LUIS HPC Cluster Documentation

This document is meant to facilitate your work with the cluster system of Leibniz University Hannover. Please take some time to read through this document. **If you think you have absolutely no time, read at least I am a new user - Quick Start**.

Regard this documentation and the FAQ as a necessary complement to the cluster itself. If you have questions not answered here, or if something remains unclear, you may always contact the cluster team. See how to get support on how to create a case that helps us help you without unneccessary delays.

User's guide Export to PDF

- About the LUIS compute systems
- How to connect to the cluster
- File systems
  - Handling large datasets within the cluster
- Transferring data to/from the cluster
  - Managing files in cloud storage using Rclone
  - Migrating files into the archive
- Submitting SLURM jobs
- Modules & Application software
  - Compiling software yourself using EasyBuild
  - Conda usage
- Apptainer on LUIS cluster
- Remote visualization for interactive 3D work
- When your work is done

Cluster resources and services

- Computing hardware
- Available software
- Cluster web portal

    - Remote visualization for interactive 3D work
    - Jupyter/Lab on LUIS cluster
    - Code-Server (VS Code) on LUIS cluster
- JupyterHub for teaching on LUIS cluster
- LUHKI-HPC AI-powered cluster support assistant
- System status

Help and Support

- Frequently Asked Questions (FAQ)
- How to get support
- Getting started - Cluster Introductory Course
- Citing the compute cluster

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