



Intermediate Course: High Performance Computing (HPC) *in Baden-Württemberg*

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Universität Stuttgart

EBERHARD KARLS
UNIVERSITÄT
TÜBINGEN



KIT
Karlsruher Institut für Technologie



ulm university universität
uulm



Baden-Württemberg
MINISTERIUM FÜR WISSENSCHAFT, FORSCHUNG UND KUNST

Funding:

www.bwhpc.de

Before starting:

- List of attendance
 - Sign your name on list
 - Add your university account
 - Why? To include your account to access compute node reservation on bwUniCluster

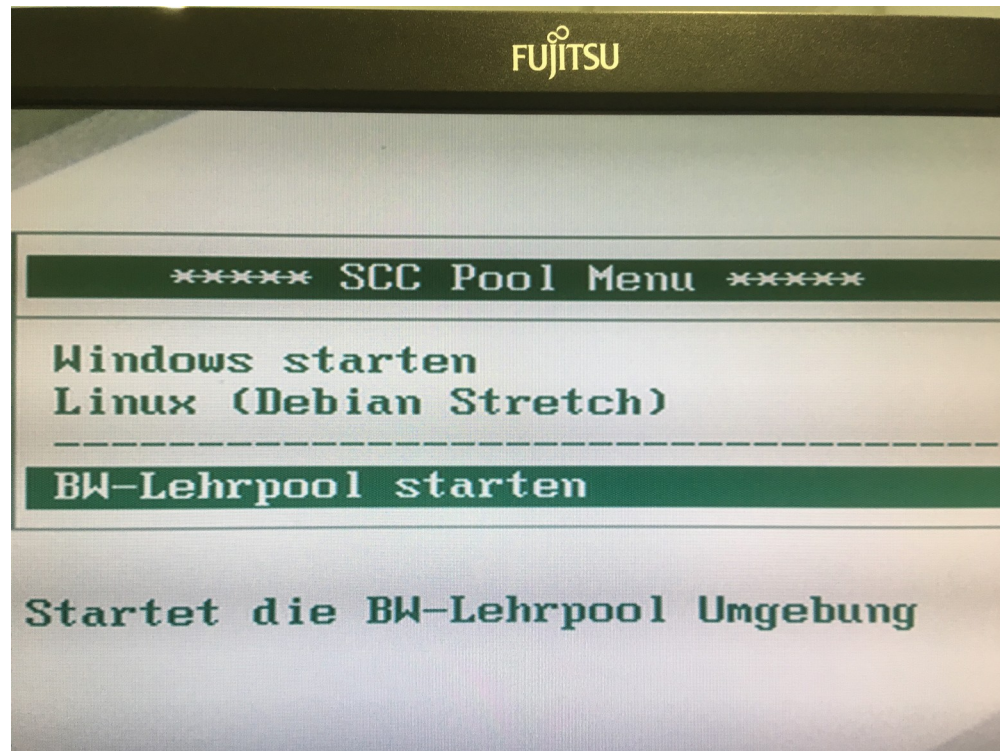
Before leaving:

- Please fill the evaluation form

Access Pool computers (1)

1. Reboot pool computer

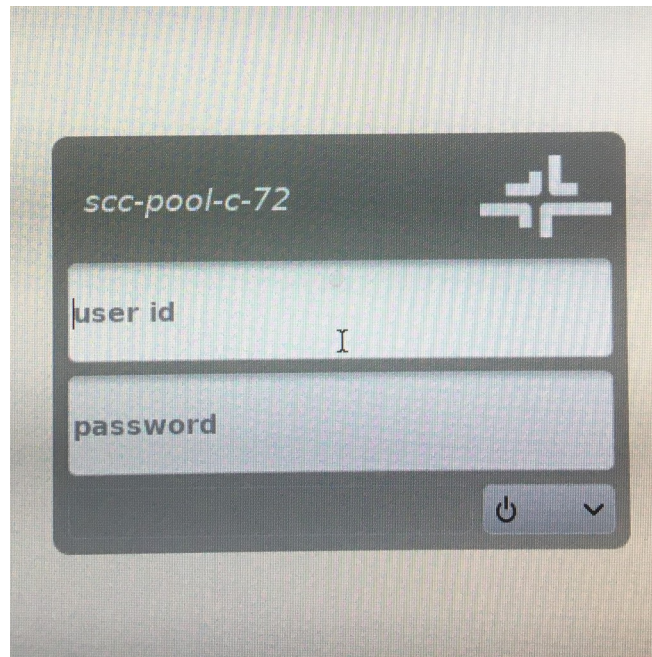
- At boot screen choose: „BW-Lehrpool starten“



