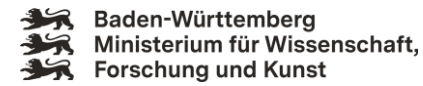


bwJupyter Community Meeting

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Scientific Computing Center (SCC)
12.10.2026



1. Bestehende Features
2. Einblick in neue Features
3. Ausblick und geplante Änderungen
4. Feedbackrunde

Bestehende Features

Das zeichnet bwJupyter aus



Dienst

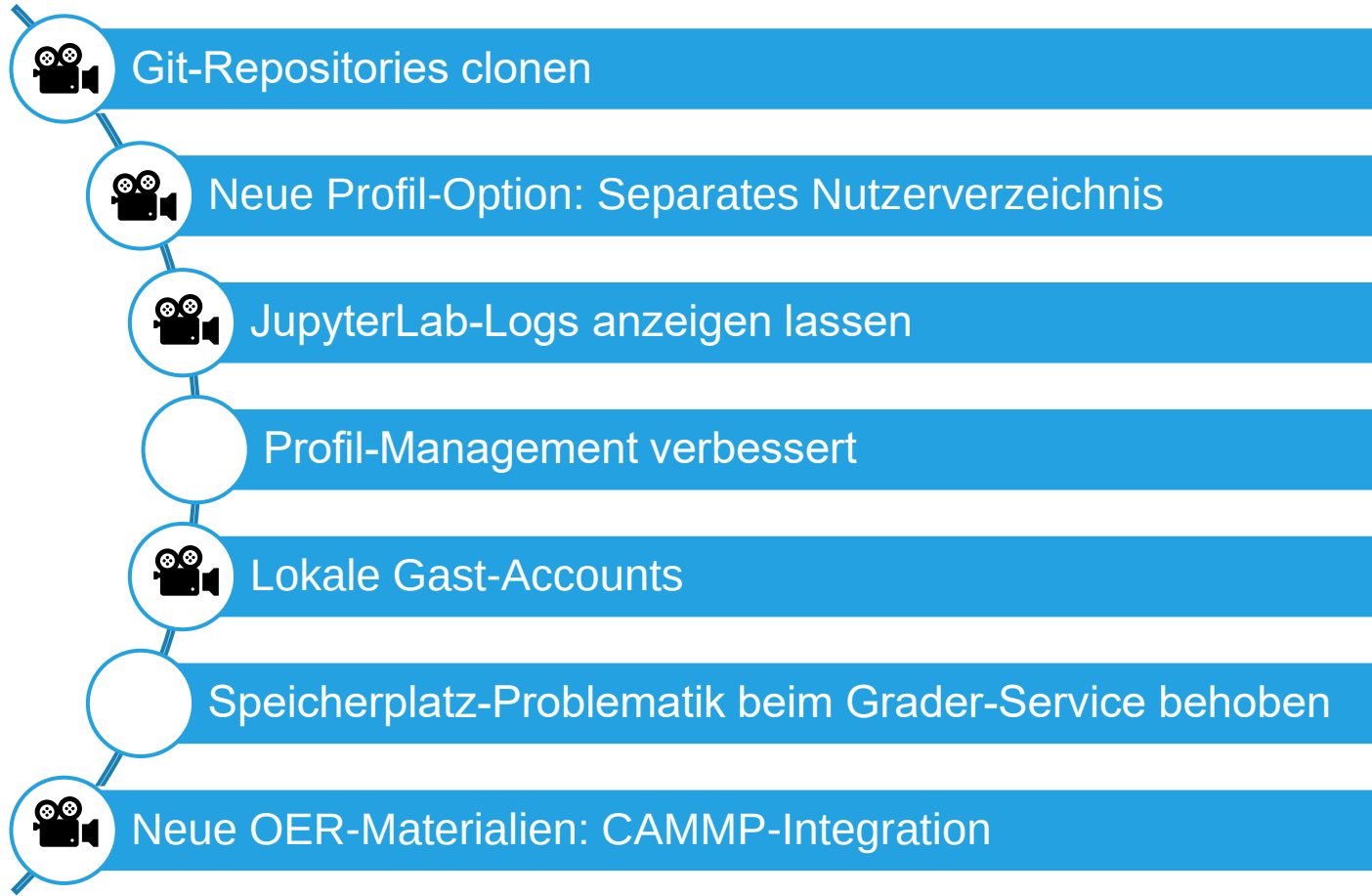
-  Leicht zugänglich und geräteunabhängig
-  Begleitmaterialien für Dozierende
-  Eigene Profile für Dozierende
-  Schnelles und unkompliziertes Abgabesystem
-  Umfassendes und automatisches Bewertungssystem
-  Nutzung von Rechenpower (CPU, RAM, GPU)
-  Bereitstellung gängiger Pakete und Tools (z.B. PyTorch)
-  Kollaboratives Arbeiten und Gruppenarbeit in Echtzeit
-  Zugriff auf Lehr- und Lernmaterialien (ZOERR)
-  KI-Assistent

