

## home directory

- The home directory is located at `/home/your_login_name`
- The home directory is a „per user“ directory
- The home dir has a maximum size of **200 Gigabyte** and a file number limit of **2 mio files**.
- The home is excluded from backup service but has a snapshot over the **last 14 days**.  
The snapshot data are located at `$HOME/.snapshot`
- The home dir is available (read & write) on all CPU-, GPU- and interactive node.

Please use Your home dir only for basic work - not for saving huge amount of data!  
Dont go over the above limit - check Your limits frequently with `show_user_info`.

## scratch directory

- The scratch directory is located at `/scratch/your_login_name`
- The scratch directory is a „per user“ directory.
- The sratch directory is only designed for temporary job data.
- The scratch dir has a maximum size of **5 Terabyte** and a file number limit of **2 mio files**.
- The scratch dir is NOT included in a backup!
- The scratch dir is available (read & write) on all CPU-, GPU- and interactive node.

Please use Your scratch dir for Your data generated during job runtime and pre/post processing.  
Dont use this scratch dir for long term storage of any data!  
This scratch dir is designed for high **IOPS** performance

## data exchange directory

- the exchange directory is located at `/scratch/aaa_exchange/`
- it is only designed for data exchange of different users
- the data exchange directory is NOT included in the backup
- the data exchange directory is not designed for long tern storage
- all data (files & directories) will be removed **40 days after generation**

## project (group) directory

- The project directory is located at `/groups/your_group_name`
- The project directory is a „per group“ directory
- The project directory has a maximum size of **1 Terabyte** and a file number limit of **1 mio files**.
- The project directory is NOT included in a backup!
- The project directory is available
  - a) readonly on all CPU- and GPU- nodes
  - and
  - b) read/writable on Login- and interactive nodes.
- The project directory is designed for collaboration purposes for a research group or subdepartment - not for data exchange
- for exchange of data please use the **data exchange directory**

## archive directory

- The archive directory is located at /data2/hpcuser/your\_login\_name
- The archive directory is a „per user“ directory
- The archive dir has a default size of **100 Gigabyte** and a file number limit of **200.000 files** - please contact [hpc@tu-ilmenau.de](mailto:hpc@tu-ilmenau.de) for higher limits
- The archive dir is included in the central backup (weekly incremental)!
- The archive dir is available (read & write) only at the **transfer nodes!**

Please use Your archive dir for saving representative data weekly or monthly. We recommend to setup Your archive file as a tar or zip file together with meta data description files. Please contact our data steward [Data Steward](#) to this topic. You can also save code or other data at our [Gitlab Service](#) or in our [NextCloud Service](#)

Please contact [hpc@tu-ilmenau.de](mailto:hpc@tu-ilmenau.de) for more details and questions.



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