

GIGA mass storage

GIGA Doctorate School

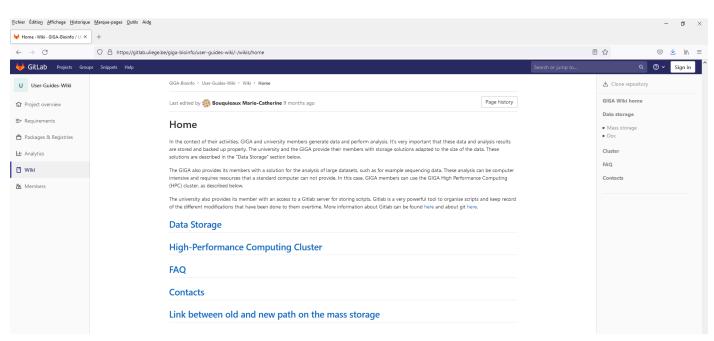


- Baseline information
- Space available for user
- Backup/Archive



Wiki about GIGA mass storage:

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





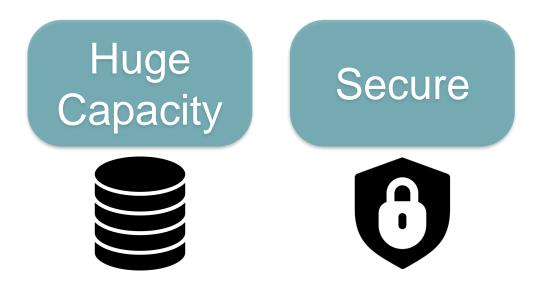


Professional infrastructure for data storage

Huge Capacity

















Songs

Baseline information

Professional infrastructure for data storage

Huge Capacity



5MB	1
500GB	100,000
2.2PB	440,000,000

Size

2.2 PetaBytes



Professional infrastructure for data storage

Huge Capacity



2.2	PetaBytes
	. etabytes

Size	Songs
5MB	1
500GB	100,000
2.2PB	440,000,000

≥2511years













Protected and restricted access

Protected

- Inside university network
- Firewall

Restricted

- Need both password AND authorisation
- Each folder can have restricted access





Limited and protected access

- > Secure: Rules to store human/personal data
 - ✓ GDPR compliance

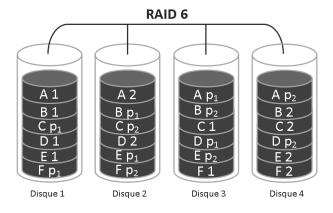
More information on the General Data Protection Regulation (GDPR) on Monday the 24th October



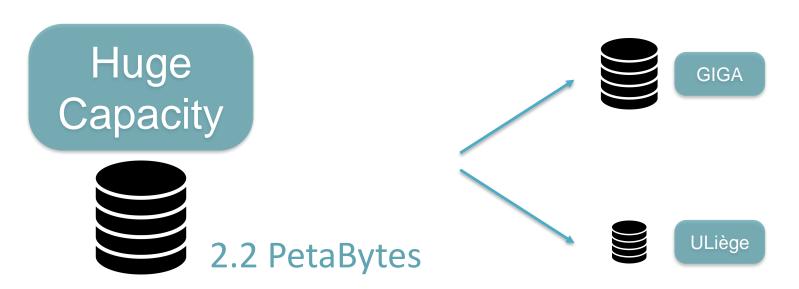


Reliable

- Professional disk (material and writing/RAID)
- Backed up on a regular basis

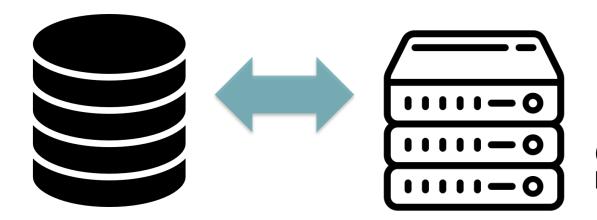








- Available to all GIGA members
- Linked to the GIGA cluster



(More information on Monday 17th October)