Projekt

-  Schneller Support
-  Offen für Feedback und Verbesserungsvorschläge
-  Transparente Entwicklung und Nutzung

Einblick in neue Features

Überblick



Changelog	
2026-09-25	Update Profile: bwJupyter - Java Improved
The profile bwJupyter - Java now uses OpenJDK 25 (LTS), instead of OpenJDK 21. Also, the Java kernel got updated to the latest version to include several bug fixes. Migration: If you already have an existing profile based on bwJupyter - Java, you can migrate to the new version by editing your profile and switching from Provide a custom Docker image to Select Docker image from an existing profile to effectively re-select the Java profile.	
2026-09-14	Additional OERs provided by CAMMP Added
CAMMP (Computational and Mathematical Modeling Program) is a project that teaches mathematical modeling through a wide range of hands-on workshops based on real-world problems. Visiting the page Open Educational Resources allows users to run their workshops. After starting the server, the workshop will be automatically downloaded into the user directory. You can find more information about CAMMP on our news page and at https://www.cammpaonline/.	
2026-08-19	JupyterLab Update Improved
To include several new features and bug fixes, we bumped JupyterLab from v4.4.0 to v4.6.2 (see JupyterLab changelog). If you are starting a default profile through the profile section page, you will automatically use the updated version. If you are a lecturer and want to use the new version in existing profiles, you have to re-select the base profile in the profile settings.	
2026-08-04	CSV Export, New Mount Option, and more Added
With this smaller update, we are delivering features requested by lecturers over the last couple of weeks. • Grader Service Update: We updated the grader service from 0.12.0 to 0.12.5, which includes several bug fixes. • View Groups: As a profile owner and collaborator, you can now view all groups created for the profile and their members, showing the names, JupyterHub usernames, and email addresses. • CSV Exports: Lecturers can now export the users' information and group memberships as a CSV. • New Profile Option: Lecturers can now turn off the option to mount the personal home directory. Instead, profile-bound storage is used and can only be accessed when running the specific profile.	
2026-08-02	Increased Quota for Submissions and Assignments (Grader Service) Fixed
In the past couple of days and weeks, several students and lecturers faced an annoying situation due to being out of disk storage. When interacting with the grader service (e.g., downloading an assignment or submission), the grader service stores the files in the personal home directory. Since each home directory is limited to 2GB, large assignments or multiple smaller submissions occupy a large part of it. As of today, these files are no longer stored in the personal home directory and, therefore, will no longer count towards the 2GB limit. However, the files are still available at their original location (i.e., <code>~/work/lectures</code>), so no changes are necessary. Please note that, from now on, the submissions and assignments are from now on bound to the profile. Whenever the profile is deleted (manually or due to deprovisioning), the files will be deleted as well!	

Einblick in neue Features

Profil-Management verbessert



Profil kopieren

Copy Profile "Test"

Create a copy of this profile with the selected options, resulting in a new profile.

Important: If your profile has a custom storage quota, please copy the profile **without** copying the files. Then, get in touch with the support to request a new quota for the new profile.

