

Verlässliche Echtzeitsysteme

Übungen zur Vorlesung

Aufgabenbearbeitung

Phillip Raffeck, Florian Schmaus, Simon Schuster

Friedrich-Alexander-Universität Erlangen-Nürnberg
Lehrstuhl Informatik 4 (Verteilte Systeme und Betriebssysteme)

<https://www4.cs.fau.de>

Sommersemester 2020



Arbeitsrepository erstellen (I)

The screenshot shows the GitLab web interface for a project named "vezs20-vorgabe". The top navigation bar includes the GitLab logo, "Projects", "Groups", and "More" menus, along with a search bar and user profile icons. The left sidebar contains navigation options: "Project overview", "Details", "Activity", "Releases", "Repository", "Issues", "Analytics", "Wiki", "Snippets", and "Settings".

The main content area displays the project details for "vezs20-vorgabe" (Project ID: 9490). It shows 54 Commits, 1 Branch, 0 Tags, 389 KB Files, and 389 KB Storage. Below this, there is a section for "Auto DevOps" with a description: "It will automatically build, test, and deploy your application based on a predefined CI/CD configuration." and a link to "Learn more in the Auto DevOps documentation". An "Enable in settings" button is present.

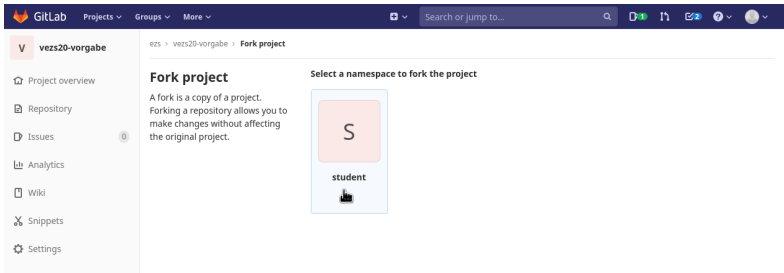
Below the Auto DevOps section, there are buttons for "History", "Find file", "Web IDE", and "Clone". The "Clone" button is highlighted in blue. Below this, there is a section for "add git usage instructions" by Phillip Raffeck, authored 1 day ago, with a commit hash of ea21cc33.

At the bottom, there are buttons for "README", "Add LICENSE", "Add CHANGELOG", "Add CONTRIBUTING", and "Set up CI/CD". Below these buttons is a table of recent commits:

Name	Last commit	Last update
01_git	add git usage instructions	1 day ago
README.md	no ascii art needs formatting	3 years ago
README.md		



Arbeitsrepository erstellen (II)



The screenshot shows the GitLab web interface. At the top, the navigation bar includes the GitLab logo, 'Projects', 'Groups', and 'More' menus, along with a search bar and utility icons. The left sidebar contains a navigation menu for the 'vezs20-vorgabe' project, including 'Project overview', 'Repository', 'Issues' (with a '0' badge), 'Analytics', 'Wiki', 'Snippets', and 'Settings'. The main content area displays the 'Fork project' dialog. It features a heading 'Fork project', a brief explanation: 'A fork is a copy of a project. Forking a repository allows you to make changes without affecting the original project.', and a section titled 'Select a namespace to fork the project'. A single namespace is shown in a light blue box: a pink square with the letter 'S' above the text 'student' and a small GitLab logo icon.



Arbeitsrepository erstellen (III)

The screenshot shows the GitLab web interface for a project named "vezs20-vorgabe". The left sidebar contains navigation options: Project overview, Repository, Issues (0), Merge Requests (0), Analytics, Wiki, Snippets, and Settings (selected). Under Settings, the sub-menu "General" is active, with options for Members, Integrations, Webhooks, and Repository.

The main content area is titled "Project avatar" and includes a "Choose file..." button and a "Save changes" button. Below this is the "Visibility, project features, permissions" section, which is currently expanded. A "Collapse" button is visible on the right. The section contains the following settings:

- Project visibility:** A dropdown menu is set to "Private". Below it, a note states: "The project is accessible only by members of the project. Access must be granted explicitly to each user."
- Issues:** A section header followed by "Lightweight issue tracking system for this project". A toggle switch is turned on, and a dropdown menu is set to "Only Project Members".
- Repository:** A section header followed by "View and edit files in this project". A toggle switch is turned on, and a dropdown menu is set to "Only Project Members".
- Merge requests:** A section header followed by "Submit changes to be merged upstream". A toggle switch is turned on, and a dropdown menu is set to "Only Project Members".
- Forks:** A section header followed by "Allow users to make copies of your repository to a new project". A toggle switch is turned off.



