Introducing ProxyWeb
the Open Source
ProxySQL Web UI

https://proxyweb.org
About me - Miklos “Mukka” Szel

- from Hungary
- Started using Linux in 1997 and MySQL in 2000, used to be a backend developer
- Worked at ISP, Walt Disney (Cricinfo, Intl sites), PalominoDB/Pythian (Sendgrid, Fitbit, Zendesk, Adobe)
- Working for Edmodo since late 2015 as Senior MySQL Architect
ProxySQL

- A high performance sql proxy that supports:
  - Intelligent load balancing
  - Query routing/caching, read/write split
  - Connection pooling
  - Real time stats
  - Runtime configuration
  - Clustering
ProxyWeb - Basic idea

- ProxySQL uses a sqlite3 db to store its data
- It can be queried through the standard MySQL client protocol
- We have a backend, we only need a frontend!!!
- The first version was created in 2018 in Python/Bootstrap3
- ProxyWeb helped us dealing with 25x DB traffic growth during last march
- It was Open Sourced under GPLv3 in 2021
- It also comes with a really nice test environment
Features

- Clean and responsive design
- Multi-server support
- Customizable reporting page
- Global and per-server options
  - Hide tables
  - Read-only
Features - Contd.

- ProxySQL version independent
- Sort content by any column (asc/desc)
- Online config editor
- Narrow-down content search
- Content pagination
<table>
<thead>
<tr>
<th>variable_name</th>
<th>variable_value</th>
</tr>
</thead>
<tbody>
<tr>
<td>admin-credentials</td>
<td>admin:admin,arthur.zaphod</td>
</tr>
<tr>
<td>admin-checksum_admin_variables</td>
<td>true</td>
</tr>
<tr>
<td>runtime_proxysql_servers</td>
<td>true</td>
</tr>
<tr>
<td>runtime_scheduler</td>
<td>true</td>
</tr>
<tr>
<td>admin-checksum_mysql_servers</td>
<td>true</td>
</tr>
<tr>
<td>admin-checksum_mysql_users</td>
<td>true</td>
</tr>
</tbody>
</table>
Installation - Docker

- Single Line installation next to a ProxySQL instance:
  docker run --network="host" -d proxyweb/proxyweb:latest

- Remote access
  set admin-admin_credentials="admin:admin, radmin:radmin";
  load admin variables to runtime; save admin variables to disk;
  docker run -h proxyweb --name proxyweb -p 5000:5000 -d proxyweb/proxyweb:latest
Installation - systemd (Ubuntu)

```bash
git clone https://github.com/edmodo/proxyweb
cd proxyweb
make install
```

Visit [http://ip_of_the_host:5000/setting/edit](http://ip_of_the_host:5000/setting/edit) first and edit the servers section.
Demo - I

Showtime

Snippets: https://bit.ly/3dWc1Um
git clone https://github.com/edmodo/proxyweb.git

cd proxyweb

make compose-up
## The ProxyWeb Test Env - Contd.

<table>
<thead>
<tr>
<th>Service</th>
<th>Host Port</th>
<th>Container</th>
<th>Container port</th>
</tr>
</thead>
<tbody>
<tr>
<td>MySQL source</td>
<td>23306</td>
<td>db1</td>
<td>3306</td>
</tr>
<tr>
<td>MySQL replica</td>
<td>23307</td>
<td>db2</td>
<td>3306</td>
</tr>
<tr>
<td>MySQL replica</td>
<td>23308</td>
<td>db3</td>
<td>3306</td>
</tr>
<tr>
<td>MySQL replica</td>
<td>23309</td>
<td>db4</td>
<td>3306</td>
</tr>
<tr>
<td>ProxySQL</td>
<td>admin: 16032, app: 13306</td>
<td>proxysql_donor</td>
<td>admin: 6032, app: 3306</td>
</tr>
<tr>
<td>ProxySQL</td>
<td>admin: 16033, app: 13307</td>
<td>proxysql_satellite</td>
<td>admin: 6032, app: 3306</td>
</tr>
<tr>
<td>ProxySQL</td>
<td>admin: 16034, app: 13308</td>
<td>proxysql_standalone</td>
<td>admin: 6032, app: 3306</td>
</tr>
<tr>
<td>Orchestrator</td>
<td>3000</td>
<td>orchestrator</td>
<td>3000</td>
</tr>
<tr>
<td>Goss</td>
<td>8000</td>
<td>goss</td>
<td>8000</td>
</tr>
<tr>
<td>ProxyWeb</td>
<td>5000</td>
<td>proxyweb</td>
<td>5000</td>
</tr>
</tbody>
</table>
Demo - II

Showtime

https://github.com/edmodo/proxyweb#testing-with-docker-compose
Snippets: https://bit.ly/3dWc1Um
Thanks!

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