- * 3 space locations available:
 - > HOME
 - Laboratory shared space
 - Resources



- * 3 space locations available:
 - HOMEEntry point of the mass storage





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 - HOMEEntry point of the mass storage

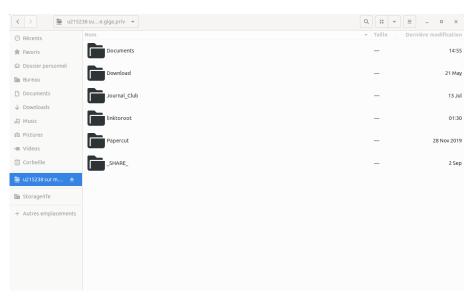
2 methods:

- SAMBA (file browser)
- SSH (terminal)





2 methods:



u215238@massstorage.giga.priv's password: Last login: Tue Sep 28 14:44:39 2021 from med81244.user.uliege.priv Welcome to You are logged in on NASGW2 In case of problem, contact the Helpdesk Ticket : https://sam.segi.uliege.be/ Phone : 04/366.49.99 E-mail : helpdesk@seqi.ulq.ac.be --> For more information about the GIGA cluster and mass storage: https://gitlab.uliege.be/giga-bioinfo/user-guides-wiki/-/wikis/cluster/cluster-home /usr/bin/id: impossible de trouver le nom pour le GID 258696 -bash: module : commande introuvable -bash: module : commande introuvable [u215238@nasqw2 ~]\$ ll total 4.0K drwxrws--- 6 u215238 258696 4.1K Sep 30 11:35 Documents drwxrws--- 2 u215238 258696 0 May 21 08:39 Download drwxrws--- 5 u215238 258696 0 Jul 13 16:54 Journal_Club lrwxrwxrwx 1 u215238 258696 1 Jul 12 11:02 linktoroot -> / drwxrws--- 3 u215238 258696 0 Nov 28 2019 Papercut drwxrws--- 2 u215238 258696 0 Sep 2 17:16 SHARE

uliege@med81205:~\$ ssh u215238@massstorage.giga.priv

SSH

u215238@nasgw2:~



- 3 available space locations:
 - > HOME

Entry point of the mass storage

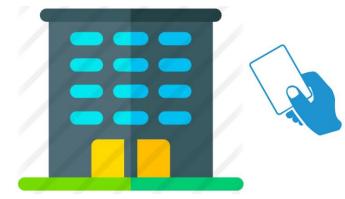
Limited to 100Gb

Only access to you



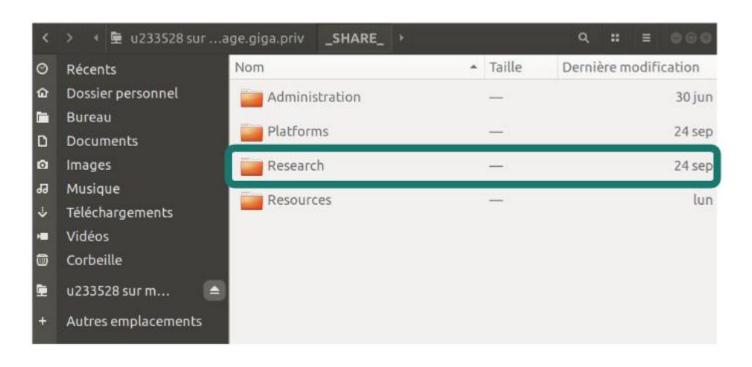


- * 3 available space locations:
 - > HOME
 - Laboratory shared spaceSpecific laboratory members access