Content that won't be copied

The following content will not be copied from the original profile to the new profile:

- Profile expiration date
- Assignments and submissions
- Profile ID and link to the profile
- User membership of users who clicked on the profile
- Groups
- Custom storage quota

Options to be copied

Select which settings should be copied to the new profile. Please **do not reload or leave the page** while the copy process is running.

- ☒ Profile Settings (e.g., enabled features, JupyterLab environment)
Besides immutable profile settings (e.g., Git repository), the rest of the settings can be edited after copying the profile.
- ☒ Collaborators
Collaborators of the current profile will be automatically transferred to the copied profile.
- ☒ Files inside the shared directory `__shared`
Depending on the directory size, copying the files may take some time.
- ☐ Files inside the collaborators directory `__collaborators`
Depending on the directory size, copying the files may take some time.

New Profile Name

Test - Copy

Provide a profile name for the new profile.

Profil-Besitzer wechseln

Change Owner "Test"

Promote another user to be the new profile owner. Once you change the ownership, you can no longer edit any profile settings.

New Profile Owner

e.g., stu0000

Please enter the JupyterHub username of the new profile owner.

Actions

The following action will be executed once ownership is transferred to the new owner.

- ☐ Leave the profile.
The profile will no longer appear in your profile list. To access the profile again, you have to click on the shared profile link.
- ☐ Keep the profile in my profile list.
You can still start the profile as a regular user.
- ☒ Keep the profile in my profile selection list and add me as a collaborator.
You will automatically become a profile collaborator. However, please note that the new owner may remove you as a collaborator at any time.

Change Owner

Einblick in neue Features

Profil-Management verbessert

View Groups "RTC-Test"

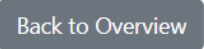
The following cards shows the group memberships.



Group #5238

Paul Hoger
ijr7375 · yo2370@partner.kit.edu

Paul Hoger
ivv7386 · paul.hoger@kit.edu

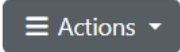


Gruppen-Ansicht and -Export

Collaborating Profiles

You have been added as a collaborator the the following profiles. Depending on the profile's settings, you have access to certain profile actions.

Test
Test-Profil.



-  Export Submissions
-  Configure Auto-Grading

Mehr Rechte für Collaborators

Einblick in neue Features

Demos



Live Demo

Ausblick und geplante Änderungen

Wie geht es weiter?



Kurzfristig

- Kooperationsverträge verschicken
- Profil-Aliase einführen
- Update auf JupyterHub 6
- bwSync&Share-Integration
- Austausch mit JupyterHub.nrw

Mittelfristig

- Inaktive Nutzende deprovisionieren
- LMS-Integration mittels LTI ausprobieren
- KI-Assistent aktualisieren (vom Chat-Bot zu Agenten)
- Fein-granulares Rollen- und Berechtigungssystem für Profile
- Einstellungen für Gruppen (Gruppen-Größe und Gruppen-Import)

Langfristig

- Erprobung E-Prüfungen
- Eigene Container Image Registry für Dozierende
- Neue Profile bereitstellen (z.B. Kotlin, Rust, JupyterGIS, ROS, VS Code)
- „Baukasten“ für Docker Images

Feedbackrunde

Das wünsche ich mir noch!

Feedbackrunde

1. Anonymisiertes Feedback geben (10 Minuten)
 - Das finde ich gut.
 - Das sollte verbessert werden.
 - Das ist mir unklar.
 - Das fehlt mir noch.
2. Gemeinsame Besprechung und Diskussion (5 Minuten)

Whiteboard unter
<https://tinyurl.com/bwj-board>



Empfehlen Sie bwJupyter weiter!

Eine letzte Bitte...



Sprechen Sie **mit Kolleginnen und Kollegen** über bwJupyter und weisen Sie Ihre **E-Learning-Abteilung** darauf hin, dass es bwJupyter gibt.

Insbesondere, wenn Sie von einer der folgenden Hochschulen kommen:

- Hochschule Albstadt-Sigmaringen
- Technische Hochschule Ulm
- Hochschule Offenburg
- HTWG Konstanz
- Universität Konstanz
- Hochschule Ravensburg-Weingarten
- Universität Mannheim

428 Nutzende

 <https://bwjupyter.de>

 support@bwjupyter.de

