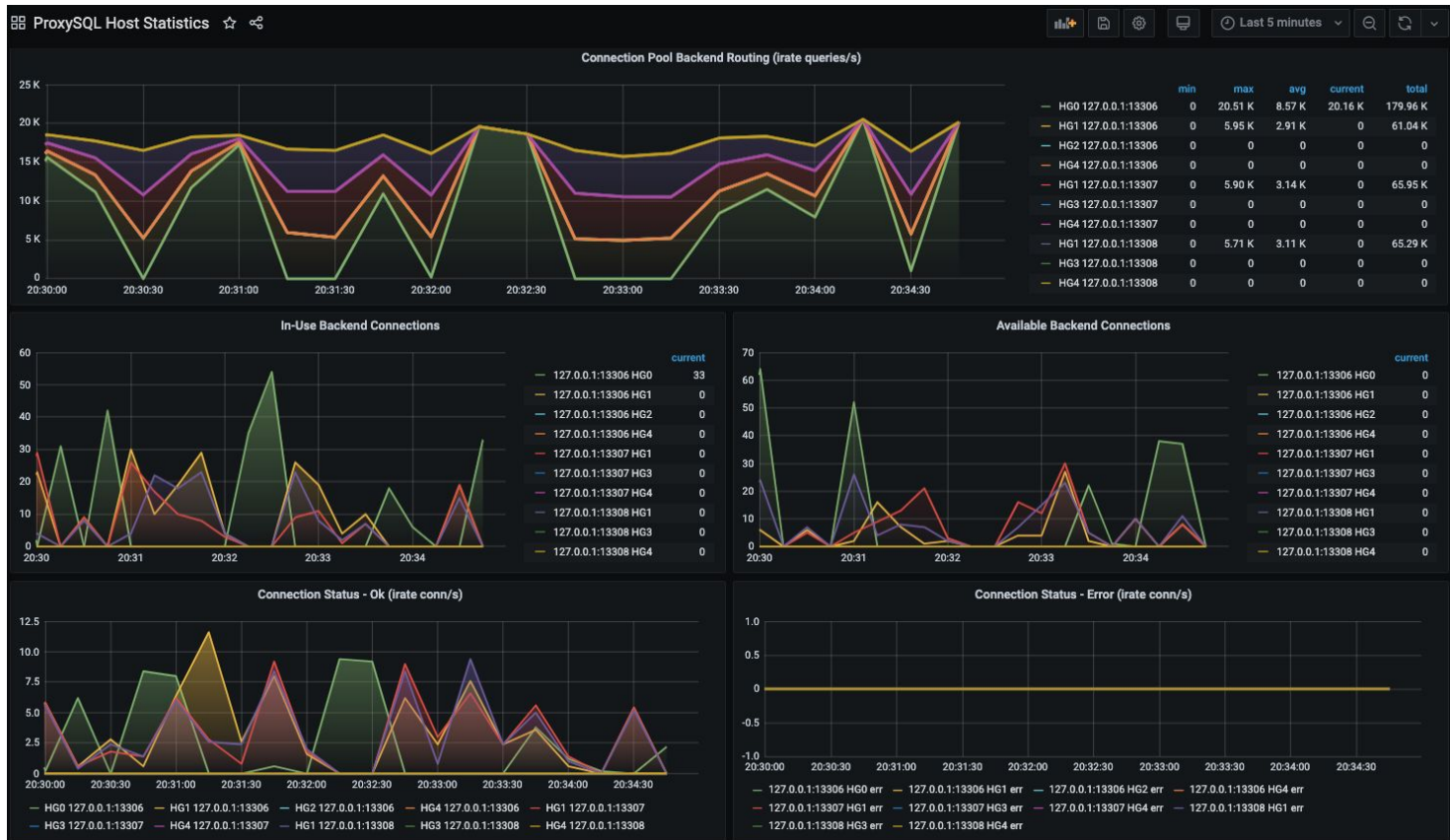
Build for performance!!



