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04. Working with iRODS



Basic

Goals of this module

- Get familiar with the different clients of iRODS: Metalnx, Webdav interface, icommands (CLI),
 Python iRODS Client (PRC)
- You will learn:
 - moving around iRODS
 - · putting and getting data
 - adding metadata to objects and collections
 - query/search data based on metadata*
 - managing data: create collections, move data, remove data, manage permissions

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Clients









PRC-Python API

KU Leuven Portal

DAVRods

Cadaver client

DAVRods

iCommands

CentOS7 Ubuntu16 Ubuntu18 **PRC-Python API**



KU Leuven Portal

References:

KU Leuven portal: https://irods-demo.t.icts.kuleuven.be/ Metalnx: https://irods-demo.t.icts.kuleuven.be/metalnx/

Cyberduck: https://cyberduck.io/

WinSCP: https://winscp.net/eng/download.php Cadaver client: http://www.webdav.org/cadaver/

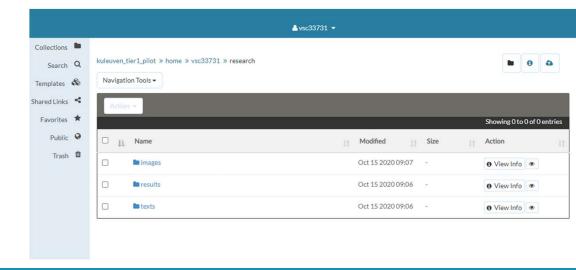
Icommands: https://irods.org/download/

Python iRODS Client (PRC): https://github.com/irods/python-irodsclient



Metalnx

- graphical user interface easiness
- working with data objects/collections
- adding metadata to data objects/collections
- downloading data objects
- permission
- iRODS design





WebDay client

- graphical user interface easiness
- working with data objects/collections
- adding metadata to data objects/collections
- downloading data objects
- permission
- iRODS design

icommands

```
iput - iget- irsync -imeta...
```

- uploading/downloading data
- adding metadata to data objects/collections
- querying based on metadata
- deleting data objects/collections
- synchronization of data
- ACLs to data objects/collections

```
vsc33731@login1 ~
$ imkdir research

vsc33731@login1 ~
$ icd research

vsc33731@login1 ~
$ iput dataset1

vsc33731@login1 ~
$ iput dataset2

vsc33731@login1 ~
$ ils
/kuleuven_tier1_pilot/home/vsc33731/research:
    dataset1
    dataset2
```



Python iRODS Client (PRC)

Python3, python-irodsclient

- working with data objects/collections
- adding metadata to data objects/collections
- querying based on metadata
- deleting data objects/collections
- listing the disk usage
- ACLs to data objects/collections

