LIÈGE université
GIGA

GIGA mass storage

GIGA Doctorate School

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Outline

- Baseline information
- Space available for user
- Backup/Archive

Baseline information

Professional infrastructure for data storage:

Huge Capacity

Secure

Reliable

Baseline information

Professional infrastructure for data storage:

- Large capacity:

  1.5 PetaBytes

Baseline information

Professional infrastructure for data storage:

- Large capacity:

  1.5 PetaBytes

Size	Songs
5MB	1
500GB	100,000
1.5 PB	300,000,000

Baseline information

Professional infrastructure for data storage:

- Secure:

  Access limited and protected

Baseline information

Protected

- Inside university network
- Firewall

Limited

- Need both password and autorisation
- Each folder can have restricted access

Baseline information

Professional infrastructure for data storage:

- Secure: Rules to store human/personal data

=> Have all certification required to store human data

More information on the General Data Protection Regulation (GDPR) on Monday the 26th October

Baseline information

Professional infrastructure for data storage:

- Reliable:

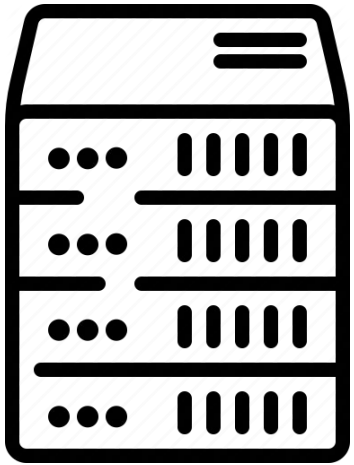
  Professional disk (material and writing/RAID)

  Backed up regularly

Baseline information

- Available to all GIGA members

- Link to the Cluster of the GIGA



(More information on Monday 19th October)

Space available

3 spaces available:

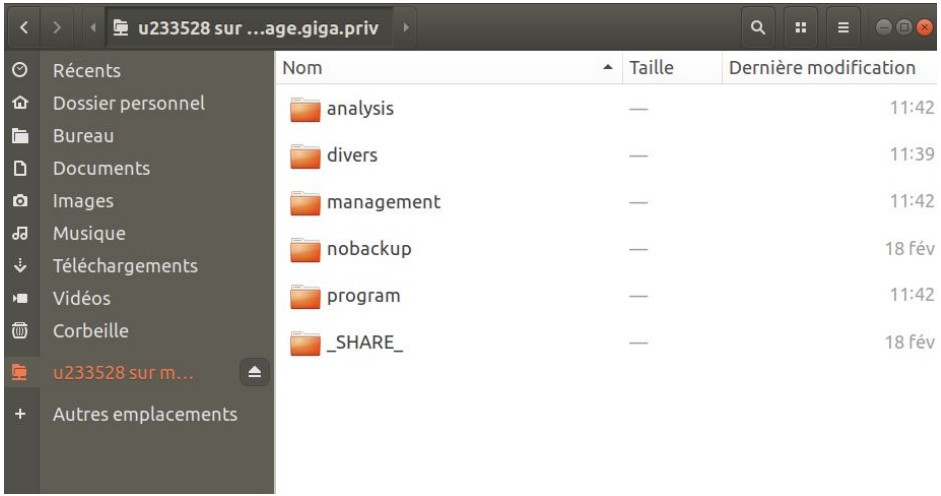
- Home
- Laboratory shared space
- Resources

Space available

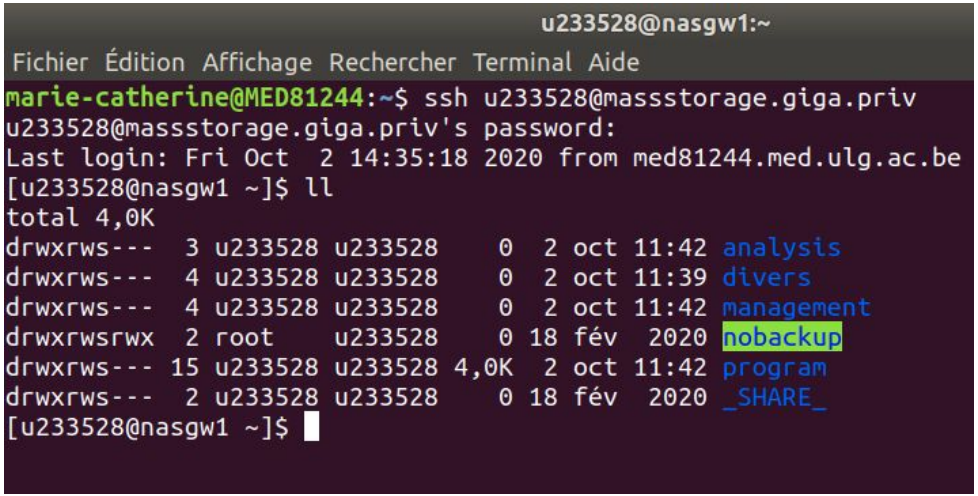
- Home:
  - Entry point of the mass storage

