

Introductory Course 2023/10/16: HPC and Data Management @KIT

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Supported by: H. Ibrahim & F. Bösert

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“

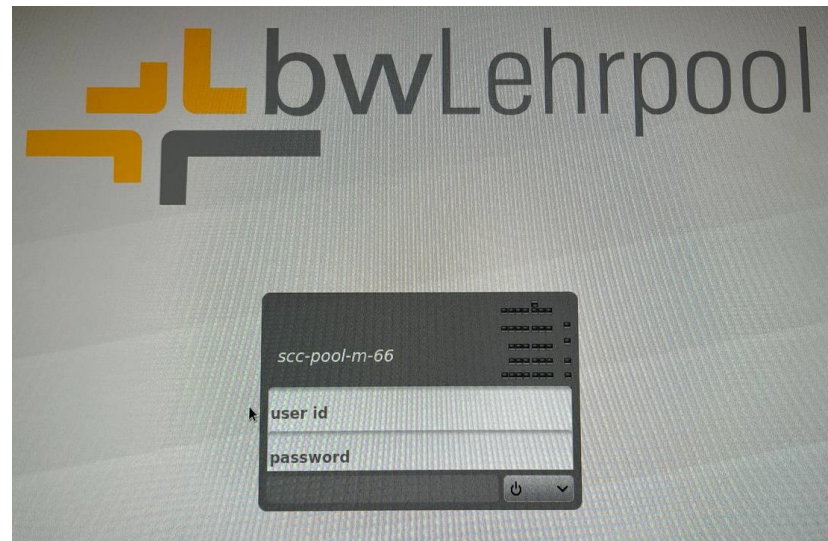
Before Leaving:

- Please fill the evaluation form:

The screenshot shows a web-based evaluation form titled "HPC in Baden-Württemberg" and "Introductory Course 2023/24". It includes a header with logos for the Leibniz Centre for Computing, Dr. Robert Barthel, and KIT. The form is divided into several sections: "Please rate the 'lecture for beginners' regarding the following aspects", "Please rate the 'tutorials for beginners' regarding the following aspects", "General Commentaries", "Would you recommend this course to others?", "Organisation", and "For our statistics, we need some more information". Each rating section contains a list of questions (e.g., "How do you rate the lecture for beginners as a whole?", "How is the lecture for beginners structured?", "Knowledge gain", "Contents", "Clarity", "Speed") and a set of checkboxes for ratings from "very good" to "very bad". The "General Commentaries" section has two text boxes for "In particular, I liked:" and "In particular, I did not like:". The "Would you recommend this course to others?" section has a set of checkboxes from "very much" to "not at all". The "Organisation" section has checkboxes for "Registration", "Service", "Coffee break", and "How were you informed about this course?". The "For our statistics, we need some more information" section has checkboxes for "Affiliation (type)" (student, PhD student, employee) and "Other".

Access Pool Computers (1)

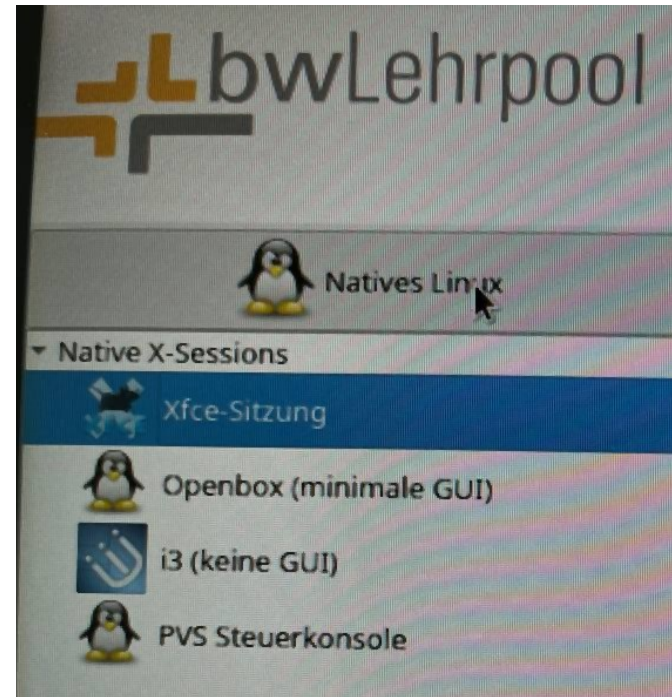
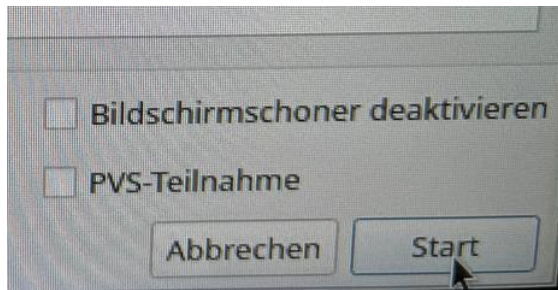
1. Reboot pool computer
2. Log in with your „User ID“ and home organization „password“
 - User ID = <university_accountname@<email-domain>
 - e.g.: KIT: `xy1234@kit.edu`
 - e.g.: Uni Stuttgart `ac123456@uni-stuttgart.de`



