

A selection of iRODS prototypes & more

iRODS UGM 2022 - Lightning talk

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How to get familiar with iRODS?

- iRODS **training compendium** with an extra **tutorial how to write your own replication service (iRODS rules)**
- Follow the training and contributing

<https://git.wur.nl/rdm-infrastructure/irods-training>

<https://github.com/chStaiger/irods-training-compendium>

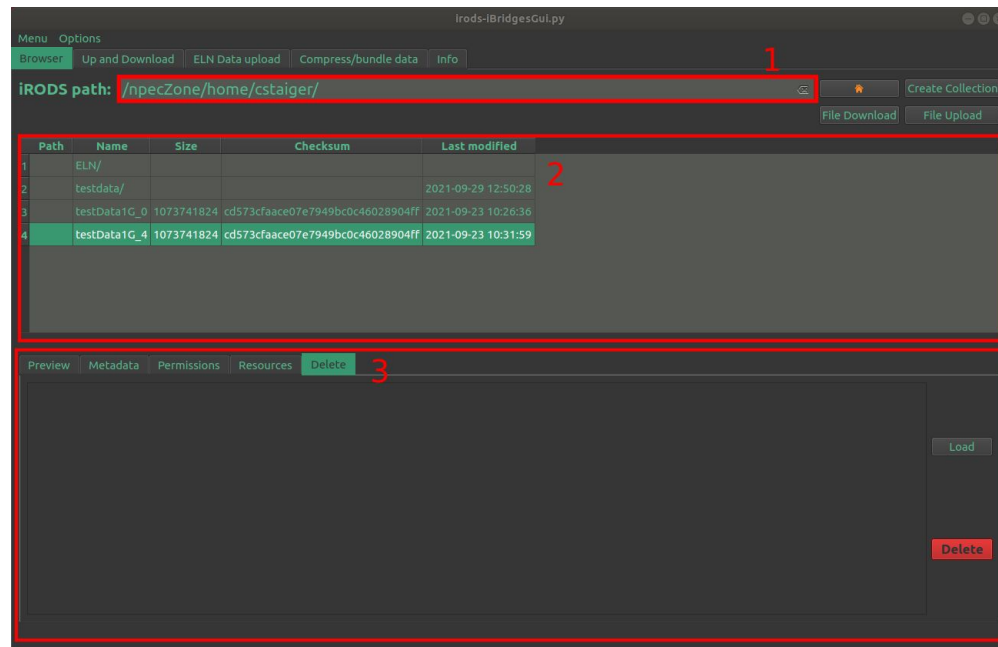
Fuji tape integration

- Plugin Fuji tape library through S3 plugin
- Teach iRODS to get the state of the data in the tape library (offline, staging, online)

https://github.com/chStaiger/irods-training-compendium/blob/master/16-Fuji-Integration/Fuji_scripts/FujiExtractStorageInfo.py

iBridges - GUI

- GUI Executable, standalone software
- Windows, Mac, Linux
- Switch between icommands and python API
- <https://github.com/chStaiger/iBridges-Gui>
- <https://git.wur.nl/rdm-infrastructure/irods-clients>
- Manual: <https://github.com/chStaiger/iBridges-Gui/blob/master/iBridgesGui-HowTo.md>



- Special thanks to Sim van Daalen (WUR)

GUI features

- Browser (data, metadata, acls, resources) + editing
- Search
- Large scale data up and downloads (prototype)
- iRODS ticket creation and login with ticket
- Integration with our local Electronical Lab Notebooks (ELN)
- Data bundling (Depending on microservices on next slide)
- Views configurable in `irods_environment.json`

Data bundling microservices

- <https://git.wur.nl/rdm-infrastructure/irods-microservices>
- Create archive (tar, zip, ...), based on libarchive
- Aware of replicas → takes the latest one
- Index file: size, checksum, metadata, acls
- Single file extraction; restoring data and metadata
- Special thanks to Felix Croes (University Utrecht)