

# iRODS

metadata, iCAT queries.

# news

- torroja migration: at the time this was written, there still were users with non-secure passwords.
- final switch will be made remotely from Barcelona?

# locked users

- adrian, crete l 2, david, florian, garciaramos, juanc, paco, pedro, soledad, vassilis.

# what is metadata

- is data about data.
- this data may concern to a single data object or a collection, ...
- it is a triplet AVU (Attribute name, attribute value, attribute unit). U is optional.

# working with metadata

- imeta is the icommand to use in order to add, modify and remove metadata
- usage: imeta [-vVhz] [command]
- few available commands: add, rm, mod, ls
- wildcard support: % and \_ (like \* and ? in linux).
- more info <https://www.irods.org/index.php/imeta>

# imeta commands

- **general syntax:** `command data_class command_tail`
- **command:** `add, addw, rm, rmw, mod, ls, lsw, qu, cp`. 'w' is to work with wildcards.
- **data\_class:** specifies the type of data object to work with.
- **tail:** attributes and values, but depends on the command.

# imeta commands (II).

## data\_class

- For each command, -d, -C, -R, -G or -u: dataobjs (irods files), collections, resources, resource groups or users.

# command tails

- used in add, but its the same for addw, rm, rmw and mod.
- Name AttName AttValue [AttUnits]



# command tails (II)

- only for ls and lsw
- Name [AttName]

# command tails (III)

- this one is only for qu
- AttName Op AttVal

# command tails (IV)

- this is for cp, copying metadata
- `-d|C|R|G|u -d|C|R|G|u Name1 Name2`

# iquest

- used to query the ICAT metadata catalog.
- SQL-like queries.
- **syntax:** `iquest --sql 'pre-defined SQL string' [format] [arguments]`

# iquest examples

- iquest "select DATA\_PATH where META\_DATA\_ATTR\_NAME = 'autor'"
- iquest "select DATA\_PATH where META\_DATA\_ATTR\_VALUE = 'jaakko'"
- note the quotes and double-quotes, and spaces before and after '='.
- is this the same as 'imeta qu autor = jaakko'?

# more iquest examples

- <https://www.irods.org/index.php/iquest>

# 'imeta qu' vs 'iquest'

- apparently they are the same.
- but 'imeta qu' queries irods objects (irods file paths), and you will always depend on the metadata previously added; that's user metadata.
- 'iquest' retrieves actual file paths, and you can query straight to the iCAT SQL database.
- moreover, 'iquest' is not so user-friendly.

# next week

- I will be in Barcelona, so the week after:
- resource managing.