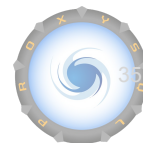
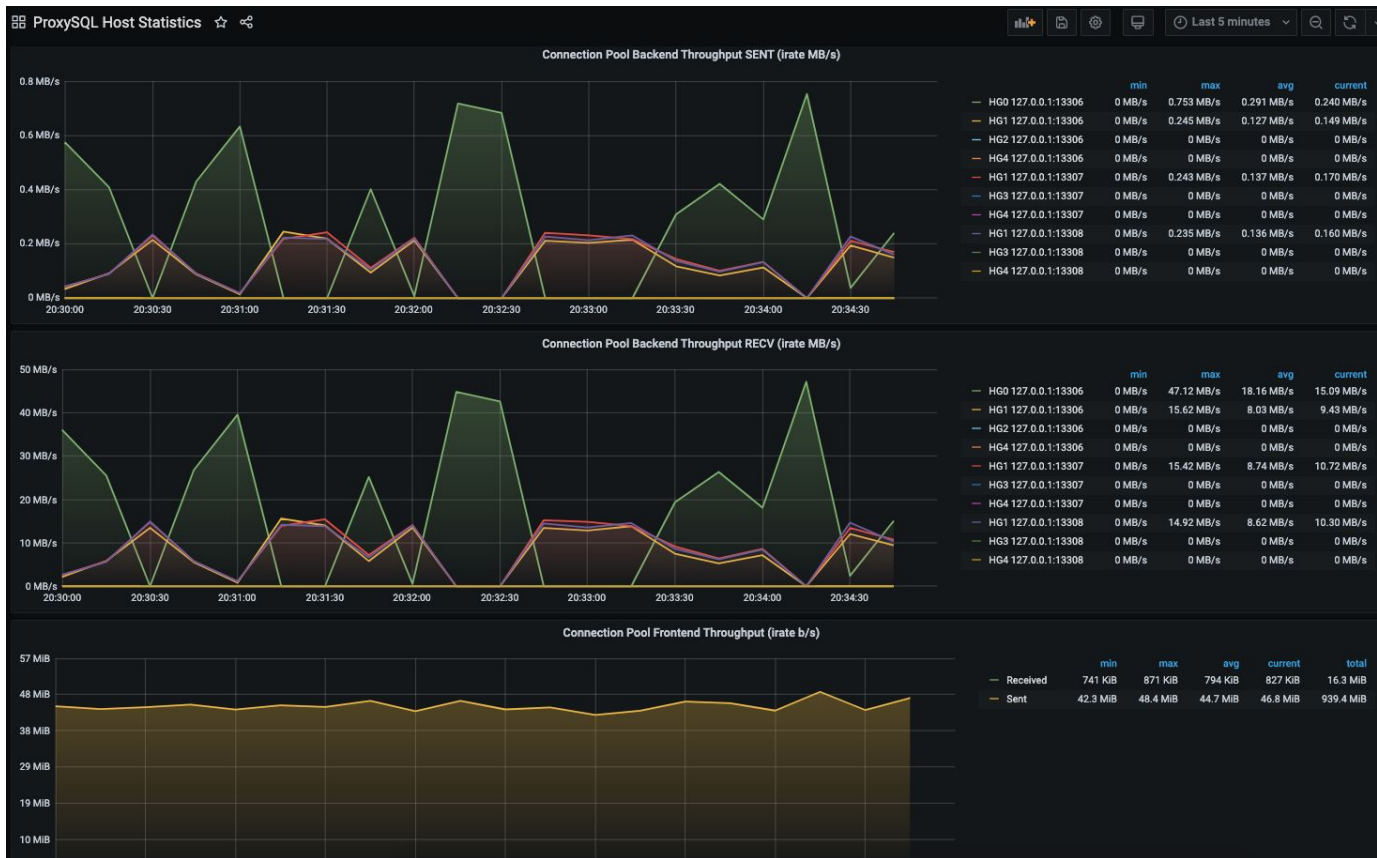
Grafana Dashboards



Grafana Dashboards



Grafana Dashboards



Enterprise Web UI



Enterprise Web UI

- Easy to use and powerful Web UI
- It allows to check status
- It enhances management
- Configuration becomes easier
- Implemented as a plugin available for enterprise subscribers



Enterprise Web UI

Dashboard Managing: <https://localhost:6080> Current **v2.1.0-418-g59696118_DEBUG** Latest **v2.0.14-70-g7b02b19c** [Logout](#)

Dashboard

30min 1h 2h 8h 1day

CPU Usage

30min 1h 2h 8h 1day + x

Memory consumption

30min 1h 2h 8h 1day + x

Connections

30min 1h 2h 8h 1day - x

Time	Client Connections created	Server Connections connected	Server Connections aborted
2020-9-14 14:11:40	0	0	0
2020-9-14 14:20:0	0	0	0
2020-9-14 14:28:20	200	120	100
2020-9-14 14:28:20	200	120	100

- Client Connections connected
- Client Connections aborted
- Client Connections created
- Server Connections connected
- Server Connections aborted
- Server Connections created

Connection Pool

30min 1h 2h 8h 1day - x

Time	ConnPool immediate
2020-9-14 14:11:40	0
2020-9-14 14:20:0	0
2020-9-14 14:28:20	80000
2020-9-14 14:28:20	280000

