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 for temporaray 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

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
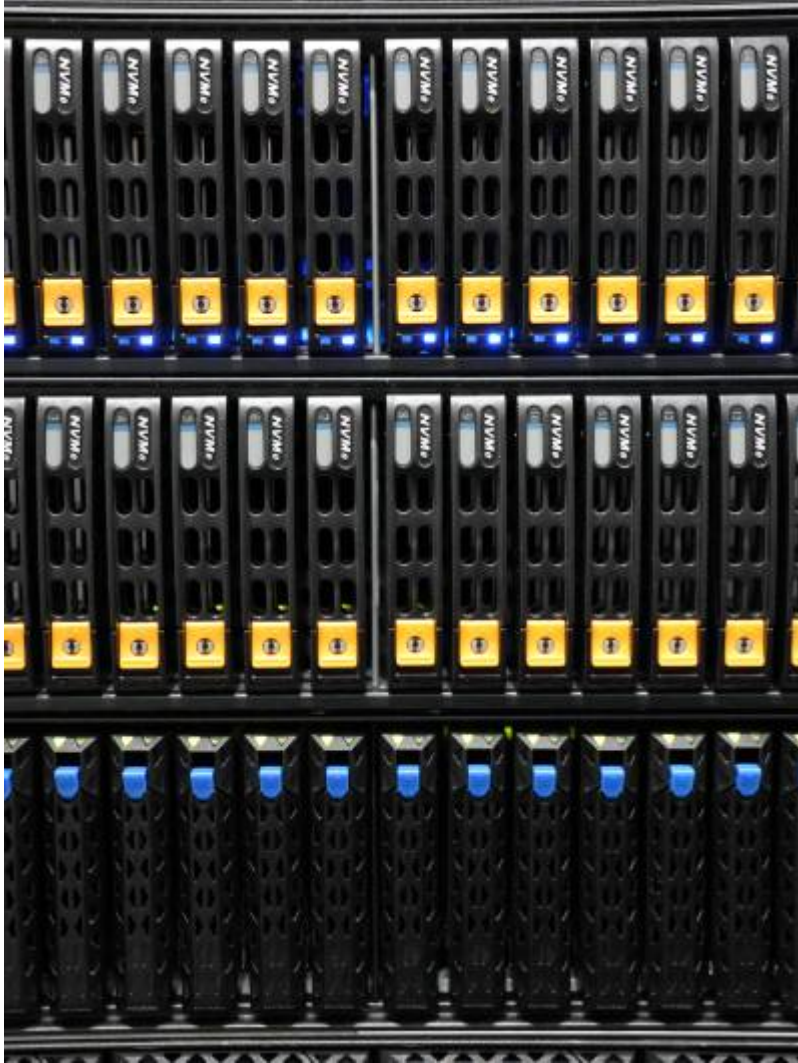
archive directory

- The archive directory is located at /data2/hpcuser/your_login_name
- The archiv 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**.
- 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 for more details and questions.

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