  2 methods of connection:
  - SAMBA (file browser)
  - SSH (terminal)

Connection to the mass storage



SAMBA (file browser)



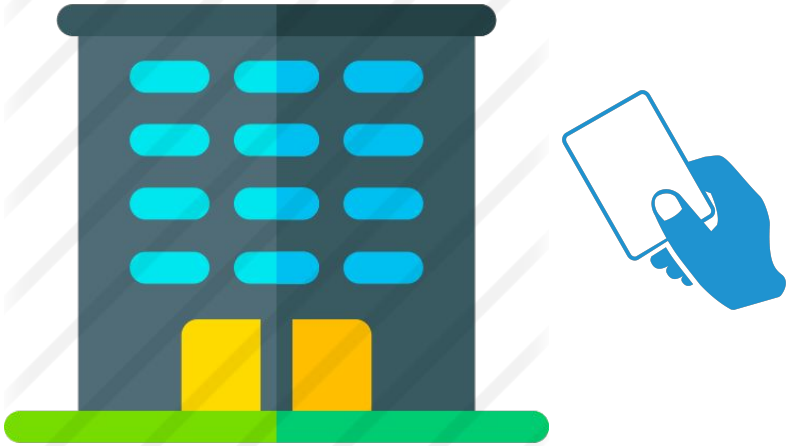
SSH (terminal)

Space available

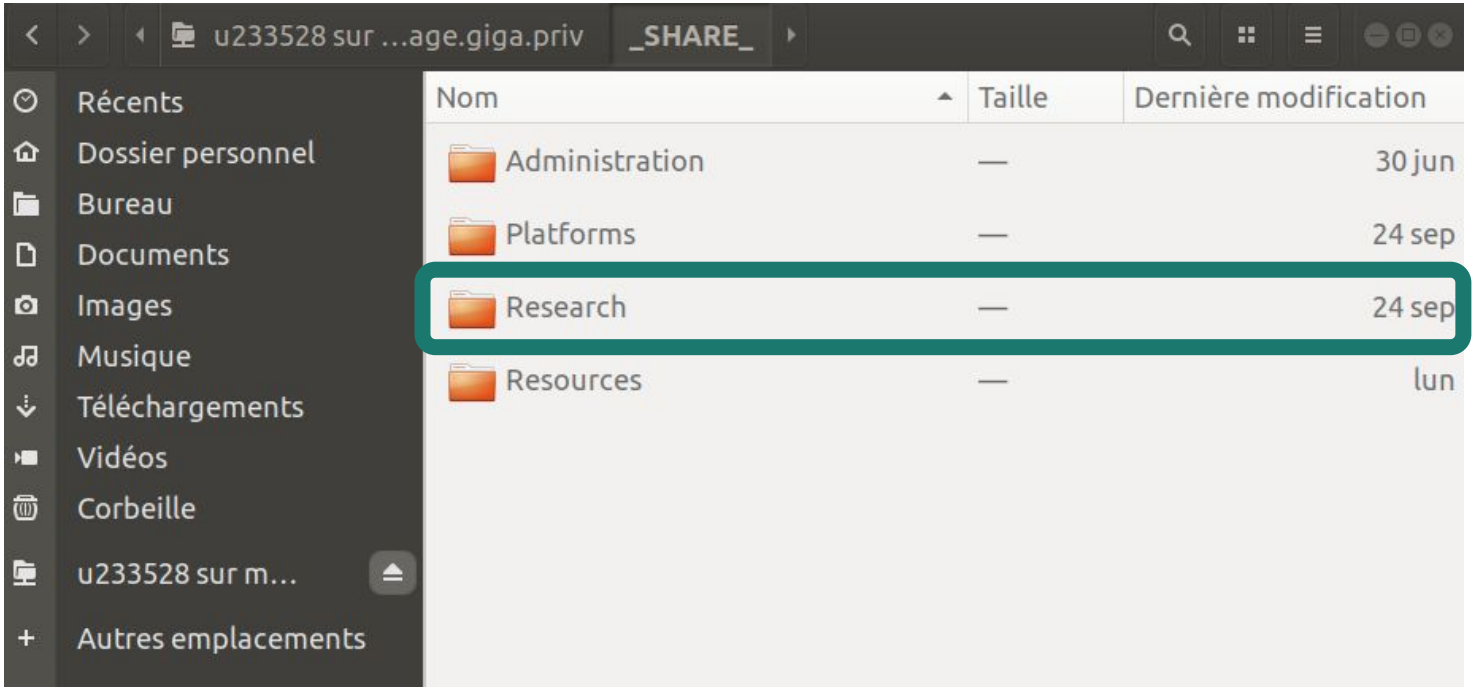
- Home:
  - Entry point of the mass storage
  - Limited to 100Gb, only accessible to you