Access Pool computers (2)

2. Log in with your „user id“ and „password“

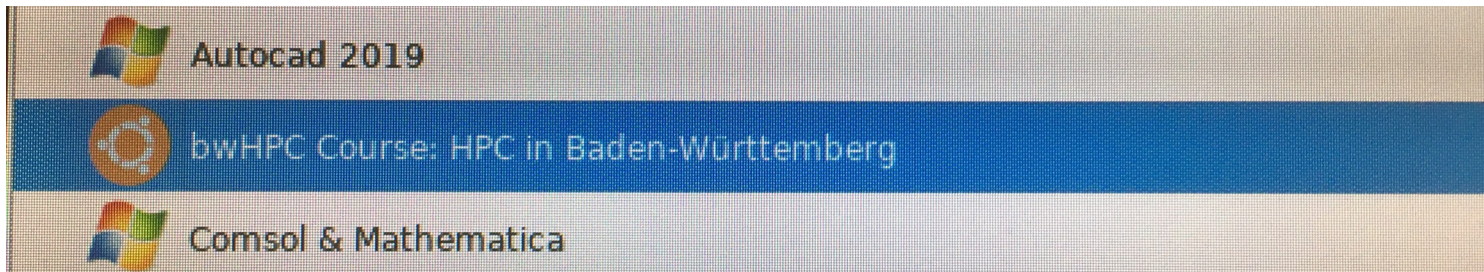
- User id: <university_accountname>@<email-domain>
 - e.g. KIT: xy1234@kit.edu
 - e.g. Uni Stuttgart: ac123456@uni-stuttgart.de



Access Pool computers (3)

3. Select & Load virtual machine „bwHPC Course“

→ Operational system is Ubuntu 19.04



→ Be patient: Starting may take longer since the whole OS is loaded from network

Where to get the slides and exercises?

- https://indico.scc.kit.edu/indico/e/bwhpc_course_2019-10-09 or
bwUniCluster: /pfs/data1/software_uc1/bwhpc/kit/workshop/2019-10-09

- Slides
- Exercises

The screenshot shows the Indico interface for an event. On the left, there is a navigation menu with the following items: 'Überblick / Overview' (highlighted), 'Agenda', 'Registrierung / Registration', and 'Formular / Form'. On the right, the main content area displays the event title 'Das Steinbuch Center for Computing (HPC) in Baden-Württemberg' and a description in German: 'Hochleistungsrechnen (zukünftigen) Nutzen für die Landesforschungshochschule... Zugang und Nutzung... vormittags an Einstiegsworkshop... Teilnehmerzahl (35)'. Below this, there is an English translation: 'The Steinbuch Center for Computing (HPC) in Baden-Württemberg... (bwUniCluster, bwUniCloud)... about access and use... morning beginners workshop... limited to 35. No cost...'. At the bottom right, there is a clock icon and the text 'Starts 6 Dec 2019', 'Ends 6 Dec 2019', and 'Europe/Berlin'. At the very bottom, there is a button labeled 'Slides exercises' with a downward arrow icon.

Course Agenda – October 9th 2019

Time	Presenter	Title
09:30	R. Barthel	Advanced Bash Scripting incl. Exercises
10:45		Coffee break
11:00	R. Barthel	Advanced Job Scripting incl. Exercises
12:15		Lunch break
13:15	S. Braun	Adv. Topics – Usage of bwHPC & ForHLR clusters
13:45	R. Barthel	Batch System: Best Practices (incl. parallel jobs)
14:30		Coffee break
14:45	H. Häfner	Compile, Makefile
15:30		End