# Contributing to Docker Bench for Security

Want to hack on Docker Bench? Awesome! Here are instructions to get you

started.

The Docker Bench for Security is a part of the [Docker](https://www.docker.com)

project, and follows the same rules and principles. If you're already familiar

with the way Docker does things, you'll feel right at home.

Otherwise, go read

[Docker's contributions guidelines](https://github.com/docker/docker/blob/master/CONTRIBUTING.md).

## Development Environment Setup

The only thing you need to hack on Docker Bench for Security is a POSIX 2004

compliant shell. We try to keep the project compliant for maximum portability.

### Start hacking

You can build the container that wraps the docker-bench for security:

```sh

git clone git@github.com:docker/docker-bench-security.git

cd docker-bench-security

docker build -t docker-bench-security .

```

Or you can simply run the shell script locally:

```sh

git clone git@github.com:docker/docker-bench-security.git

cd docker-bench-security

sudo sh docker-bench-security.sh

```

The Docker Bench has the main script called `docker-bench-security.sh`.

This is the main script that checks for all the dependencies, deals with

command line arguments and loads all the tests.

The tests are split into the following files:

```sh

tests/

??? 1\_host\_configuration.sh

??? 2\_docker\_daemon\_configuration.sh

??? 3\_docker\_daemon\_configuration\_files.sh

??? 4\_container\_images.sh

??? 5\_container\_runtime.sh

??? 6\_docker\_security\_operations.sh

??? 7\_docker\_swarm\_configuration.sh

??? 8\_docker\_enterprise\_configuration.sh

??? 99\_community\_checks.sh

```

To modify the Docker Bench for Security you should first clone the repository,

make your changes, check your code with `shellcheck`, `checkbashisms` or similar

tools, and then sign off on your commits. After that feel free to send us a

pull request with the changes.

While this tool was inspired by the [CIS Docker 1.11.0 benchmark](https://www.cisecurity.org/benchmark/docker/)

and its successors, feel free to add new tests. We will try to turn

[dockerbench.com](https://dockerbench.com) into a list of good community

benchmarks for both security and performance, and we would love community

contributions.