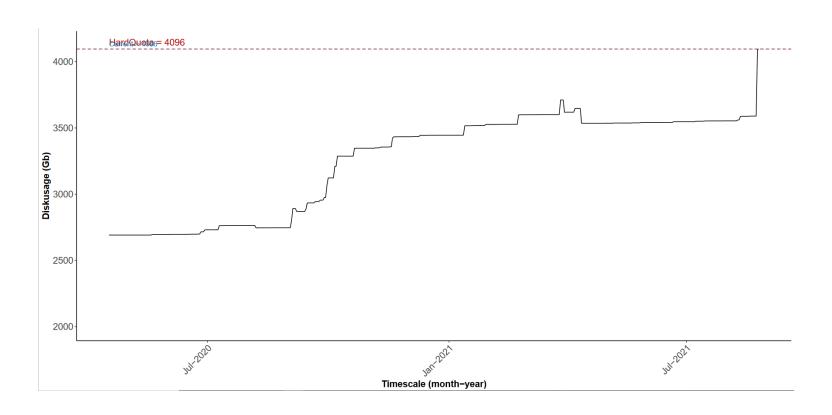
Laboratory shared space





- * 3 available space locations:
 - > HOME
 - Laboratory shared spaceSpecific laboratory members access
 - Limited space depending on project/analysis







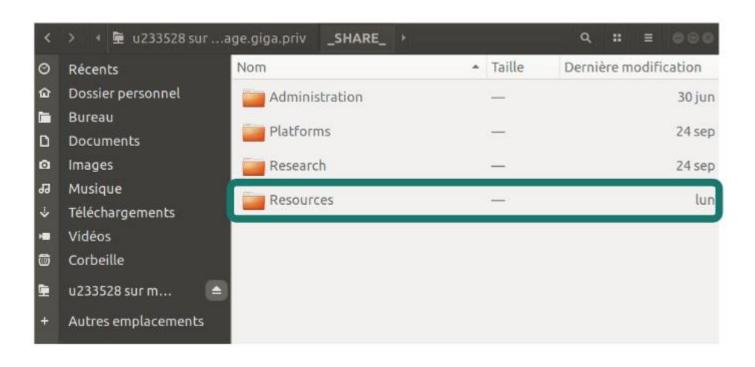
- * 3 space locations available:
 - > HOME
 - > Laboratory shared space
 - Resources

Contains reference tools such as sequence of the human genome





Resources





For the rest of Uliège community

- ► Still possible to have a laboratory shared space but no personal HOME.
 - Contact your UDI.

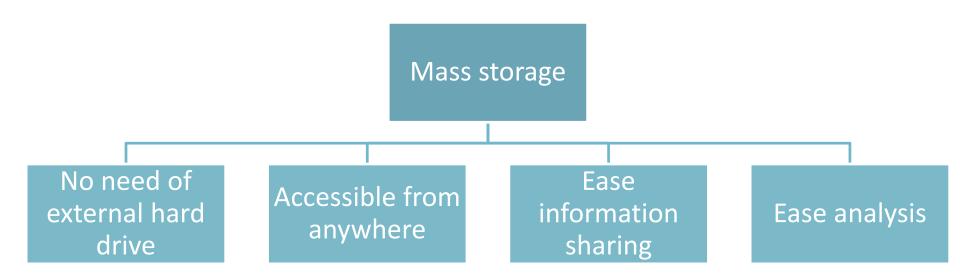
- Not link to GIGA cluster
- Permissions management on a case-by-case basis



Why this type of structure?



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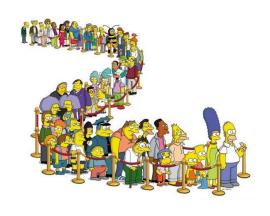




- Backup:
 - Copies of current data/files
 - After 2 hours of inactivity



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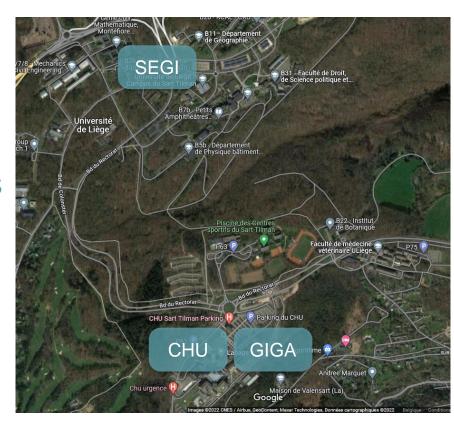
→ Allow retrieval of folder version (max 25) if lost or corrupted data