- ConnPool immediate
- ConnPool failure
- ConnPool success
- Questions
- Slow Queries
- GTID Consistent Queries



Enterprise Web UI

ProxySQL

Dashboard Managing: <https://localhost:6080> Current: [v2.1.0-418-g59696118_DEBUG](#) Latest: [v2.0.14-70-g7b02b19c](#) [Logout](#)

Dashboard

30min 1h 2h 8h 1day

CPU Usage

30min 1h 2h 8h 1day

Time	ucpu_time	scpu_time
2020-9-14 13:53:20	0.0008	0.0002
2020-9-14 13:58:20	0.0015	0.0005
2020-9-14 14:03:20	0.0020	0.0003
2020-9-14 14:08:20	0.0018	0.0006
2020-9-14 14:13:20	0.0065	0.0002

Memory consumption

30min 1h 2h 8h 1day

Metric	Value
resident	~60,000,000
retained	~25,000,000
allocated	~15,000,000
mapped	~5,000,000
metadata	~5,000,000

Connections

30min 1h 2h 8h 1day

Connection Pool

30min 1h 2h 8h 1day

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Enterprise Web UI

- ProxySQL
- Dashboard
- Configuration
- MySQL Users**
- MySQL Servers
- MySQL Replication Hostgroups
- MySQL Group Replication Hostgroups
- MySQL Galera Hostgroups
- MySQL AWS Aurora Hostgroups
- MySQL Query Rules
- MySQL Firewall Whitelist User
- MySQL Firewall Whitelist SqlI Fingerprint
- MySQL Firewall

Dashboard Managing: <https://localhost:6080>

Current **v2.1.0-418-g59696118_DEBUG** Latest **v2.0.14-70-g7b02b19c** [Logout](#)

MySQL Users

[Dashboard](#) / [MySQL Users](#)

Show data from **Main** Runtime Disk

[New User](#)

Commands ▾

[Export](#)

Column Visibility

Search: Show **10** entries

Active	User	Password	Default Schema	Comment	Max. Connections	Default Hostgroup	Fast Forward	Transaction Persistent	Use SSL
<input checked="" type="checkbox"/>	root	root	(null)		10000	0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	user	user	(null)		10000	0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	sbtest1	sbtest1	(null)		10000	0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Showing 1 to 3 of 3 entries

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Enterprise Web UI

The screenshot displays the ProxySQL Enterprise Web UI. On the left is a dark sidebar with navigation options: Dashboard, Configuration, MySQL Users, MySQL Servers (selected), MySQL Replication Hostgroups, MySQL Group Replication Hostgroups, MySQL Galera Hostgroups, MySQL AWS Aurora Hostgroups, MySQL Query Rules, MySQL Firewall Whitelist User, MySQL Firewall Whitelist Sqli Fingerprint, MySQL Firewall Whitelist Rules, MySQL Query Rules Fast Routing, and Stats. The main content area shows the 'MySQL Servers' page for the instance 'https://localhost:6080'. It includes a 'Show data from' dropdown set to 'Main', a 'New Server' button, a 'Commands' dropdown, and an 'Export' button. A search bar and 'Show 10 entries' are present. A table lists four MySQL servers with columns for Hostgroup Id, Hostname, Port, Status, Compression, Comment, GTID Port, Max. connections, Max. Latency, Max. Replication Lag, and Use SSL. The table shows four entries, all with status 'ONLINE' and 'mysql' comments. A 'TOUR THIS PAGE' button is at the bottom left.

ProxySQL

Dashboard

Configuration

MySQL Users

MySQL Servers

MySQL Replication Hostgroups

MySQL Group Replication Hostgroups

MySQL Galera Hostgroups

MySQL AWS Aurora Hostgroups

MySQL Query Rules

MySQL Firewall Whitelist User

MySQL Firewall Whitelist Sqli Fingerprint

MySQL Firewall Whitelist Rules

MySQL Query Rules Fast Routing

Stats

Dashboard Managing: <https://localhost:6080> Current [v2.1.0-418-g59696118_DEBUG](#) Latest [v2.0.14-70-g7b02b19c](#) [Logout](#)

MySQL Servers

Dashboard / MySQL Servers

Show data from **Main** Runtime Disk [New Server](#) **Commands** [Export](#)

