## Access and Overview of HPC Systems

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**High Performance Computing**
### SuperMUC and SuperMUC-NG

#### SuperMUC Phase 1

**END OF LIFE**

#### Phase 2

- **login:** hw.supermuc.lrz.de
- **queue:** micro, general, test, big

#### File System

- **$HOME**
- **$WORK**
- **$SCRATCH**

**detailed node status:** Phase 2

#### SuperMUC-NG:

- **HOME, WORK, SCRATCH**
- **SLURM**
- **login:** skx.supermuc.lrz.de

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### Linux Cluster

#### CoolMUC-2

- **login:** lxlogin5-7.lrz.de
- **partitions:** mpp2_batch, mpp2_inter
- **queue:** serial

#### CoolMUC-3

- **login:** lxlogin8.lrz.de
- **partitions:** mpp3_batch, mpp3_inter

#### IvyMUC

- **login:** lxlogin10.lrz.de
- **partitions:** ivymuc

#### SLURM

- **SLURM waiting times and detailed node status**

### Cloud and other systems

#### Open Nebula

**UP**

#### GPU Cloud

**UP**

#### DGX-1

**UP**

#### DGX-1v

**UP**

#### RStudio Server

**UP**

**Details:**

- RStudio Server (LRZ Service)
- Software for HPC

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### Message of the Day

*Details:*

- SuperMUC-NG
- Software for HPC
SuperMUC-NG Status
See https://www.lrz.de/aktuell/ali00757.html for details.

SuperMUC-NG Friendly Users
Your old UserIDs are not valid for SuperMUC-NG!
You will have only ONE single UserID for all the projects you are working with. Accordingly, you have only a single HOME directory. Above that, you will also have only a single SCRATCH directory. As usual, after you have logged into SuperMUC-NG the paths to your HOME and SCRATCH directories are set in the environment variables $HOME and $SCRATCH. Your accessible WORK directories are listed in $WORK_LIST.

Note that WORK or SCRATCH may not be accessible from the start. The same applies to SLURM and available queues.

For more details see: https://doku.lrz.de/display/PUBLIC/Operational+Concept

We propose that you start by migrating your HOME directory and compile your code.

For data migration between SuperMUC and SuperMUC-NG see:
https://doku.lrz.de/display/PUBLIC/Data+Migration+from+SuperMUC+to+SuperMUC-NG

The documentation for SuperMUC-NG can be accessed via:
https://doku.lrz.de/display/PUBLIC/SuperMUC-NG

Report immediate problems via the servicedesk: https://doku.lrz.de/display/PUBLIC/Servicedesk+for+SuperMUC-NG
and don’t forget to use the ‘SuperMUC-NG’ keyword in the short description.

Please contact your mentor to discuss further questions and the progress of your project.

More Links
- Access and Overview of HPC Systems
- Cluster Node Housing
- Courses, Training and Events for HPC
- Grid Computing
- HPC Application Labs
- LRZ Compute Cloud
- Linux Cluster
- Public Relations for HPC
- RStudio Server (LRZ Service)
- SLURM Workload Manager
- Software for HPC
- SuperMUC-NG
- Support for HPC and Big Data
- User Guides for HPC
- Consulting for HPC and BigData Services at LRZ
- Tuning and Optimization for HPC
- SuperMUC NG SLURM Status

Services
- SuperMUC-NG
- Linux Cluster
- Software for HPC
- RStudio Server (LRZ Service)
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