Backup:

- Copies of current data/files
- > 3 copies on different sites

→ Location disaster protected

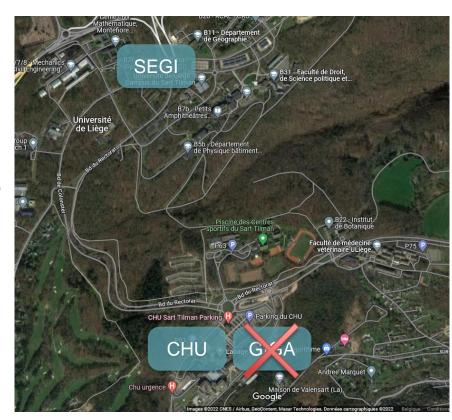




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→ Location disaster protected





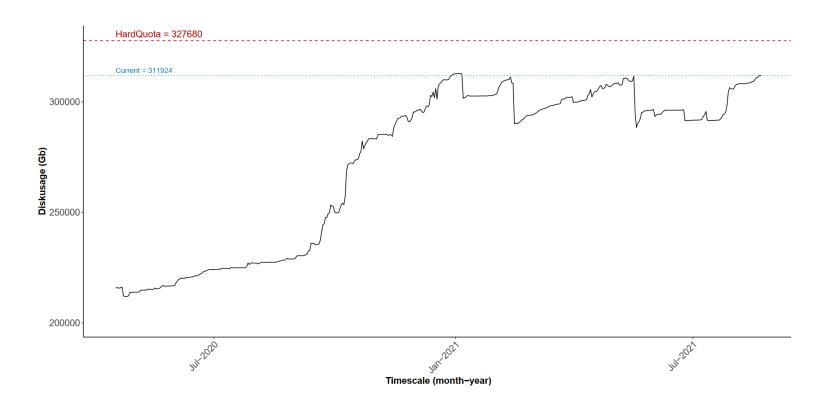
- * Backup:
- Archiving:



- Backup:
- Archiving:
 - Data/files storage secured in time

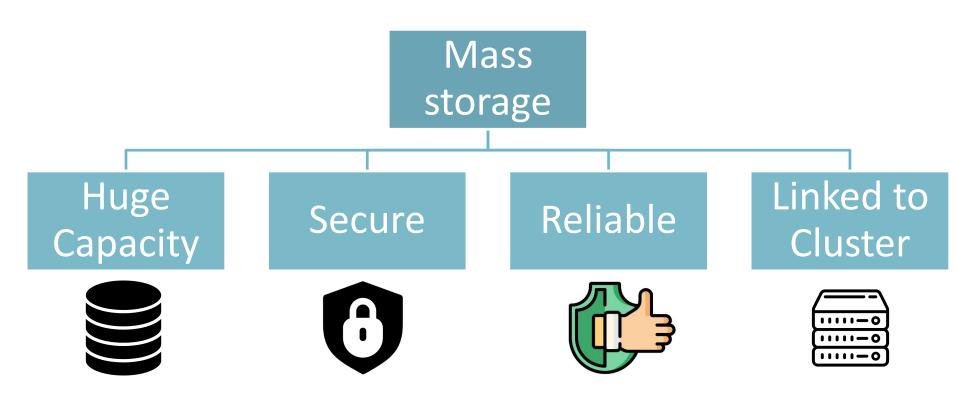
→ Allows space maintenance on disk







Take home message





More information

Wiki about GIGA mass storage:

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

Platform website:

https://www.gigabioinformatics.uliege.be/cms/c_8464757/en/gigabioinformatics

Contact

Bioinformatics Team

bioinfo.giga@uliege.be