Column Visibility Search: Show 10 entries

Hostgroup Id	Hostname	Port	Status	Compression	Comment	GTID Port	Max. connections	Max. Latency	Max. Replication Lag	Use SSL
0	127.0.0.1	13306	ONLINE	⊗	mysql1	0	1000	0	180	⊗
1	127.0.0.1	13306	ONLINE	⊗	mysql1	0	1000	0	180	⊗
1	127.0.0.1	13307	ONLINE	⊗	mysql2	0	1000	0	180	⊗
1	127.0.0.1	13308	ONLINE	⊗	mysql3	0	1000	0	180	⊗

Showing 1 to 4 of 4 entries

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Enterprise Web UI

The screenshot displays the ProxySQL Enterprise Web UI interface. On the left is a dark sidebar with navigation items: ProxySQL, Dashboard, Configuration, Stats, Monitor, Admin Variables, MySQL Variables, ProxySQL Servers, and Backup Settings. The main content area is titled 'Add New - MySQL User' and includes a breadcrumb 'Dashboard / List / MySQL User'. At the top right, it shows 'Managing: https://localhost:6080', 'Current: v2.1.0-418-g59696118_DEBUG', 'Latest: v2.0.14-70-g7b02b19c', and a 'Logout' link. The form contains the following fields and controls:

- Username:** Text input with value 'Authentication user name'.
- Password:** Text input with value 'User password' and a 'Show password' button.
- Default schema:** Text input with value 'Default schema name'.
- Max. Connections:** Text input with value '1000'.
- Default Hostgroup:** Text input with value '0'.
- Active:** Toggle switch labeled 'User is active', which is currently turned on.
- Fast Forward:** Toggle switch labeled 'Enable fast-forward', which is currently turned off.
- Persistent Transaction:** Toggle switch labeled 'Use persistent transaction', which is currently turned on.
- Use SSL:** Toggle switch labeled 'Use ssl', which is currently turned off.
- Comment:** A large text area for additional notes.
- Save:** A blue button at the bottom left of the form.



Enterprise Web UI

 ProxySQL

[Dashboard](#) | [Configuration](#) | [Stats](#) | [Monitor](#) | [Admin Variables](#) | [MySQL Variables](#) | [ProxySQL Servers](#) | [Backup Settings](#)

Dashboard | Managing: <https://localhost:6080> | Current: [v2.1.0-418-g59696118_DEBUG](#) | Latest: [v2.0.14-70-g7b02b19c](#) | [Logout](#)

Add New - MySQL Server Dashboard / List / MySQL Servers

Hostname ⓘ	Port ⓘ	Hostgroup Id ⓘ
<input type="text" value="127.0.0.1"/>	<input type="text" value="3306"/>	<input type="text" value="100"/>
Max. connections ⓘ	Max. Latency ⓘ	
<input type="text" value="1000"/>	<input type="text" value="50"/> ms	
Compression ⓘ	GTID Port ⓘ	
<input type="checkbox"/> Enable compression in this server	<input type="text" value="0"/>	
<small>Note that compression will only be used for new connections initiated after the setting is loaded to runtime.</small>	Status ⓘ	
Max. Replication Lag ⓘ	<input type="text" value="0"/> ms	
<input type="text"/>	<input type="text" value="ONLINE"/>	
Use SSL ⓘ	Weight ⓘ	
<input type="checkbox"/> Use a secure SSL connection for this server	<input type="text"/>	
Comment ⓘ	<small>Weights are relevant only within a hostgroup</small>	
<input type="text"/>	<input type="text"/>	

[Save](#)



Enterprise Web UI

ProxySQL

Dashboard Managing: <https://localhost:6080> Current **v2.1.0-418-g59696118_DEBUG** Latest **v2.0.14-70-g7b02b19c** [Logout](#)

Add New - MySQL Replication Hostgroups

[Dashboard](#) / [List](#) / [MySQL Replication Hostgroups](#)

Writer Hostgroup ⓘ	Reader Hostgroup ⓘ
<input type="text" value="50"/>	<input type="text" value="60"/>
Check Type ⓘ	Comment ⓘ
<input type="text" value="Read Only"/>	<input type="text"/>

[Save](#)

- Dashboard
- Configuration
- MySQL Users
- MySQL Servers
- MySQL Replication Hostgroups
- MySQL Group Replication Hostgroups
- MySQL Galera Hostgroups
- MySQL AWS Aurora Hostgroups
- MySQL Query Rules
- MySQL Firewall Whitelist User



