Xrootd status and ongoing/future work
(2 weeks status report)

Pavel Jakl

Pavel's and Jerome's meeting
10.4.2006

Outline
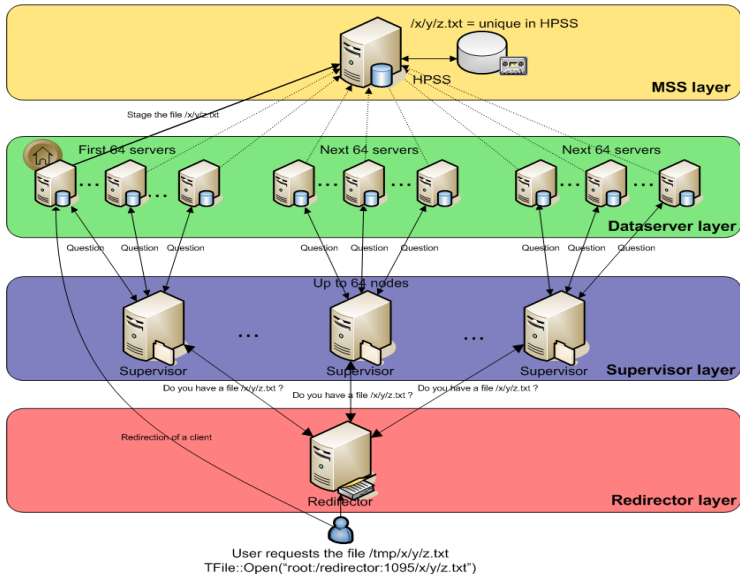
1. Summary of done work

2. Ongoing/future work

Summary of my work

1. implementation for script passing requests to DataCarousel
2. using instance name which help to play tricks in configuration file
   - can now also maintain only one configuration file
   - still need to find out how instance name affects communication of xrootd and olbd
3. switch-off the redundant double authentication
4. prepared to deploy new development version
   - have been screwed up with many things:
     - known bug that dataserver were badly doing their free space computation (different units of Bytes)
     - olbd couldn't start on redirector node (affected by static linking of xrootd)
     - xrootd redirectors doesn't broadcasting message to stat file
     - using localroot (/home/starlib) doesn't work (next bug ?)

XROOTD configuration/auto-configuration

Ongoing/feature work

- prepare TEST environment with few nodes and one redirector
  - new configuration file, records into crontab
  - Estimation: 2 hours
- deployment of a stable version to test DataCarousel business
  - changes to the old stable version, re-configure MSS plugin (already done)
  - Estimation: 4 hours
- run tests on DataCarousel business
  - Estimation: 1/2 hour and continuous
- need resolve purging issues
  - Estimation: 1/2 of day
- put xrootd into production mode
  - is there any other issue ?

Continuing. . .

- process the old I/O statistics of un-coordinated requests
    - process, i.e perl script to parse needed values
    - want to use ROOT histograms (implies learn how to use them)
    - Estimation: 1/2 day
- event/sec measurement of NFS/XROOTD compare to running jobs
    - macro is almost prepared
    - run test, make histograms (problems of jobs synchronization)
    - Estimation: 2 day
- write proceedings for CHEP conference
    - first draft sent to you
    - after your comments, send to Arie, Alex, Andy
    - Estimation: 7 day + comments

Continuing. . .

- measurement of faul-tolerance
  - need to wait for testing of logger to get results for rootd
  - after switching to xrootd, measure the results and make a plot
  - Estimation: 2 days