New Contributor Tutorial
Best practices

Vicențiu Ciorbaru
Software Developer Team Lead
@ MariaDB Foundation

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whoami

- Vicențiu Ciorbaru
- MariaDB Foundation, Software Developer Team Lead
- MariaDB developer since 2013-
- Implemented Roles, Window Functions and others
How to contribute?

● Similar to many open source projects

● We have our code on github.com

● We accept contributions in many forms

● Simplest are Knowledge Base edits, bug reports and pull requests (code)
How to contribute to documentation?

- Go to https://mariadb.com/kb/en/
- Create a new user or login
How to contribute to documentation?

- Go to https://mariadb.com/kb/en/
- Create a new user or login
- Then open any Knowledge Base article
- Use Edit or Translate Menus on the left
- All contributions are reviewed and / or curated
How to contribute to documentation?

Translate: 谁在给MariaDB做贡献？

The parent for this article (Friends of MariaDB) has not been translated to Traditional Chinese so this translation will be placed under the closest translated ancestor MariaDB - 繁體中文.

Parent Category: MariaDB - 繁體中文

Title*

Translate: 谁在给MariaDB做贡献？

Questions and answers use Wiki Creole syntax for markup. Code and program output should go between `<code>` and `</code>` tags. Please see editing help for more information.

Content

[[mariadb-versus-mysql|MariaDB]]是Michael "Monty" Widenius（MySQL的开发人员），[[http://montyprogram.com|Monty Program Ab]]以及[[http://mariadb.org|MariaDB基金会]]的成员共同努力的成果。

MariaDB的核心开发人员是由MariaDB基金会支持的，而这个基金会主要由企业和基金会的个人以及[[community|MariaDB 社区]]中的开发人员组成。通过对我们核心开发人员的了解，你可以发现我们是想将MariaDB打造成一个专家团队。在基金会成立之前，Monty Program Ab一直承担着这个管理者的角色，直到基金会成立。

你可以在[[https://launchpad.net/~mariadb-captains|Launchpad]]找到当前活跃的核心贡献者（[[what-are-the-criteria-for-becoming-a-maria-captain|MariaDB 小组]]）。每个有足够技术经验的活跃分子都可以加入这个团队，而且并不意味着你一定要为MariaDB基金会，Monty Program Ab，或者是其他基金会旗下的公司工作才有可能参与进来或者是能提交代码。

这是一个有关MariaDB的，你也参与进来的，非常活跃的[[where-are-other-users-and-developers-of-mariadb|社区]]，开发者的贡献都可以在[[log-of-mariadb-contributions|log of MariaDB contributors]]查到。
How to contribute bug reports?

- Go to https://jira.mariadb.org
- Create a new user or login
- To create a new bug report or feature request:
How to contribute code?

● The code is public at: https://github.com/MariaDB/server

● First create a fork of the repo. https://help.github.com/articles/fork-a-repo/
How to contribute code?

- We use a git repository. Download and install git.
  
  $ sudo apt install git

- Clone the server fork you have created
  
  $ git clone https://github.com/newcontributor/server.git

  $ cd server
How to contribute code?

- Install all required build dependencies:
  
  ```bash
  $ sudo apt-get build-dep mariadb-server
  ```

- Simplest is to run a BUILD script to compile the server
  
  ```bash
  $ BUILD/compile-pentium64-debug
  ```
How to contribute code?

- We have finished building the server. We can run tests to see if it works properly.

```bash
$ cd mysql-test && ./mtr --parallel=4 --mem
```

--parallel=n starts n tests in parallel
--mem will use a memory filesystem instead of disk
How to contribute code?

- We do not have a traditional "master" branch

- Instead we use the major version number as the branch name

  5.5, 10.0, 10.1, 10.2, 10.3, 10.4, 10.5

- Largest one is the main development branch.
- Others are for bug-fixing only.
How to contribute code?

● Make sure you are using latest branch as a base:
   ```
   ~/server/$ git checkout 10.3 && git pull
   ```

● Create a new branch based on newest 10.3
   ```
   ~/server/$ git checkout -b 10.3-patch
   ```

● Write your patch, then add all changes and commit.
  Write an informative commit message.
  ```
  ~/server/$ git add . && git commit
  ```
How to contribute code?

- Push your patch to your local github repository
  
  $ git push

- Go to your github fork page, pull-requests tab and start a new pull request.
How to contribute code?

- Chose MariaDB/server as base fork and 10.5 branch
- Chose your fork and branch as head fork
- Click Create pull request!
Tips and Tricks

- Reviews will come as comments on github.
- Address any concerns and update your branch.
- It’s strongly recommended to include test cases as part of your patch.
Licensing

- **MariaDB Contributor Agreement**
  [https://mariadb.org/get-involved/getting-started-for-developers/mca/](https://mariadb.org/get-involved/getting-started-for-developers/mca/)
  [https://mariadb.org/get-involved/getting-started-for-developers/mca-faq/](https://mariadb.org/get-involved/getting-started-for-developers/mca-faq/)

- **BSD-new**
Licensing

- The CLA Assistant makes it much easier to sign the MCA. Just click on the button and sign.

CLAassistant commented 14 days ago

CLA not signed yet

Thank you for your submission, we really appreciate it. Like many open source projects, we ask that you sign our Contributor License Agreement before we can accept your contribution.

You have signed the CLA already but the status is still pending? Let us recheck it.
Creating a test case

- Inside mysql-test/t/ directory create a test case file.

```bash
~/server/$ cd mysql-test && touch t/hello.test
```

- Add statement within test file

```bash
$ echo 'SELECT "Hello World!";' > t/hello.test
```

- Run mysql-test-run on the new test.

```bash
$ ./mtr hello
```
Creating a test case
Creating a test case

- If the results of the test are ok, you need to record it.
  $ ./mtr --record hello

- This will create the file
  mysql-test/r/hello.result

- When submitting a patch, include both .test and .result files.
MariaDB is built continuously using our buildbot infrastructure.
http://buildbot.askmonty.org/buildbot/grid?category=main&branch=10.5

All main branches (5.5, 10.0, 10.1, 10.2, 10.3, 10.4, 10.5) are built fully on many builders.

All dev branches starting with bb-* as a name are built on a subset of builders.
Buildbot for community

● We are working on updating our old buildbot to a new one. The new project is at:

https://buildbot.mariadb.org

● All pull requests are tested by our new buildbot infrastructure.
Buildbot for community

Some checks were not successful
1 failing and 17 successful checks

- **buildbot/pc9-ubuntu-1804** — Build done.
- **buildbot/centos-7** — Build done.
- **buildbot/centos-7-rpm-autobake** — Build done.
- **buildbot/debian-9** — Build done.
- **buildbot/fedora-28** — Build done.
- **buildbot/fedora-28-rpm-autobake** — Build done.

This branch has no conflicts with the base branch when rebasing
Rebase and merge can be performed automatically.

Rebase and merge ▼ or view command line instructions.
How to reach out to us

- **Mailing Lists:**
  - Maria Developers
    https://lists.launchpad.net/maria-developers/
  - Maria Discuss
    https://lists.launchpad.net/maria-discuss/
  - Maria Documentation
    https://lists.launchpad.net/maria-docs/

- **ZulipChat**
  - https://mariadb.zulipchat.com

- **Find us on IRC #maria and #maria-dev on FreeNode**
This talk would not have been possible if it not for the MariaDB Foundation's sponsors.
Thank you!

Contact details:

vicentiu@mariadb.org

About:

https://mariadb.org/vicentiu