Enterprise Web UI

The screenshot displays the ProxySQL Enterprise Web UI interface. On the left is a dark sidebar with navigation options: ProxySQL, Dashboard, Configuration, Stats, Monitor, Admin Variables, MySQL Variables, ProxySQL Servers, and Backup Settings. The main content area is titled 'Add New - MySQL Galera Hostgroups' and includes a breadcrumb trail: Dashboard / List / MySQL Galera Hostgroups. At the top right, it shows 'Managing: https://localhost:6080', 'Current v2.1.0-418-g59696118_DEBUG', 'Latest v2.0.14-70-g7b02b19c', and a 'Logout' link. The configuration form contains several fields: 'Writer Hostgroup' (50), 'Backup Writer Hostgroup' (51), 'Reader Hostgroup' (60), 'Offline Hostgroup' (61), 'Active' (checked), 'Max. Writers' (1), and 'Max. Transactions Behind' (1). There is a section for 'Writer is also Reader' with radio button options (0, 1, 2) and a 'Comment' text area. A 'Save' button is located at the bottom left of the form.

ProxySQL

Dashboard

Configuration

Stats

Monitor

Admin Variables

MySQL Variables

ProxySQL Servers

Backup Settings

Dashboard

Managing: <https://localhost:6080>

Current **v2.1.0-418-g59696118_DEBUG** Latest **v2.0.14-70-g7b02b19c** [Logout](#)

Add New - MySQL Galera Hostgroups

[Dashboard](#) / [List](#) / [MySQL Galera Hostgroups](#)

Writer Hostgroup ⓘ

Backup Writer Hostgroup ⓘ

Reader Hostgroup ⓘ

Offline Hostgroup ⓘ

Active ⓘ

Enable Galera Hostgroup

Writer is also Reader ⓘ

0 - writers (read_only=0) will not be put into reader_hostgroup.

1 - writers (read_only=0) will be put into reader_hostgroup

2 - nodes from backup_writer_hostgroup will be put into reader_hostgroup

Max. Writers ⓘ


Max. Transactions Behind ⓘ

Comment ⓘ

[Save](#)



Enterprise Web UI

 ProxySQL

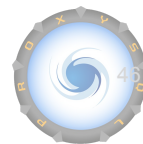
Dashboard Configuration Stats Monitor Admin Variables MySQL Variables ProxySQL Servers Backup Settings

Dashboard Managing: <https://localhost:6080> Current [v2.1.0-418-g59696118_DEBUG](#) Latest [v2.0.14-70-g7b02b19c](#) Logout

Add New - MySQL Group Replication Hostgroups

[Dashboard](#) / [List](#) / [MySQL Group Replication Hostgroups](#)

Writer Hostgroup ⓘ	<input type="text" value="50"/>	Backup Writer Hostgroup ⓘ	<input type="text" value="51"/>
Reader Hostgroup ⓘ	<input type="text" value="60"/>	Offline Hostgroup ⓘ	<input type="text" value="61"/>
Active ⓘ	<input checked="" type="checkbox"/> Enable Group Replication Hostgroup		
Writer is also Reader ⓘ	<input type="radio"/> 0 - writers (read_only=0) will not be put into reader_hostgroup. <input type="radio"/> 1 - writers (read_only=0) will be put into reader_hostgroup <input type="radio"/> 2 - nodes from backup_writer_hostgroup will be put into reader_hostgroup		
Comment ⓘ	<input type="text"/>		



Enterprise Web UI

ProxySQL

Dashboard Managing: <https://localhost:6080> Current: [v2.1.0-418-g59696118_DEBUG](#) Latest: [v2.0.14-70-g7b02b19c](#) [Logout](#)


Dashboard / List / MySQL AWS Aurora Hostgroup

Add New - MySQL AWS Aurora Hostgroup

Writer Hostgroup ⓘ	<input type="text" value="50"/>	Reader Hostgroup ⓘ	<input type="text" value="60"/>
Aurora Port ⓘ	<input type="text" value="3306"/>	Active ⓘ	<input checked="" type="checkbox"/> Enable AWS Aurora Hostgroup
Domain Name ⓘ	<input type="text" value="example.com"/>	Max Lag ⓘ	<input type="text" value="10"/> ms
Check Interval ⓘ	<input type="text" value="20"/> ms	Check Timeout ⓘ	<input type="text" value="10"/> ms
Add Lag ⓘ	<input type="text" value="25"/> ms	Min. Lag ⓘ	<input type="text" value="5"/> ms
Lag Num. Checks ⓘ	<input type="text" value="16"/>	Writer is also Reader ⓘ	<input type="radio"/> 0 - writers (read_only=0) will not be put into reader_hostgroup. <input type="radio"/> 1 - writers (read_only=0) will be put into reader_hostgroup
New Reader Weight ⓘ	<input type="text" value="0"/>	Comment ⓘ	<input type="text"/>



