

# Brno University of Technology - Faculty of Information Technology

## Bachelor's Thesis - Implementation

2017/2018

### Requirements

Bot is working under Linux only!

Bot is customized to MY account credentials!

To change it on yours, please see the *customization* section.

### Credentials

- **GitHub personal access token**
  - full access if possible to avoid unsolicited access problems
- Github organization
  - to be a member
- Organization's repository
  - the bot is set to check this repository (pull requests / builds / etc.)
- Your own forked repository from the organization's repository
  - to create a pull request which will be inspected by the bot (bot reacts to the PR's comments)
- **Gitter personal access token**
  - do not forget to sign in
- Gitter room

### Customization

Rewrite my informations by yours in:

- initializing script `miqbot_init.sh`
  - occurrence of `xtest123/testrepo` to yours organization/repository
- resetting script `miqbot_reset.sh`
  - occurrence of `xtest123/testrepo` to yours organization/repository
- configuration file `~/miq_bot/config/settings/development.local.yml`
  - `github_credentials` → username
  - `github_credentials` → password
  - occurrence of `xtest123/testrepo` to yours organization/repository

### Setup

1. Download and install **Oracle VM VirtualBox**
2. Download **CentOS 7**
  - **CentOS-7-x86\_64-Minimal-1708.iso**
3. Set up the virtual machine - follow the instructions in **VM\_SETUP.md**
4. Execute the following commands in the following order from top to bottom:
  - `cd /root`
  - `yum install -y git`
  - `git clone https://github.com/europ/VUTBR-FIT-BT-IMPL.git`
  - `cd VUTBR-FIT-BT-IMPL`
  - `./install.sh`
  - `./rbenv.sh`
  - `./miqbot_init.sh`
  - `cd ~/miq_bot`

- Start the bot (`git checkout master` - to check that everything works correctly):
  - Start all Sidekiq workers together
    - \* `bundle exec foreman start`
  - Start Sidekiq workers separately (open 3 shells)
    - \* `bundle exec rails s`
    - \* `bundle exec sidekiq -q miq_bot`
    - \* `bundle exec sidekiq -q miq_bot_glacial`

## NOTE

- If you would like to access the Sidekiq idle (dashboard) from your outer browser (not in virtual machine) then you have to launch the `bundle exec rails s` on address `0.0.0.0` inside of the virtual machine and on some port e.g. `3000`. After this you will be able to access the Sidekiq idle via `http://<VM_IP>:<PORT>` e.g. `http://192.168.56.12:3000`.
  1. `service firewallld stop`
  2. `bundle exec rails s -b 0.0.0.0 -p 3000`
- At bot termination via SIGINT it is possible to get him into unstable state. Besides that, you may also face an “actor crashed” error too. This could be solved by resetting the bot which also require to launch him firstly on master branch.
  1. `~/VUTBR-FIT-BT-IMPL/miqbot_reset.sh`
  2. `cd ~/miq_bot && git checkout master`
  3. Launch

## Pull Requests

To check the pull request functionality you have to `git checkout` the pertaining branch of the pull request which can be found in the footnotes of the [thesis](#).

## ManageIQ Bot

The original setup of the [ManageIQ bot](#) can be found [here](#).

## Bachelor’s Thesis

Bachelor’s Thesis is available [here](#).