

Intermediate Course 2024/04/10: Advanced HPC and Data Management Topics@KIT

M. Mesiti, R. Barthel, P. Weisbrod, A. Baer

Supported by: L. P. Schuhmacher, H. Obermaier

All KIT, SCC



Before Starting:

- List of attendance:
 - Write your name, university and sign it
 - Entitlement of bwUniCluster → no *or*
Access to HoreKa → no
 - Write under „Notes“: „no access“

Before Leaving:

- Please fill the evaluation form:

The screenshot shows a web-based evaluation form titled "HPC in Baden-Württemberg" and "Dr. Robert Barthel". It is for the "Introductory Course 2023/2024: HPC and Data Management". The form includes sections for rating the lecture for beginners, rating the tutorials for beginners, and general commentaries. It also has a section for organizational aspects like registration, service, and coffee break. At the bottom, there is a section for affiliation type (student or employee) and a note about the need for more information for statistics.

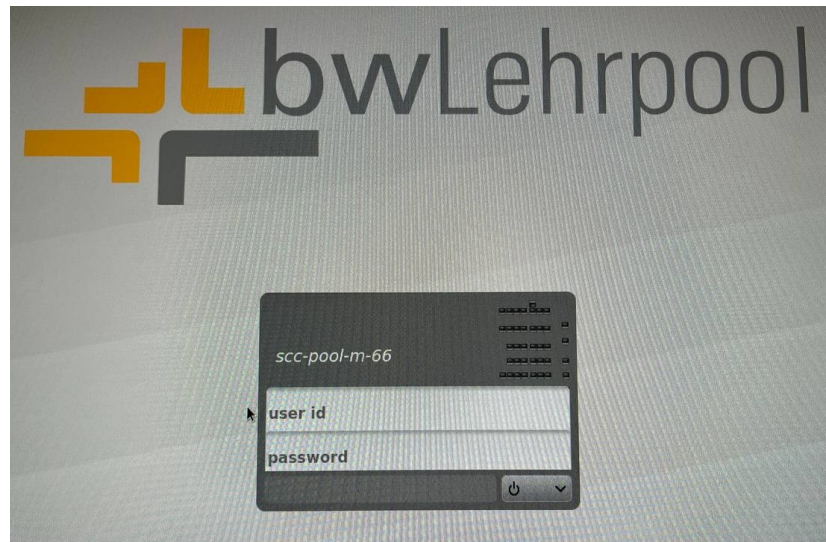
Header: HPC in Baden-Württemberg, Dr. Robert Barthel, Introductory Course 2023/2024: HPC and Data Management, KIT

Form fields include:

- Rating the lecture for beginners (1-8) with options: very good, very well, very high, very limited, very clear, too slow, very clearly, very adequate, very bad, very badly, very small, very high, very abstract, too fast, not at all, very inadequate.
- Rating the tutorials for beginners (1-8) with similar options.
- General Commentaries (1-2) with text input fields.
- Would you recommend this course to others? (very much, , , , not at all)
- Organization (1-4) with options: very good, very well, very high, very limited, very clear, too slow, very clearly, very adequate, very bad, very badly, very small, very high, very abstract, too fast, not at all, very inadequate.
- For our statistics, we need some more information (1-2) with options: male, female, other, PHD student, employee (but not PHD student).

Access Pool Computers (1)

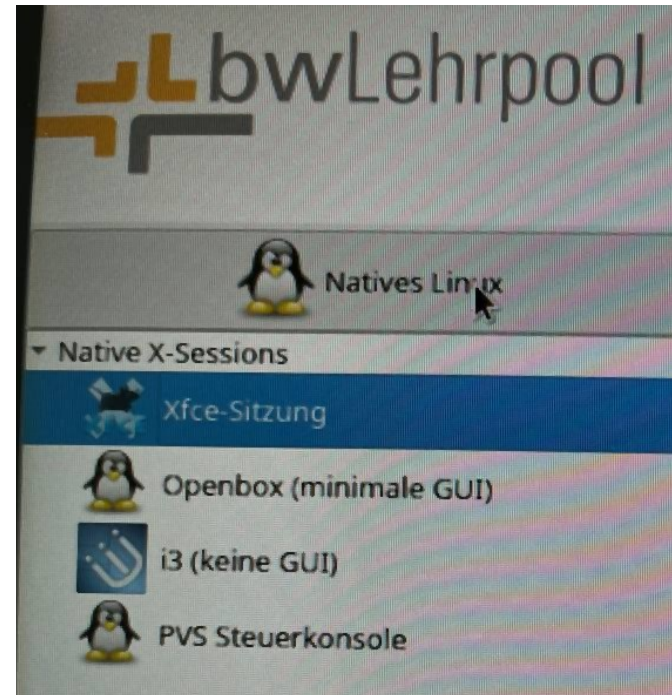
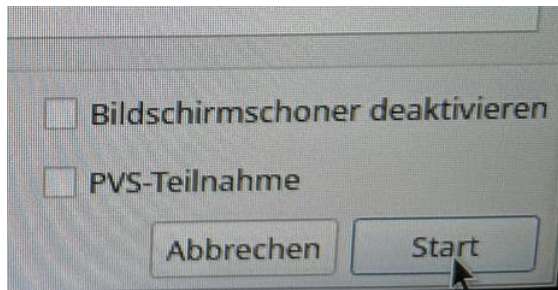
1. **Reboot** pool computer
2. While rebooting press **F12**
3. Choose from next menu 2nd line „**UEFI ...**“
4. Choose from next menu line „**bwLehrpool**“
5. Log in with your „User ID“ and home organization „password“
 - User ID = <university_accountname@<email-domain>
 - e.g.: KIT: `xy1234@kit.edu`
 - e.g.: Uni Stuttgart `ac123456@uni-stuttgart.de`