Enterprise Web UI

 ProxySQL

[Dashboard](#) | [Configuration](#) | [MySQL Users](#) | [MySQL Servers](#) | [MySQL Replication Hostgroups](#) | [MySQL Group Replication Hostgroups](#) | [MySQL Galera Hostgroups](#) | [MySQL AWS Aurora Hostgroups](#) | **MySQL Query Rules** | [MySQL Firewall Whitelist User](#) | [MySQL Firewall Whitelist Sqli Fingerprint](#) | [MySQL Firewall Whitelist Rules](#)

Dashboard | Managing: <https://localhost:6080> | Current: [v2.1.0-418-g59696118_DEBUG](#) | Latest: [v2.0.14-70-g7b02b19c](#) | [Logout](#)

MySQL Query Rules

Dashboard / MySQL Query Rules

Show data from: **Main** | Runtime | Disk

[New Query Rule](#) | [Commands](#) | [Export](#)

Column Visibility | Search: | Show 10 entries


ID	Username	Active	Re Modifiers	Replace Pattern	Digest	Match Digest	Match Pattern	Negate Match Pattern	Destination Hostgroup	Apply	Rule details
1	(null)	<input checked="" type="checkbox"/>	CASELESS	<input checked="" type="checkbox"/>	(null)	^SELECT.*FOR UPDATE	(null)	<input checked="" type="checkbox"/>	0	<input checked="" type="checkbox"/>	Details
2	(null)	<input checked="" type="checkbox"/>	CASELESS	<input checked="" type="checkbox"/>	(null)	^SELECT	(null)	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	Details

Showing 1 to 2 of 2 entries

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Enterprise Web UI

 ProxySQL

Dashboard Managing: <https://localhost:6080> Current [v2.1.0-418-g59696118_DEBUG](#) Latest [v2.0.14-70-g7b02b19c](#) [Logout](#)

Add New - MySQL Query Rules Dashboard / List / MySQL Query Rules

Username ⓘ

Active ⓘ

 Enable Query Rule

Re Modifiers ⓘ

Replace Pattern ⓘ

 Replace Pattern

Digest ⓘ

Match Digest ⓘ

Match Pattern ⓘ

Negate Match Pattern ⓘ

 Negate match pattern

Destination Hostgroup ⓘ

Apply ⓘ

 Apply

Advanced Options

- + Schema Name
- + Client Addr.
- + Proxy Addr.
- + Proxy Port
- + Flag In
- + Flag Out
- + Cache TTL
- + Cache Empty Result
- + Cache Timeout
- + Reconnect
- + Timeout
- + Retries
- + Delay
- + Next Query FlagIn
- + Mirror FlagOUT
- + Mirror Hostgroup
- + Error Message
- + OK Message
- + Sticky Connection
- + Multiplex
- + GTID from hostgroup
- + Log
- + Comment



Enterprise Web UI

The screenshot shows the ProxySQL Enterprise Web UI interface. On the left is a dark sidebar with navigation items: ProxySQL, Dashboard, Configuration, Stats, Admin Variables (highlighted), MySQL Variables, ProxySQL Servers, and Backup Settings. The main content area is titled 'Admin Variables' and shows a table of configuration variables. At the top right, it indicates the current version is 'v2.1.0-418-g59696118_DEBUG' and the latest is 'v2.0.14-70-g7b02b19c'. There are buttons for 'Commands' and 'Export'. The table has columns for 'Variable Name' and 'Variable Value'. The first row is 'admin-admin_credentials' with a text input field containing 'admin:admin;radmin:radmin'. The next five rows are 'admin-checksum_admin_variables', 'admin-checksum_mysql_query_rules', 'admin-checksum_mysql_servers', 'admin-checksum_mysql_users', and 'admin-checksum_mysql_variables', each with an 'Enable' toggle switch. The next two rows are 'admin-cluster_admin_variables_diffs_before_sync' with a text input field containing '3', and 'admin-cluster_admin_variables_save_to_disk' with an 'Enable' toggle switch. At the bottom, there is a 'TOUR THIS PAGE' button and a partially visible row for 'eck_interval_ms' with a text input field containing '1000'.

