# Access and Overview of HPC Systems

<table>
<thead>
<tr>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>
### 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:**
- FURDY 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
- 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

### Message of the Day

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

**Lenovo schedules a system reservation on March 29, 11 am, for 4 hours.**

1. The reason for the outage is to make OPA/GPFS configuration to address an issue with recovery from an OPA Interface failure on a Storage (NSD) Server: Increase TCP MTU size from 2K to 4K
2. Receive Packet Steering (RPS) tuning on NSD Servers (HPPFS filesystems only i.e. SCRATCH/WORK)

The reservation also allows time for adequate testing of this change.

A short outage of the PROJECT/HOME filesystem will be also required while the MTU size is changed.

We estimate PROJECT/HOME will be available again by 11:30am from the Login nodes.

---

**SuperMUC-NG Friendly Users**

Your old UserID 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.

---

**SuperMUC-NG Friendly User Period started**

After the Friendly User Period the system will start normal user operation. Duration of the Friendly User Period will be at least 4 weeks.

---

**SuperMUC Phase2 frequency capping removed**

See [https://www.lrz.de/aktuell/ai00735.html](https://www.lrz.de/aktuell/ai00735.html) for details.

---

**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

## Services

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SuperMUC-NG</td>
<td>Linux Cluster</td>
<td>Software for HPC</td>
<td>RStudio Server (LRZ Service)</td>
</tr>
<tr>
<td>Cluster Node Housing</td>
<td>Grid Computing</td>
<td>Remote Visualisation</td>
<td></td>
</tr>
</tbody>
</table>