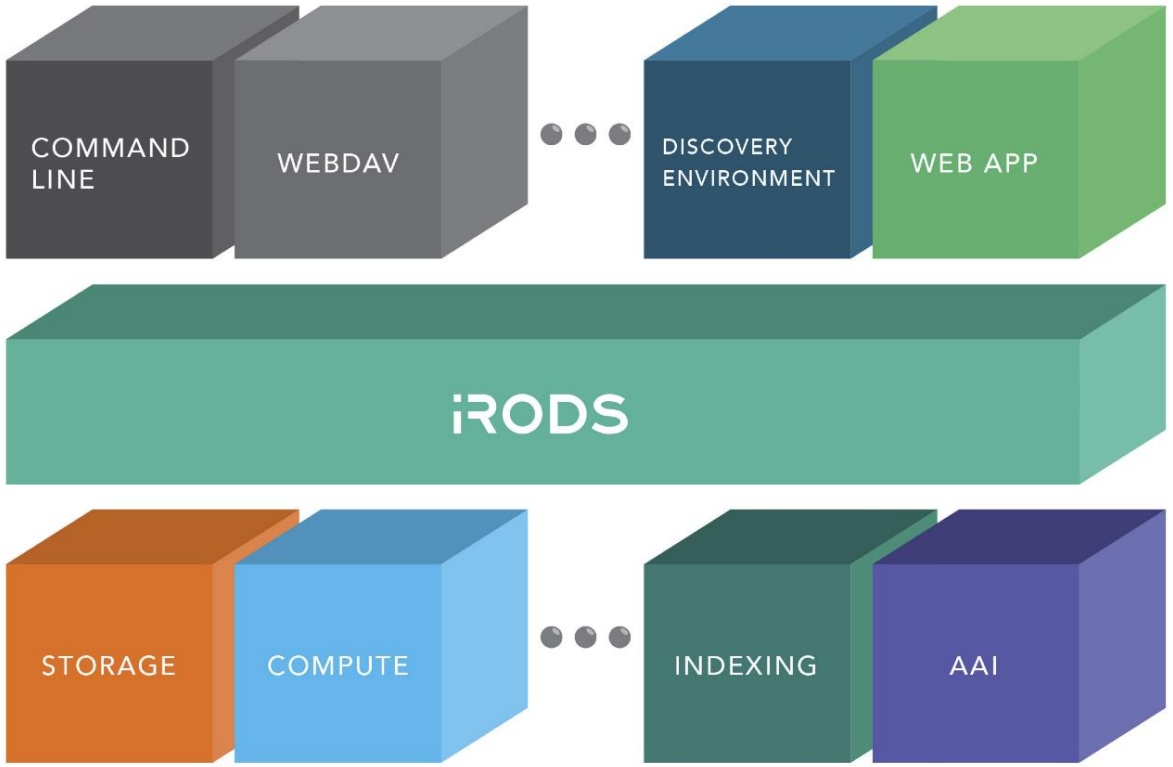
KU LEUVEN

03. KU Leuven testbed

KU Leuven iRODS: the team



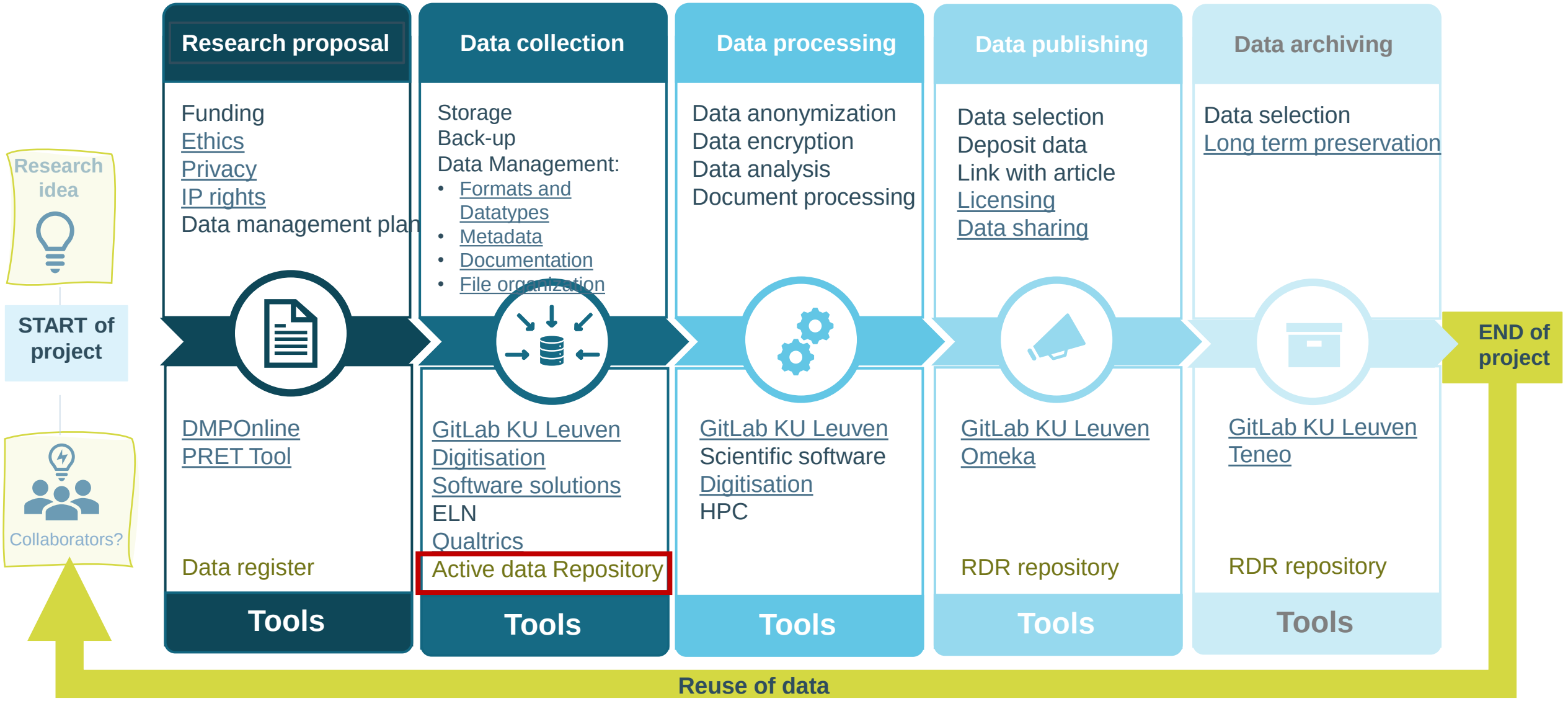
Management
Coordination

User Support
Policies
Documentation

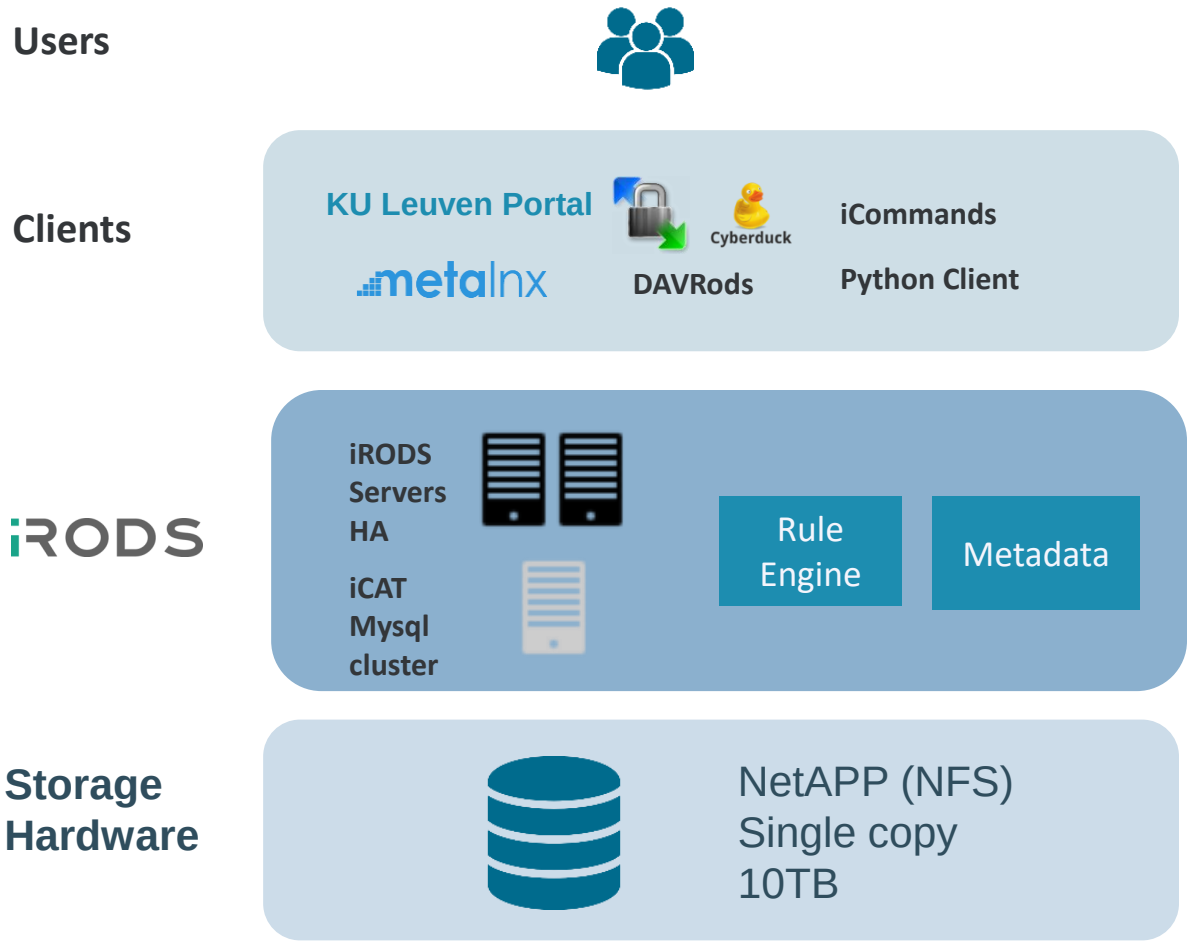
iRODS middleware

Storage

iRODS in de KU Leuven RDM Landscape



KU Leuven iRODS testbed: architecture



All infrastructure virtualized:

- iRODS servers
- Metalnx
- Other servers: webdav, …

3 environments:

- Test
- Quality
- Production

KU Leuven iRODS: possible architecture

Users

Clients

KU Leuven Portal

metalnx

DAVRods

iCommands

Python Client

Federation (optional)

iRODS

Zone W&T

Rule Engine

MD

Zone Biomed

Rule Engine

MD

Zone HW

Rule Engine

MD

.....