ProxySQL

Dashboard

Configuration

Stats

Admin Variables

MySQL Variables

ProxySQL Servers

Backup Settings

Dashboard

Managing: <https://localhost:6080>

Current **v2.1.0-418-g59696118_DEBUG** Latest **v2.0.14-70-g7b02b19c** Logout

Admin Variables

Dashboard / Admin Variables

Show data from **Main** Runtime Disk

Commands **Export**

Column Visibility Search: Show 100 entries

Variable Name	Variable Value
admin-admin_credentials	<input type="text" value="admin:admin;radmin:radmin"/>
<small>This is a list of semi-colon separated user:password pairs, that can be used to authenticate to the admin interface with read-write rights. For read-only credentials that can be used to connect to the admin, see the variable admin-stats_credentials. Note that the admin interface listens on a separate port from the main ProxySQL thread.</small>	
admin-checksum_admin_variables	<input checked="" type="checkbox"/> Enable
admin-checksum_mysql_query_rules	<input checked="" type="checkbox"/> Enable
admin-checksum_mysql_servers	<input checked="" type="checkbox"/> Enable
admin-checksum_mysql_users	<input checked="" type="checkbox"/> Enable
admin-checksum_mysql_variables	<input checked="" type="checkbox"/> Enable
admin-cluster_admin_variables_diffs_before_sync	<input type="text" value="3"/>
admin-cluster_admin_variables_save_to_disk	<input checked="" type="checkbox"/> Enable
TOUR THIS PAGE eck_interval_ms	<input type="text" value="1000"/>



Enterprise Web UI

The screenshot displays the ProxySQL Enterprise Web UI. On the left is a dark sidebar with navigation items: ProxySQL, Dashboard, Configuration, Stats, Admin Variables, MySQL Variables (highlighted), ProxySQL Servers, and Backup Settings. The main content area shows the 'MySQL Variables' page for the instance 'https://localhost:6080'. At the top right, it indicates the current version is 'v2.1.0-418-g59696118_DEBBUG' and the latest is 'v2.0.14-70-g7b02b19c'. Below the title, there are tabs for 'Main', 'Runtime', and 'Disk', with 'Main' selected. A 'Show data from' dropdown is set to 'Main'. To the right are 'Commands' and 'Export' buttons. A search bar and 'Show 100 entries' are also present. The main table lists MySQL variables with their values and controls:

Variable Name	Variable Value
mysql-add_ldap_user_comment	Variable Value
mysql-auditlog_filename	Variable Value
mysql-auditlog_filesize	104857600
mysql-aurora_max_lag_ms_only_read_from_replicas	2
mysql-auto_increment_delay_multiplex	5
mysql-autocommit_false_is_transaction	<input checked="" type="checkbox"/> Enable
mysql-autocommit_false_not_reusable	<input checked="" type="checkbox"/> Enable
mysql-automatic_detect_sqli	0
mysql-connect_retry_msec	3000



Enterprise Web UI

The screenshot displays the ProxySQL Enterprise Web UI interface. On the left is a dark sidebar with the ProxySQL logo and a menu of navigation items: Dashboard, Configuration, Stats, Monitor, Admin Variables, MySQL Variables, ProxySQL Servers, and Backup Settings. The main content area has a light blue header with a hamburger menu, 'Dashboard', 'Managing: https://localhost:6080', 'Current v2.1.0-418-g59696118_DEBUG', 'Latest v2.0.14-70-g7b02b19c', and a 'Logout' link. Below the header, the page title is 'Add New - MySQL Firewall Whitelist Users' with a breadcrumb trail 'Dashboard / List / MySQL Firewall Whitelist Users'. The form contains several fields: 'Username' (text input), 'Client Address' (text input), 'Comment' (text area), 'Active' (checkbox labeled 'enable firewall whitelist user'), and 'Mode' (dropdown menu set to 'OFF'). A blue 'Save' button is located at the bottom left of the form.

ProxySQL

Dashboard

Configuration

Stats

Monitor

Admin Variables

MySQL Variables

ProxySQL Servers

Backup Settings

Dashboard

Managing: <https://localhost:6080>

Current [v2.1.0-418-g59696118_DEBUG](#) Latest [v2.0.14-70-g7b02b19c](#) [Logout](#)

Add New - MySQL Firewall Whitelist Users

[Dashboard](#) / [List](#) / [MySQL Firewall Whitelist Users](#)

Username ⓘ

Client Address ⓘ

Comment ⓘ

Active ⓘ

 enable firewall whitelist user

Mode ⓘ

[Save](#)



