

Automatic storing, sharing and archiving datasets with Onedata

Tomáš Svoboda, Aleš Křenek, Josef Handl

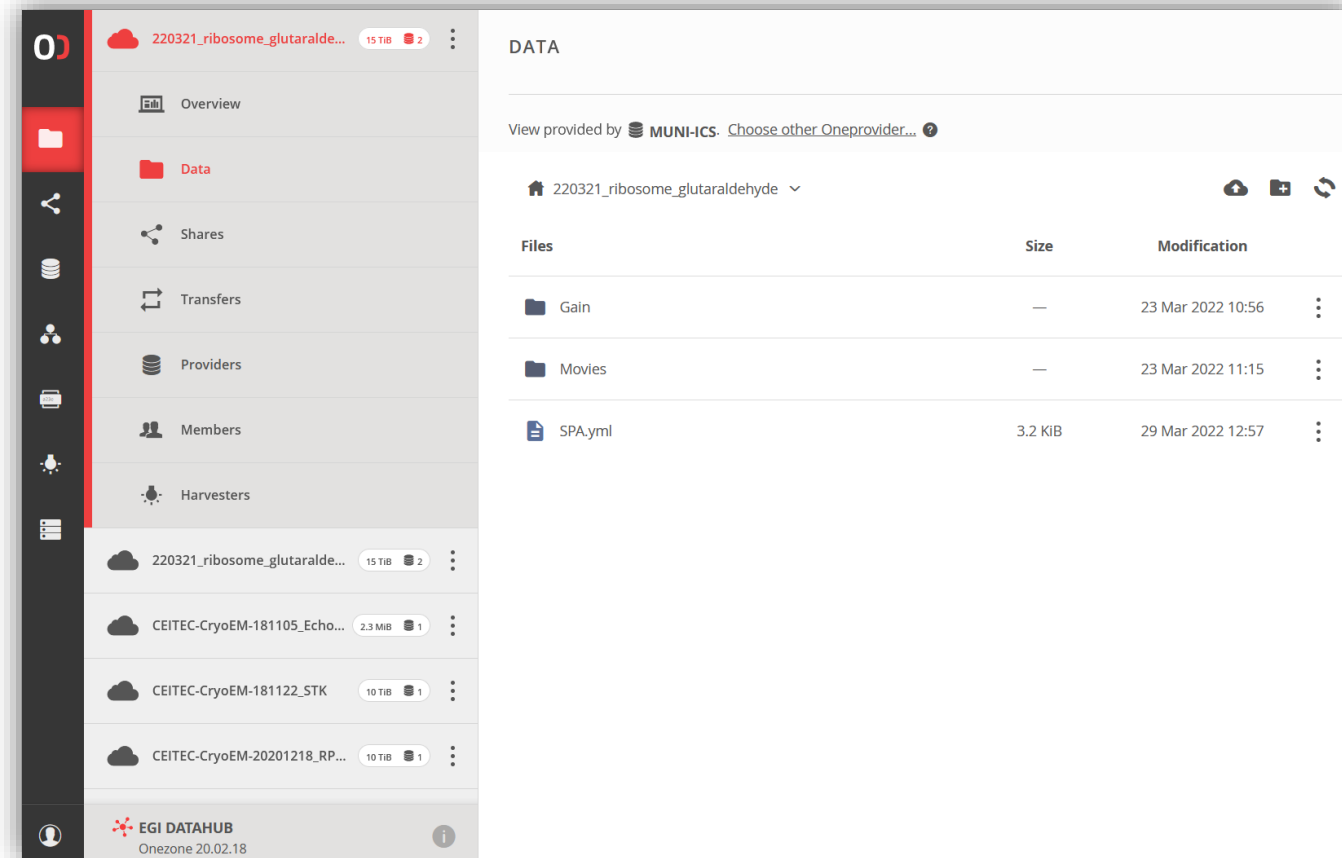
CESNET & Masaryk University (Czech republic)

EGI Conference 2022, Prague



Onedata

- Global data access management system
 - storing, sharing and publishing data
- Provide access to data in a similar way which users know from widespread cloud solutions (Dropbox, ...)
- Adapted for use in a scientific environment:
 - Compliant with FAIR recommendations
 - Ready to HPC
- Data accessible by several ways:
 - Web interface
 - CLI client
 - REST API
- Multiple storage backends
 - POSIX, S3, Ceph, ...



