Münster Imaging Network

OMERO SERVER

Setup/Design

- VM in OpenStack with direct access to University Cloud infrastructure / services
- OMERO.server, OMERO.web
- Data.Dir: NFS-Share in OpenStack / cloud environment
- Local OMERO.insight clients

Memory/Storage

Storage: 43 TB / 12 in use

- 8 vCPUs
- 32GB RAM

→ Storage, vCPUs & Memory easily extendable due to OpenStack environment

Backup/Archive

- 8+3 erasure coding
- In Progress: Backup for published Data together with the library (3 copies)

Data

Type:
- Normal Light microscopy & Electron microscopy
- Slide Scans (Histology / Pathology)
- Screening Data

Domain:
- Biology
- Medicine

3rd Party/AddOns

- OMERO.OpenLink
- OMERO.iviewer
- OMERO.figure
- OMERO.webtagging
- OMERO.parade
- OMERO.OpenLink
- OMERO.mde

- Different scripts

User

# User:	878
Activated User:	870
Daily active:	~15
	170 in courses
2021-06-08 to 2021-06-12:	324

Usage

Monthly increase of storage:
613/670/412/133/2236 GB over the last 5 months

Concurrent users:
background_threads: 100
db.poolsize: 290

Access

Internal:
- LDAP
- OMERO.clients
- OpenLink

External:
- Public group
- OpenLink

Team/Maintenance

General Management
- 3 Facility Members

System Administrator
- 1 (0.1 FTE)

Network infrastructure

- 100Mbit – 10Gbit connections to OMERO (Microscopes / Office Computer)
- 2x25Gbit connection between analysis server and OMERO

Date: 2021-12-14