



**UNIVERSITEIT
GENT**

DIRECTIE ICT

DICT STORAGE PLATFORMS

07/02/2020

WHY USE DICT STORAGE PLATFORMS?

- Maintained by DICT, not you (you have better things to do)
 - Professional infrastructure
 - Redundant setup
 - Regular updates
 - Disaster recovery backups
 - Dedicated teams
- Scalable infrastructure
- Mostly free of charge (no such thing as a free lunch)

OFFICE365

See <https://helpdesk.ugent.be/office365/en>

- Version control
- GB okay, TB not okay

- Personal → OneDrive for Business
 - <https://onedrive.ugent.be>
 - (<> personal OneDrive)

- Shared → SharePoint
 - sharing, collaborating, joint editing documents
 - <https://sharepoint.ugent.be>
 - max filesize = 200 Mb

ACL SHARES – CENTRAL DISK SPACE

See <https://helpdesk.ugent.be/netdisk/en/>

- General purpose centralized shared storage
- Personal
 - personal disk space: **H:-drive** (quota = 5 GB)
 - personal web space: **W:-drive** (quota = 1 GB)
- Shared
 - shared network drives: **S:-drive** (on demand, GB – TB range)
intended for project-related storage of data
e.g. 'vakgroep'-shares (within department)

HPC STORAGE

See <https://www.ugent.be/hpc/en>

- Dedicated storage for scientific computing
- Authentication via VSC id (easily requested with UGent credentials)
- Personal
 - `$VSC_HOME` (quota = 3 GB)
 - `$VSC_DATA` (quota = 25 GB)
 - `$VSC_SCRATCH` (quota = 25 GB)
- Shared – for virtual organisations
 - `$VSC_DATA_VO` (quota = 250 GB or more)
 - `$VSC_SCRATCH_VO` (quota = 250 GB or more)

DICT STORAGE PLATFORMS

	SharePoint	OneDrive	ACL shares	HPC storage
On premises UGent				
Orphaned data deleted?	No	after 1 year	after 1 year	No
Malicious code scanning				
User backup mechanism	versioning	versioning	snapshots	No
Large datasets (TB)				
Active data				
Passive data				
Public access for non-UGent users	welkom	Microsoft	No	welkom
Special handling of sensitive data				
Total size dimension (order magnitude)	10 TB	200 TB	2 PB	3 PB

DIRECTIE ICT

GITHUB @ UGENT

07/02/2020

WHAT IS GITHUB?

See <https://helpdesk.ugent.be/github/>

- Versioning system and code repository for software
- Ideally suited for collaborative software development
- Open source software
- Public vs. private repositories

- <https://github.ugent.be>
 - Authentication via UGent account
 - Only for research and education
 - Quota = 1 GB
 - Readable, but interaction with non-UGent not possible
(Need this? Use <https://github.com> but you need a license)

Dr. Ewald Pauwels

Scientific coordinator HPC @ Ghent University

Vice-coordinator VSC

HPC-UGent

E hpc@ugent.be

www.ugent.be/hpc