Access Pool Computers (2)

3. Choose „Natives Linux“
4. Choose from „Native X-Sessions“:
 - „Xfce-Sitzung“

5. Start Session



Where to get the slides and exercises?

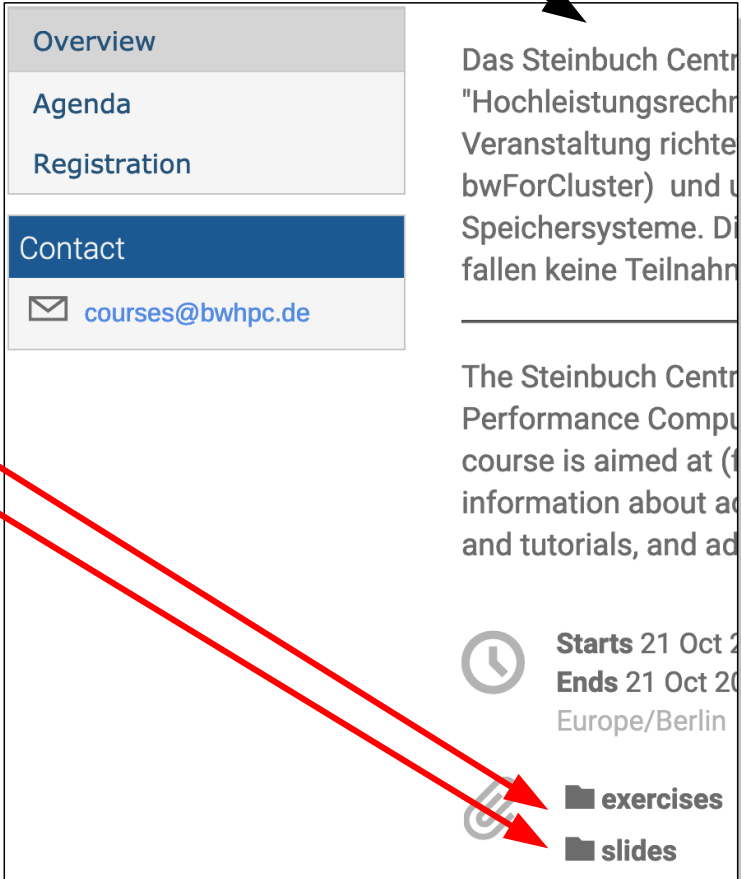
■ https://indico.scc.kit.edu/indico/e/hpc_course_2024-04-10

bwUniCluster: /opt/bwhpc/common/workshops/2024-04-10

HoreKa: /software/all/workshops/2024-04-10

■ exercises

■ sildes



Overview

Agenda

Registration

Contact

✉ courses@bwhpc.de

Das Steinbuch Centre for Computing (SCC) ist ein Zentrum für Hochleistungsrechnen (HPC) und Speichersysteme. Die Veranstaltung richtet sich an Anwender von bwUniCluster und bwForCluster und an Interessierte an HPC und Speichersystemen. Die Teilnahme ist kostenlos.

The Steinbuch Centre for Computing (SCC) Performance Computing course is aimed at (1) providing information about advanced HPC and storage systems, and (2) providing hands-on experience with HPC and storage systems.

 **Starts** 21 Oct 2024
Ends 21 Oct 2024
Europe/Berlin

 **exercises**

 **sildes**

Course Agenda – April 10th 2024

09:30	→ 10:50	Advanced Bash Scripting + Exercises
10:50	→ 11:00	Break
11:00	→ 12:30	Advanced Job Scripting + Exercises
12:30	→ 13:30	Lunch Break
13:30	→ 14:30	Adv. topics - Usage of bwHPC & HoreKa clusters
14:30	→ 14:45	Break
14:45	→ 16:00	Batch system: Best Practices (incl. parallel jobs)