Space available

- Laboratory shared space:
  - Space depends on the projects/analysis, accessible to all members of the laboratory



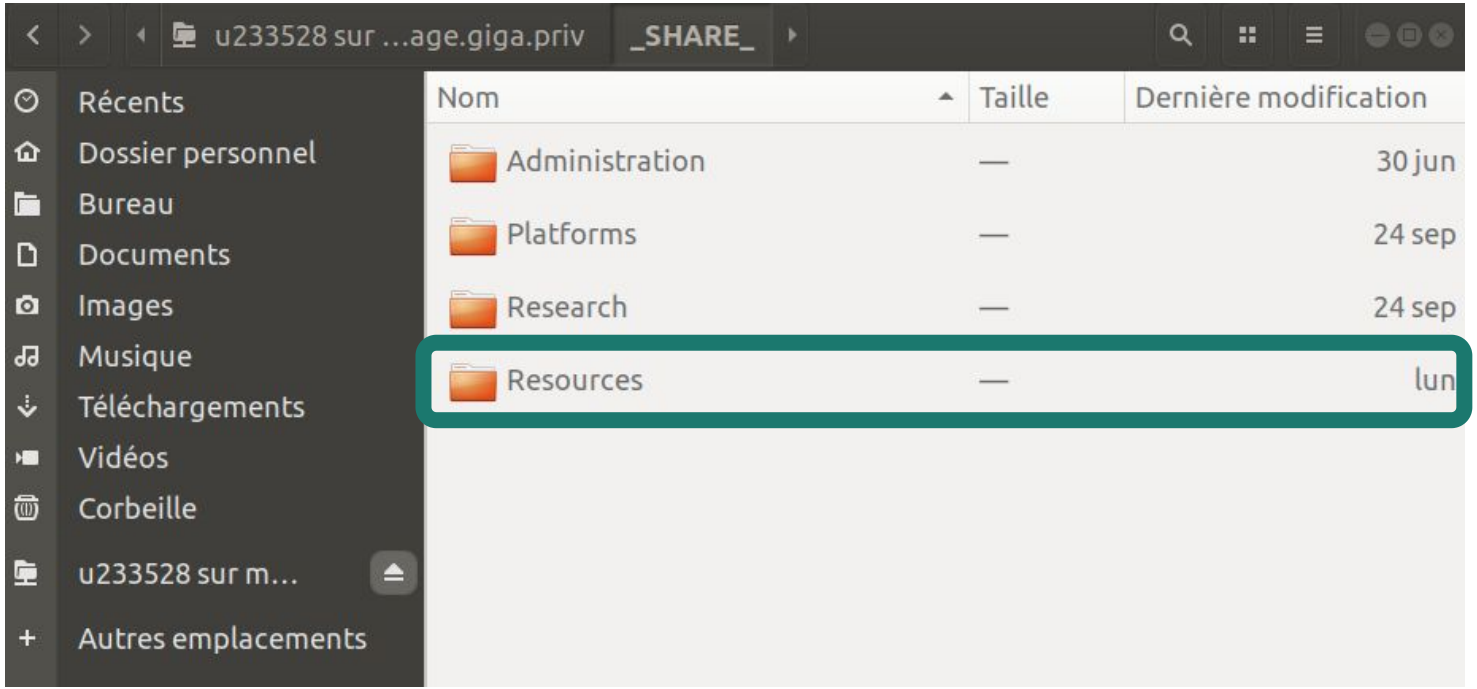
Laboratory shared space



Space available

- Resources:
  - Contains reference tools such as the sequence of the human genome

