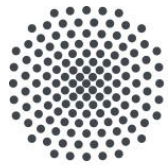# GitLab Instructions for Students
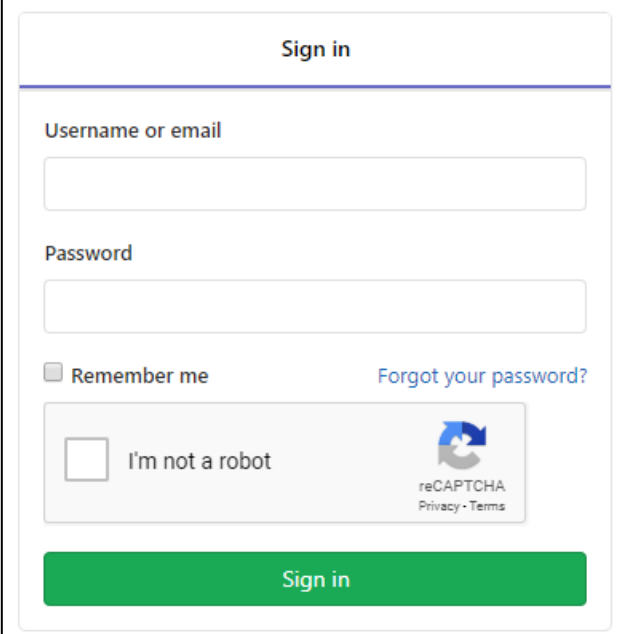
IAAS Research

Brian Setz

brian.setz@iaas.uni-stuttgart.de

Service Computing Department

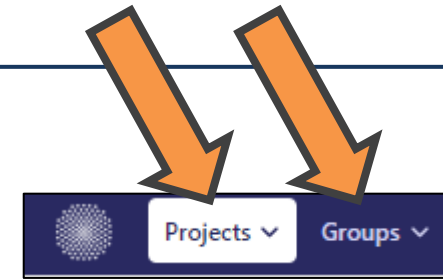Institute of Architecture of Application Systems

University of Stuttgart

Organisation of Student Repositories

- GitLab https://gitlab.svccomp.de/

  - Web-based Git repository manager (like GitHub)

    - Git → distributed version control system

    - Documentation: https://gitlab.svccomp.de/help/user/index.md

  - Your supervisor will create an account for you using your student email address

    - Follow the email instructions to set your password

- Login with your username / email and password once you have configured your password

- Fill in the reCAPTCHA

- Complete the login process

Sign in

Username or email

Password

☐ Remember me   Forgot your password?

☐ I'm not a robot   reCAPTCHA
                           Privacy - Terms

Sign in

GitLab Usage

- Browse all groups assigned to you

  - https://gitlab.svccomp.de/dashboard/groups

- Browse all repositories assigned to you

  - https://gitlab.svccomp.de/dashboard/projects

- Setup your SSH keys

  - https://gitlab.svccomp.de/profile/keys

  - Generate SSH keys:

    - https://gitlab.svccomp.de/help/ssh/README#generating-a-new-ssh-key-pair

- How to use git

  - https://rogerdudler.github.io/git-guide/

  - https://product.hubspot.com/blog/git-and-github-tutorial-for-beginners

  - https://git-scm.com/docs/gittutorial

Branches

- Master branch should contain only the **final version** of your work

- By default the **master branch is protected**

  - This means you cannot commit to it

- Create a **develop branch**

  - `$ git checkout -b develop`

  - `$ git push -u origin develop`

- Add your commits to the develop branch and push them

- Modifications to this branching model may be made by your supervisor

Final Version

- Before finishing your project or thesis, the **final version has to be placed in the master branch.** This is <u>mandatory</u>
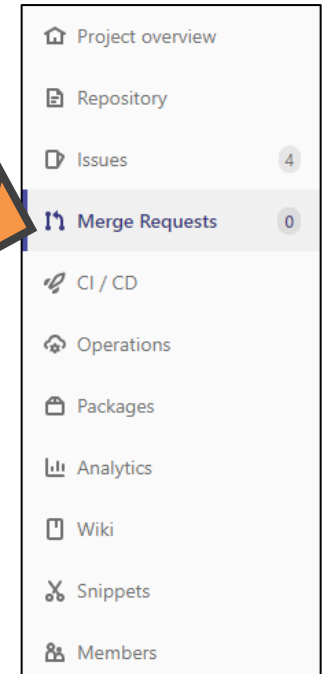
- Create a Merge Request
  - Source: develop
  - Target: master

- Assign your supervisor to the merge request

- Finalize the merge request