Zone A

Rule Engine

MD

Storage Hardware

TBD

KU LEUVEN

Authentication

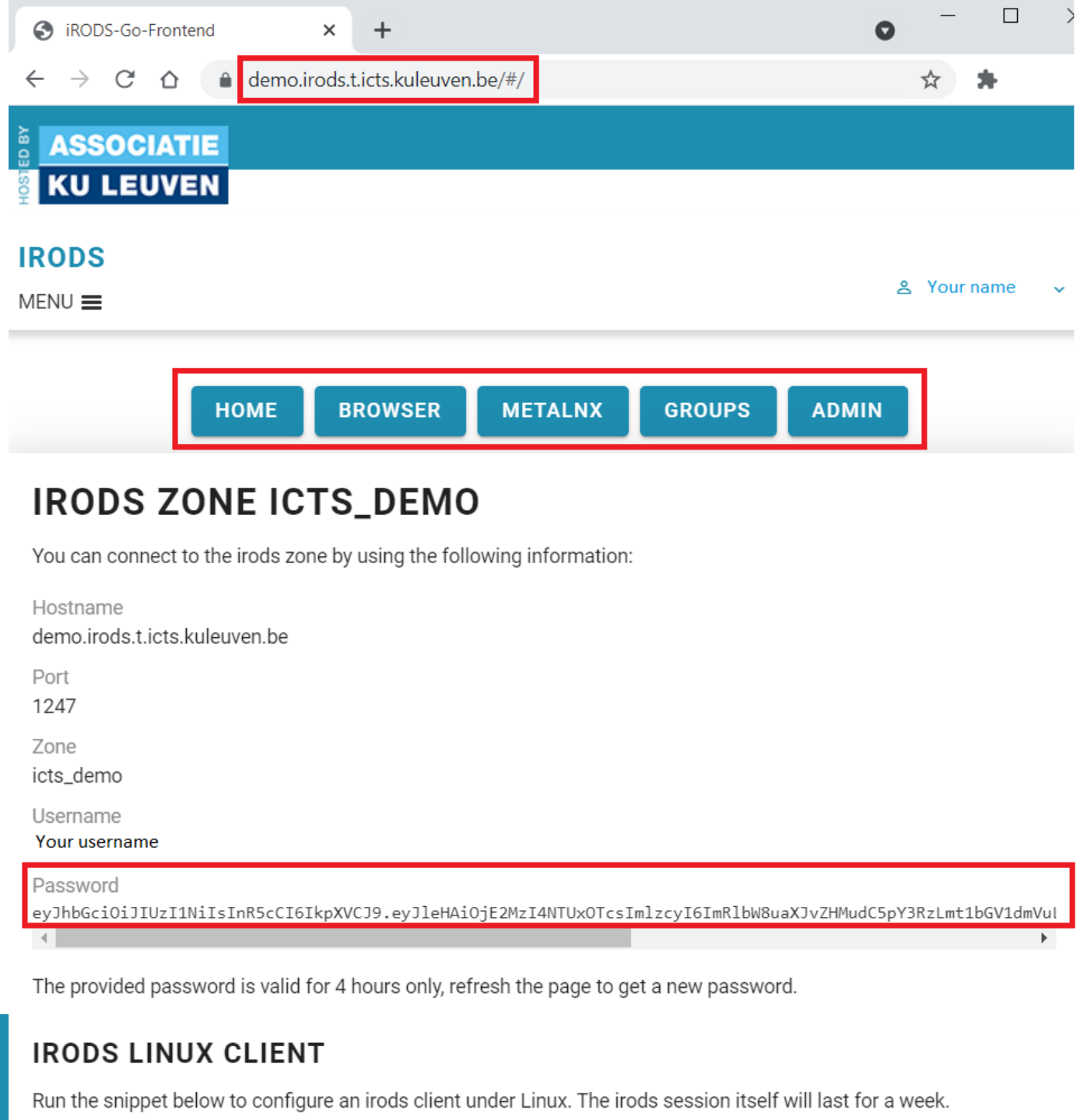
User Roles

- iRODS user
  - Access to iRODS will be regulated as Facility
- Group administrator
  - Can create groups
  - Can join empty groups
  - Can edit members of groups they belong to
- Machine user
  - long lived tokens

Admin Roles

- Zone user administrator (local IT)
  - Can create groups and assign quotas
  - Can deploy zone rules
- Zone administrator (ICTS)
  - Can deploy system rules
  - Can make configurations changes