Resources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SHARE
Récents
Dossier personnel
Bureau
Documents
Images
Musique
Téléchargements
Vidéos
Corbeille
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Autres emplacements
Nom
Taille
Dernière modification
Administration — 30 jun
Platforms — 24 sep
Research — 24 sep
Resources — lun

Why using this type of infrastructure?

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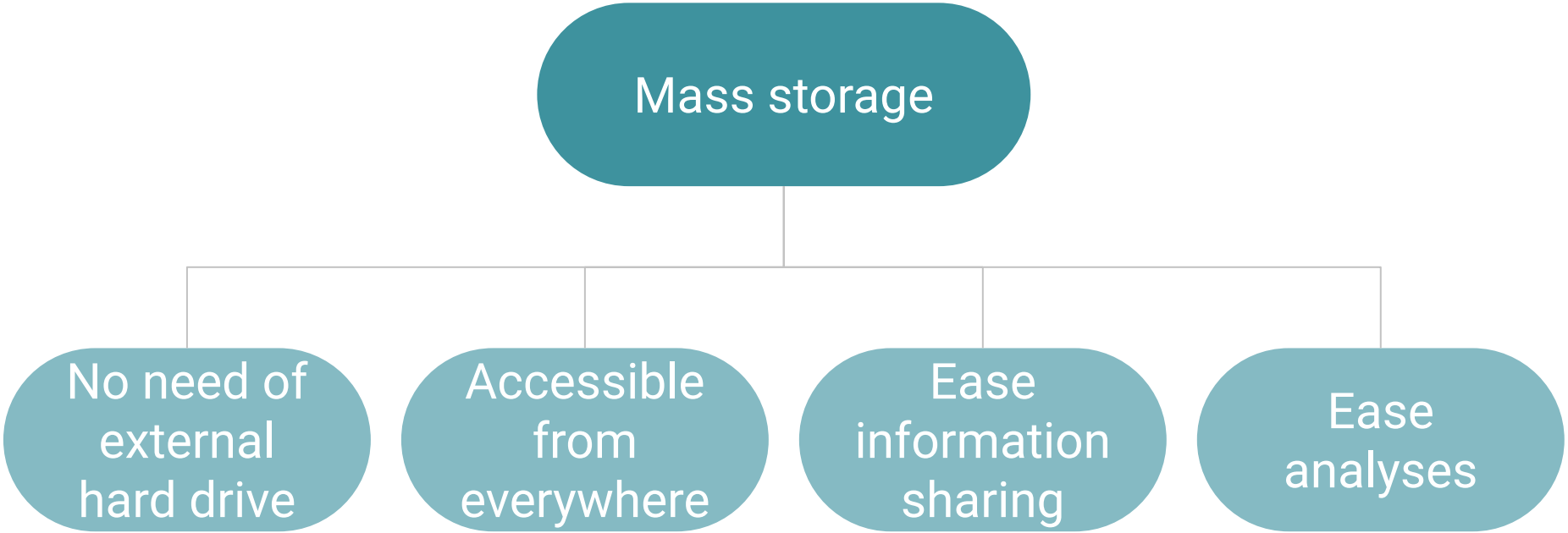

Backup/archiving

- Backup
- Archiving

Backup/archiving

- Backup
  - copy of current data/files
  - after 2 hours of inactivity

=> allow retrieval of older version if data lost/corrupted

Backup/archiving

- Backup
  - copies present in different location:

SEGI

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=> Even if destruction of one of the location, still have copy of the data

Backup/archiving

- Archiving
  - storage of data/files for a long period of time

=> allow to gain place on the disk

Take home message

Mass storage

- Huge Capacity
- Secure
- Reliable
- Linked to Cluster




More information

Wiki on the GIGA mass storage:

https://gitlab.uliege.be/giga-bioinfo/user-guides-wiki/wikis/home

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