EOS

- Permissions on your personal area
    - ♦ `eos chmod -r 750 /eos/atlas/user/l/login` makes the directory readable by the whole ATLAS group, but not by other users
    - ♦ `eos attr set user.acl="u::rx" /eos/atlas/user/l/login` give access to any of your directories to specific users

- Getting your quota on EOS:
    - ♦ `eos quota | grep -A 4 "Quota Node: /eos/atlas/user/$" | head -5`

- How to list a directory in EOS:
    - ♦ `eos ls [-l] /eos/atlas/user/l/lchen`

- Copy file to EOS:
    - ♦ `xrdcp local.file root://eosatlas//eos/atlas/user/l/lchen/`

- Copy directory to EOS
    - ♦ `xrdcp -f -R test/  root://eosatlas//eos/atlas/user/l/lchen/`

- Reading files from your EOS:
    - ♦ `xrdcp root://eosatlas//eos/atlas/user/l/lchen/file.name .`
    - ♦ `TFile *file = TFile::Open("root://eosatlas//eos/atlas/user/[l]/[login]/file.name");`

- xrdcp will create automatically al non-existing directories specified in your path:
    - ♦ `xrdcp local.file root://eosatlas//eos/atlas/user/[l]/[login]/dir1/dir2/dest_file`

- If you just need to create an empty directory, you can choose two options:
    - ♦ `xrd eosatlas mkdir /eos/atlas/user/l/lchendir1/dir2/...`
    - ♦ `eos mkdir /eos/atlas/user/l/lchen/dir1/dir2/...`

- Deleting files and directories on EOS
    - ♦ Delete files: `eos rm /eos/atlas/.../filename`
    - ♦ Delete directories `eos rm -r /eos/atlas/.../directory_to_remove`

- Don't use mv (move) on eos

```
"Moving" files or directories on EOS is NOT supported.
You can copy from one plece to another, you can delete but you cannot move.
This is like this by design: moving would imply an actual recalculation of the accounting
(which is based on paths in EOS) and this would crash the system.
```

- Go to EOS:

```
[lxplus439] /afs/cern.ch/user/l/lchen/Dilep_cutflow/mySrc > eos
EOS Console [root://eosatlas.cern.ch] |/> cd /eos/atlas/user/l/lchen
EOS Console [root://eosatlas.cern.ch] |/eos/atlas/user/l/lchen/> ls
data11_7TeV.00180710.physics_Egamma_E
mc10_7TeV.105200.T1_McAtNlo_Jimmy.merge.NTUP_TOP.e598_s933_s946_r2302_r2300_p572
EOS Console [root://eosatlas.cern.ch] |/eos/atlas/user/l/lchen/> .q
```

- mount EOS

```
You can also mount EOS on your filesystem and copy there with xrdcp or
dq2-get (writing on a mounted filesystem is somewhat slower than xrdcp
on a remote server, but for small datasets it's really handy):
[gnegri@lxplus310 ~] mkdir eos
```

```
[gnegri@lxplus310 ~] eosmount eos
[...]
[gnegri@lxplus310 ~] dq2-get -H eos/atlas/user/l/lchen/dest_dir/<dataset_name>
 Like this, you don't have to care wher your dataset is on the grid (dq2-get will care for y
```

- EOS help: `eos help`

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