## 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: Phase2**

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

### 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

### Message of the Day

Details:

- 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

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**Services**

- [SuperMUC-NG](#)
- [Linux Cluster](#)
- [Software for HPC](#)
- [RStudio Server (LRZ Service)](#)