



Getting started- How to raise your first patch

Rutuja Surve
MariaDB Foundation



The MariaDB Foundation

Supporting continuity and
open collaboration

**Please support us to guarantee
that our mission succeeds!**

Getting Started for Developers

Find development projects to work on:

JIRA has a list of unresolved and unassigned issues: <https://jira.mariadb.org/>

List of beginner friendly tasks also available

<https://mariadb.com/kb/en/library/contributing-code/>

<https://mariadb.com/kb/en/library/project-suggestions/>

<https://mariadb.com/kb/en/library/plans-for-mariadb-104/>

Join [maria-developers](#) and write to the maria-developers@lists.launchpad.net for questions or suggestions

Ask any questions on : #maria channel on freenode in IRC

Get the Code, Build it, Test it



MariaDB Server is hosted on GitHub: <https://github.com/MariaDB/server>.

Prerequisites: Git and Cmake

Fork and clone the repo: `git clone https://github.com/MariaDB/YOUR-USERNAME/server`

Install dependencies: `apt-get build-dep mysql-server && apt-get install libgnutls28-dev`

Configure the build: cmake to generate makefiles for compiling the server

```
cmake . -DCMAKE_BUILD_TYPE=Debug
```

Compile: `make -j5`

Testing the server: `cd mysql-test`

```
./mtr --parallel=5 --mem --force --max-test-fail=0
```

<https://mariadb.org/get-involved/getting-started-for-developers/get-code-build-test/>

Writing Good Test Cases for MariaDB Server

Starting point for writing test cases: `mysql-test/main`

`.test` and `.result` files for tests should be located here

`mysql-test-run.pl` supports special extensions:

Output a message into the test result via `--echo <Message>`

Test error cases: If a statement is required to fail, use `--error <error-name>`

Create a test case is to create a file in the `mysql-test/main/` directory

Run the test-case: `./mtr <test-case-name> --record`

`--record` creates a `.result` file for the test that is run

Good practices for test cases:

<https://mariadb.org/get-involved/getting-started-for-developers/writing-good-test-cases-mariadb-server/>

Submitting a Pull Request



Clone the fork of the server on your local machine

Create a development branch for the feature or bug fix

- Code the patch, write a test case for it. Record the result of the test, running the full test suite
- Commit the patch, including the test and result files.
- Follow the guidelines for writing a good commit message.
- Push the changes to your repository
- Go to Github to initiate a pull request

<https://mariadb.org/get-involved/getting-started-for-developers/submitting-pull-request/>



Thank You