Enterprise Web UI

The screenshot displays the ProxySQL Enterprise Web UI interface. On the left is a dark sidebar with a navigation menu including: Dashboard, Configuration, MySQL Users, MySQL Servers, MySQL Replication Hostgroups, MySQL Group Replication Hostgroups, MySQL Galera Hostgroups, MySQL AWS Aurora Hostgroups, MySQL Query Rules, MySQL Firewall Whitelist User, MySQL Firewall Whitelist SqlI Fingerprint, MySQL Firewall Whitelist Rules (highlighted), and MySQL Query Rules Fast Routing. The main content area is titled "MySQL Firewall Whitelist Rules" and includes a breadcrumb "Dashboard / MySQL Firewall Whitelist Rules". At the top right, it shows the current version "v2.1.0-418-g59696118_DEBUG" and a "Logout" link. Below the title, there are tabs for "Main", "Runtime", and "Disk", and buttons for "Bulk load from MySQL Query Digest History", "Commands", and "Export". A "Filters" section contains three input fields for "Usernames", "Schema Names", and "Client Address", each with the placeholder text "Schemas to hostgroups". Below these fields are a "Filter" button and a "Bulk Actions" dropdown menu. A table interface is shown below with a search bar and "Show 10 entries" control. The table has columns: Username, Client Address, Schemaname, Flag IN, Active, Digest, and Comment. The table is currently empty, displaying "No data available in table" and "Showing 0 to 0 of 0 entries". "Previous" and "Next" navigation buttons are at the bottom right of the table area. The top navigation bar shows "Dashboard" and "Managing: https://localhost:6080".



Enterprise Web UI

The screenshot displays the ProxySQL Enterprise Web UI interface. On the left is a dark sidebar with the ProxySQL logo and navigation menu items: Dashboard, Configuration, Stats, Monitor, Admin Variables, MySQL Variables, ProxySQL Servers, and Backup Settings. The main content area is titled "MySQL Firewall Whitelist Rules - Bulk Load" and includes a breadcrumb trail: Dashboard / MySQL Firewall Whitelist Rules / Bulk Load. At the top right, it shows the current version as "v2.1.0-418-g59696118_DEBUG" and the latest version as "v2.0.14-70-g7b02b19c", along with a "Logout" link. The interface is divided into two main sections. The first section, "Filters", contains input fields for "Hostgroups" (Schemas to hostgroups), "Users" (Schemas to users), "Schemas" (Schemas to filter), and "Digest Text Search" (Your query). Below these is a "Dump Times" section with two empty input boxes and a "Filter" button. The second section, "Mass import to MySQL Firewall Whitelist Rules", includes a "Comment" field, an "Active" toggle set to "Auto-enable the rule", and a "Replace" toggle set to "Replace duplicated current rules". Underneath, the "Import Entries" section has radio buttons for "Selected entries" (0) and "All filtered entries" (0), followed by an "Import" button. A circular logo with a blue swirl and the letters "A B C D E F G H I J K L M N O P Q R S T U V W X Y Z" is visible in the bottom right corner.

Enterprise Web UI

The screenshot displays the ProxySQL Enterprise Web UI interface. On the left is a dark sidebar with navigation options: ProxySQL, Dashboard, Configuration, Stats, MySQL Connection Pool (selected), MySQL Query Digest, MySQL Query Digest History, MySQL Query Rules, ProxySQL Servers Checksums, MySQL Users, MySQL Global, Admin Variables, MySQL Variables, ProxySQL Servers, and Backup Settings. The main content area shows the 'Stats - Connection Pool' page for the URL 'https://localhost:6080'. The page includes a search bar, a 'Show 10 entries' dropdown, and an 'Export' button. A table displays connection pool statistics for four entries. The table has columns: Hostgroup, Status, Host, Port, Received, Sent, Errors, Free, Ok, Used, Latency, Max Conn. Used, and Queries. The first entry (Hostgroup 0) shows 120 Max Conn. Used and 278310 Queries. The other three entries (Hostgroup 1) show 0 Max Conn. Used and 0 Queries. At the bottom, there is a 'TOUR THIS PAGE' button and the text 'Showing 1 to 4 of 4 entries'. The footer contains 'ProxSQL - Web Admin' and a version indicator 'v2.1.0-418-g59696118_DEBUG'.

Dashboard / Connection Pool

Export

Column Visibility Search: Show 10 entries

Hostgroup ↑↓	Status ↑↓	Host ↑↓	Port ↑↓	Received ↑↓	Sent ↑↓	Errors ↑↓	Free ↑↓	Ok ↑↓	Used ↑↓	Latency ↑↓	Max Conn. Used ↑↓	Queries ↑↓
0	ONLINE	127.0.0.1	13306	0	66265548	0	100	120	0	674	120	278310
1	ONLINE	127.0.0.1	13306	0	0	0	0	0	0	674	0	0
1	ONLINE	127.0.0.1	13307	0	0	0	0	0	0	699	0	0
1	ONLINE	127.0.0.1	13308	0	0	0	0	0	0	1100	0	0

Showing 1 to 4 of 4 entries

Previous 1 Next

TOUR THIS PAGE

ProxSQL - Web Admin



Q&A

Any questions?