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?

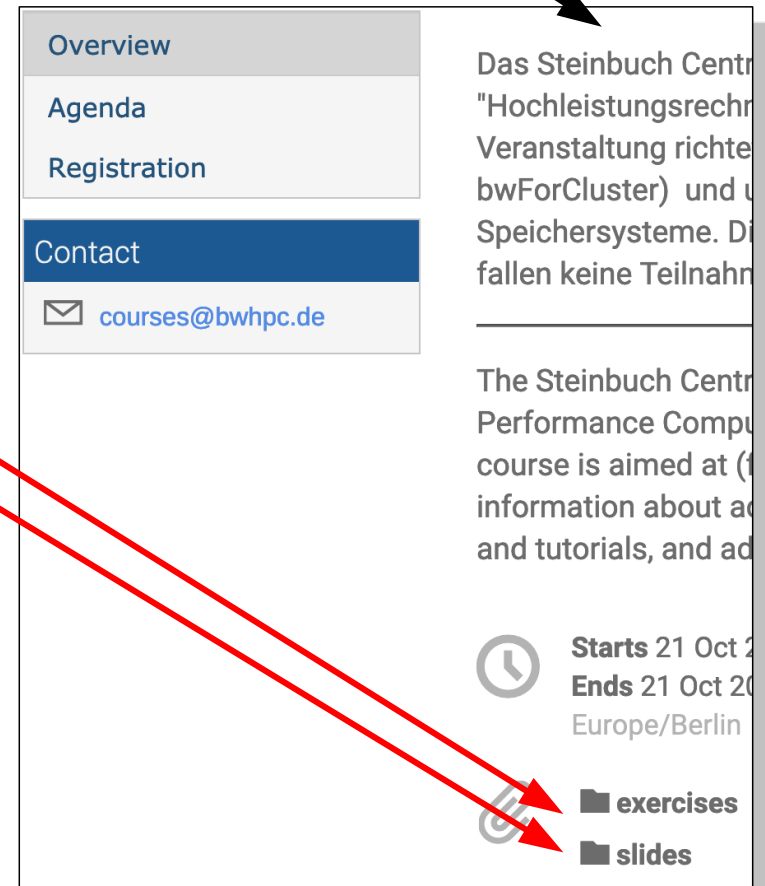
■ https://indico.scc.kit.edu/indico/e/hpc_course_2024-04-09

bwUniCluster: /opt/bwhpc/common/workshops/2024-04-09

HoreKa: /software/all/workshops/2024-04-09

■ exercises

■ slides



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 bwForCluster) und an Interessierte an 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

■ slides

Course Agenda – April 09th 2024

09:30	→ 10:00	bwHPC & NHR: Concept, Infrastructure and Support	🕒 30m	✎
10:00	→ 10:45	Access procedure: bwUniCluster 2.0, HoreKa, bwForClusters (JUSTUS 2, Helix, NEMO, BinAC) incl. exercises	🕒 45m	✎
10:45	→ 10:55	Break	🕒 10m	
10:55	→ 11:25	Hints for successful submitting procedure to the HPC cluster (Horeka)	🕒 30m	✎
11:25	→ 11:30	Break	🕒 5m	
11:30	→ 12:30	Linux Introduction (CLI, Editors, etc): Linux introduction + Permissions	🕒 1h	✎
12:30	→ 13:45	Lunch Break	🕒 1h 15m	
13:45	→ 14:20	Software Modules: UC2+HK	🕒 35m	✎
14:20	→ 14:25	Break	🕒 5m	
14:25	→ 15:40	Batch system introduction + Architecture incl. Exercise	🕒 1h 15m	✎
15:40	→ 15:45	Break	🕒 5m	
15:45	→ 16:25	File systems	🕒 40m	✎