Arbeitsrepository clonen

The screenshot shows the GitLab web interface for a project named 'vezs20-vorgabe'. The top navigation bar includes the GitLab logo, 'Projects', 'Groups', and 'More' menus, along with a search bar and utility icons. The left sidebar contains a navigation menu with options like 'Project overview', 'Details', 'Activity', 'Releases', 'Repository', 'Issues', 'Merge Requests', 'Analytics', 'Wiki', 'Snippets', and 'Settings'. The main content area displays the project details, including the project name, ID (9649), and statistics (54 Commits, 1 Branch, 0 Tags, 276 KB Files, 276 KB Storage). Below this, there is a section for 'Auto DevOps' with a description and an 'Enable in settings' button. The 'Clone' button is highlighted, and a dropdown menu is open, showing 'Clone with SSH' (git@gitlab.cs.fau.de:student) and 'Clone with HTTPS' (https://gitlab.cs.fau.de/stu). Below the clone options, there is a table of repository files and a commit history table.

student > vezs20-vorgabe > Details

vezs20-vorgabe Project ID: 9649 🔔 ☆ Star 0 🍴 Fork 0

↔ 54 Commits 🌿 1 Branch 🏷️ 0 Tags 📁 276 KB Files 💾 276 KB Storage

Vorgabe für VEZS 2020

Forked from ezs / vezs20-vorgabe

Auto DevOps ✕
It will automatically build, test, and deploy your application based on a predefined CI/CD configuration.
[Learn more in the Auto DevOps documentation](#)

master History Q Find file Web IDE 📄 Clone ▾

test
Phillip Raffeck authored 1 day ago

Name	Last commit	Last update
01_git	test	1 day ago
README.md	no ascii art needs formatting	3 years ago

Clone with SSH
git@gitlab.cs.fau.de:student

Clone with HTTPS
https://gitlab.cs.fau.de/stu

Neuen Branch für Abgabe erstellen

```
student@host:~/vezs2020 %git clone git@gitlab.cs.fau.de:student/vezs20-vorgabe.git
Cloning into 'vezs20-vorgabe'...
remote: Enumerating objects: 321, done.
remote: Counting objects: 100% (321/321), done.
remote: Compressing objects: 100% (132/132), done.
remote: Total 321 (delta 162), reused 315 (delta 160), pack-reused 0
Receiving objects: 100% (321/321), 110.65 KiB | 1.38 MiB/s, done.
Resolving deltas: 100% (162/162), done.
student@host: /vezs2020 %cd vezs20-vorgabe
student@host:~/vezs2020/vezs20-vorgabe %git checkout -b aufgabe2
Switched to a new branch 'aufgabe2'
student@host:~/vezs2020/vezs20-vorgabe %git push --set-upstream origin aufgabe2
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: To create a merge request for aufgabe2, visit:
remote:   https://gitlab.cs.fau.de/student/vezs20-vorgabe/-/merge\_requests/new?merge\_request%5Bsource\_branch%5D=aufgabe2
remote:
To gitlab.cs.fau.de:student/vezs20-vorgabe.git
* [new branch]      aufgabe2 -> aufgabe2
Branch 'aufgabe2' set up to track remote branch 'aufgabe2' from 'origin'.
```

⇒ **eigener Branch pro Aufgabenblatt**



Abgabe per Merge Request (I)

GitLab Projects Groups More

student > vezs20-vorgabe > Merge Requests

Project overview

Repository

Issues 0

Merge Requests 0

Analytics

Wiki

Snippets

Settings

You pushed to **aufgabe2** 1 minute ago

Create merge request

Merge requests are a place to propose changes you've made to a project and discuss those changes with others

Interested parties can even contribute by pushing commits if they want to.

New merge request

New merge request

⇒ muss im **geforkten Arbeitsrepository** erfolgen



Abgabe per Merge Request (II)

The screenshot shows the GitLab web interface for creating a new merge request. The breadcrumb path is 'student > vezs20-vorgabe > Merge Requests > New'. The left sidebar contains navigation options: Project overview, Repository, Issues (0), Merge Requests (0), Analytics, Wiki, Snippets, and Settings. The main content area is titled 'New Merge Request' and features two dropdown menus for 'Source branch' and 'Target branch'. The source branch is set to 'student/vezs20-vorgabe' and the target branch is 'ezs/SS20/group42'. Below these, the author information shows a user named 'test' (Student) who authored the request 1 day ago, with the commit ID '195455fa'. A green button labeled 'Compare branches and continue' is visible at the bottom of the form.

Source: Arbeitsrepository

Target: Abgaberepository



Abgabe per Merge Request (III)

GitLab Projects Groups More

student > vezs20-vorgabe > Merge Requests > New

New Merge Request

From `student/vezs20-vorgabe:aufgabe2` into `ezs/SS20/group42:master` [Change branches](#)

Title

Start the title with **WIP:** to prevent a **Work In Progress** merge request from being merged before it's ready.

Description Write Preview

Describe the goal of the changes and what reviewers should be aware of.

Markdown and quick actions are supported [Attach a file](#)

Merge options

- Delete source branch when merge request is accepted.
- Squash commits when merge request is accepted.

Contribution Allow commits from members who can merge to the target branch. [About this feature](#)
Not available for private projects

Commits 3 **Changes** 0