Login portal



Hands-on

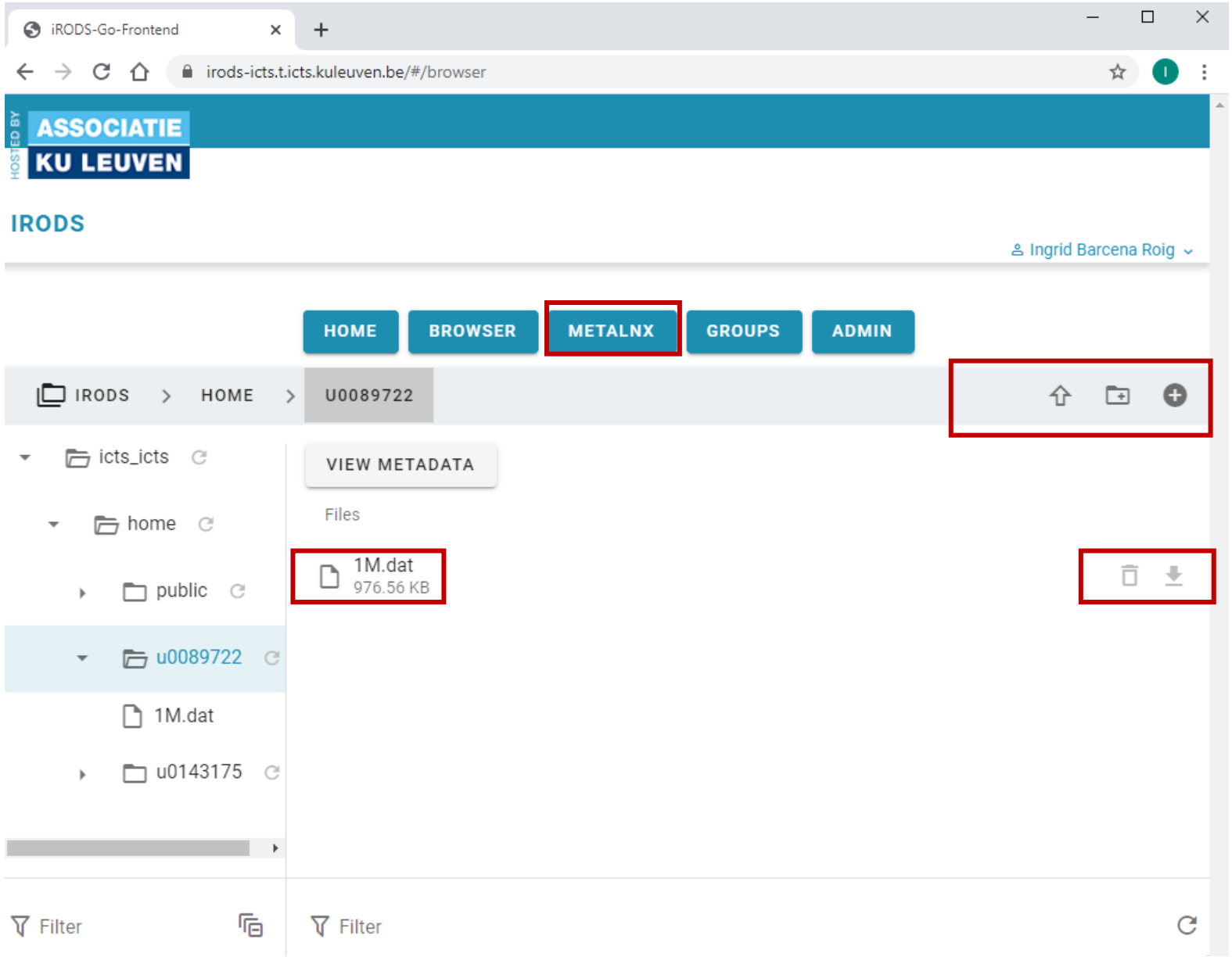
Connecting to the KU Leuven testbed

Connecting to iRODS

- Go to: https://demo.irods.t.icts.kuleuven.be/
- Authenticate using your u-account:
  - You will be sent to the KU Leuven login page

- You are in!

Login portal



Demo admin functions

- Admin tab
  - Users -> add, remove, make group admin
  - Administrators tab
  - Groups tab: add quota to group, remove

- Group tab
  - Join group
  - Click group: add/remove users, add machines

Hands-on

- Demo of the functionalities of the Login Portal
- Explore the demonstrated functionalities
  - Navigate to your home
  - Create a new folder
  - Upload a file
  - Download the file
  - Delete the file
  - Look at the metadata
  - Add a metadata attribute