

# using iRODS

iRODS overview, installing icommands

# what is iRODS?

- **Long answer:** [https://irods.sdsc.edu/index.php/What\\_is\\_iRODS%3F](https://irods.sdsc.edu/index.php/What_is_iRODS%3F)
- **Short one:** The system we are going to use to share and organize our data.

# Two ways to access

- Web client - we won't use it much, but it's good to know
- iCommands - this is more handy for you

# Web Client

- go to <http://www.irods.org/web/>
- host: manolete.dmt.upm.es
- port: 1247
- user: rods (also 'anonymous' can access, read-only)
- pass: rods (anonymous pass: whatever)
- It's an intuitive and easy-to-use web file browser, no need to further explanation or screenshots.

# iCommands

- It's a set of unix-like commands to use iRODS system. Useful for you, since you all use linux terminal.
- You can download `icommands.zip` through the web-client.

# why do i have to use iCommands?

- Until now, if you needed a Field or a boundary layer you had know where it was:
  - wamba l 6, or wamba l 3, or...?
  - was it Juan's or Adrian's? Or that indian guy who left almost a year ago and I barley remember his name?
  - ...?

# why do i have to use iCommands? (II)

- When the iRODS is fully functional, you won't have to.
- Before running your fortran/matlab program, you will make something like this:
  - 'SRB, tell me the path for the boundary-layer with Re=XXXX computed in MN 6 months ago'.
  - -the SRB will tell you on a text file, for example-

# why do i have to use iCommands? (III)

- Guess what, iCommands is the way to do that questions to the SRB.



# iCommands installation

- **icommands.zip content:**
  - **bin folder: contains commands' binaries**
  - **env.zip: enviornment configuration for icommands (¡important!)**
- First, add bin folder to your PATH
  - add this line to your .bashrc file: `PATH=$PATH:/home/<user>/<whatever>/icommands/bin`
- Second, unzip env.zip file to your home directory. Name it '.irods' (the dot is important) inside this folder, there should be a file named '.irodsEnv'.

# .irodsEnv file

- **FOR NOW, it has to be like this:**

```
# iRODS personal configuration file.  
# This file was automatically created during iRODS installation.  
# Created Fri May 27 09:46:38 2011  
#  
# iRODS server host name:  
irodsHost 'manolete.dmt.upm.es'  
# iRODS server port number:  
irodsPort 1247  
  
# Default storage resource name:  
irodsDefResource 'demoResc'  
# Home directory in iRODS:  
irodsHome '/fluidMec/home/rods'  
# Current directory in iRODS:  
irodsCwd '/fluidMec/home/rods'  
# Account name:  
irodsUserName 'rods'  
# Zone:  
irodsZone 'fluidMec'
```

- **Questions?**

# How can I check if everything went right?

- type on your terminal: 'iinit'.
- its prompts you a password: anybody guesses which it should be?
- what does 'iinit' do, then?

# That's all for now. FAQ.

- Can I start using iRODS? (production)
  - NO.
- So, what the point with this presentation?
  - You have to start getting familiar with it. Next week, we will go deep into iCommands.
- Can I have this presentation in pdf, please?
- more questions?