# Münster Imaging Network

# OMERO SERVER

## Setup/Design

- VM in OpenStack with direct access to University Cloud infrastructure / services
- OMERO.server, OMERO.web (in venv / 1VM)
- Data.Dir:
  NFS-Share in OpenStack / cloud environment
- Local OMERO.insight clients

## Memory/Storage

- Storage: 43 TB / 12TB 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 / HCS

**Domain:**
- Biology
- Medicine

## 3rd Party/AddOns

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

- Different scripts
  - Key-Value from csv

## User

| | |
|---|---|
| # User: | 878 |
| Activated User: | 870 |
| Daily active: | ~15 |
| | 170 in courses |
| 2021-06-08 to 2021-06-12: | 324 |
| Groups: | 35 |

Public Group for publications

## 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