High Performance Computing

Access and Overview of HPC Systems

Status
### SuperMUC and SuperMUC-NG

#### SuperMUC Phase 1
- **Phase 2**
  - login: hw.supermuc.lrz.de
  - queue: micro, general, test, big

#### File System
- $HOME: UP
- $WORK: UP
- $SCRATCH: UP

**detailed node status:** Phase2

### SuperMUC-NG:
- **HOME, WORK, SCRATCH**: FRIENDLY USERS
- **SLURM**: FRIENDLY USER

**login:** skx.supermuc.lrz.de

### Linux Cluster

#### CoolMUC-2
- login: lxlogin5-7.lrz.de
- partitions: mpp2_batch, mpp2_inter
- queue: serial
- Teramem queue: teramem_inter

#### 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**

- SuperMUC-NG
- Software for HPC
SuperMUC and SuperMUC-NG

**SuperMUC-NG Status**
See [https://www.lrz.de/aktuell/ali00757.html](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](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](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](https://doku.lrz.de/display/PUBLIC/SuperMUC-NG)

Report immediate problems via the servicedesk: [https://doku.lrz.de/display/PUBLIC/Servicedesk+for+SuperMUC-NG](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.

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**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)
| Cluster Node Housing | Grid Computing | Remote Visualisation |