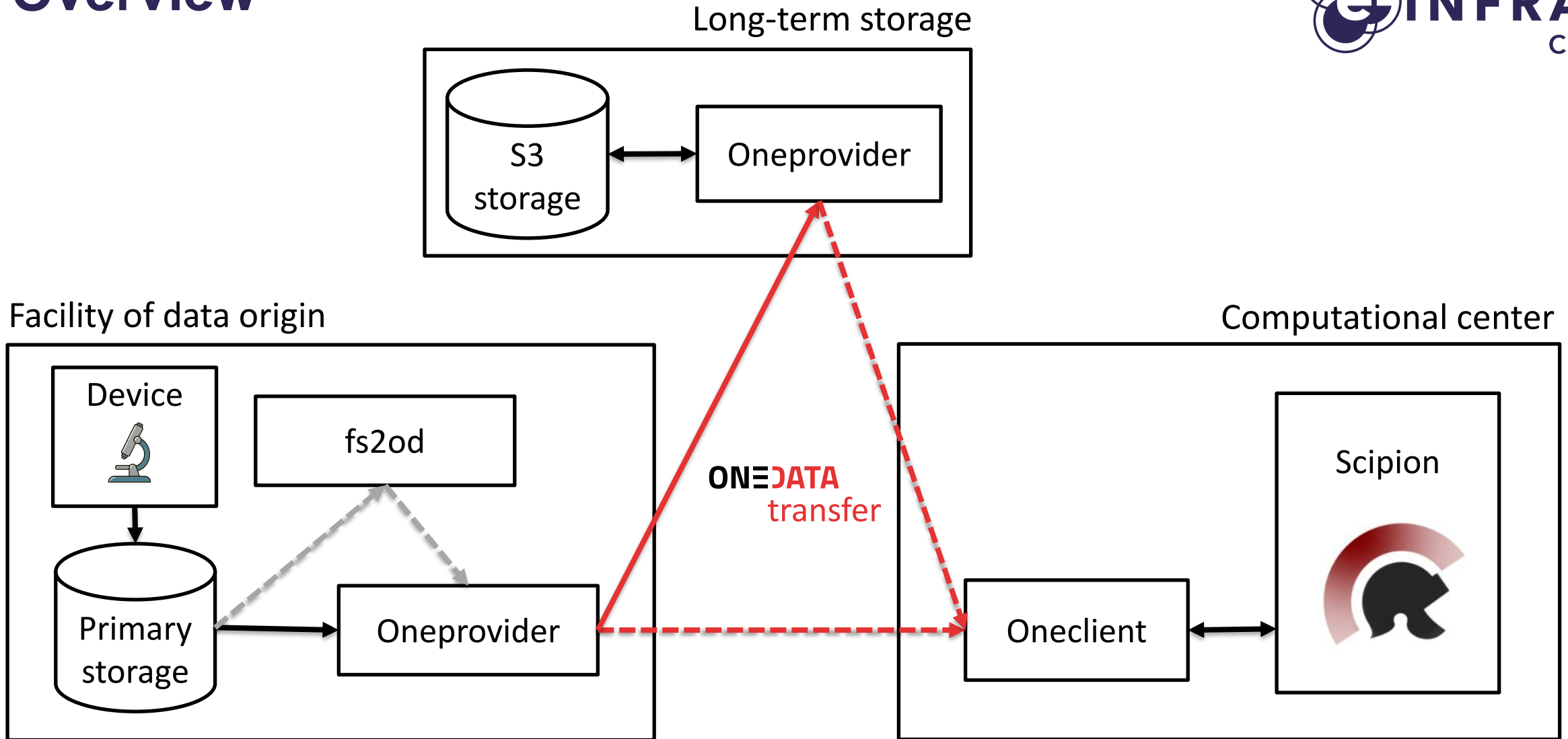
Introduction

fs2od

- Supporting software for automating managing scientific datasets
 - According to defined policies
- Developed on Cryo-EM use-case
- Consist of:
 - Data acquisition from specialized devices
 - Sharing datasets to users
 - Efficient access to computational processing
 - Replicating to long-term storages
 - TODO: Exporting to existing repositories
- Documentation - fs2od.readthedocs.io



Overview





Demonstration

