

FAX SITE INTEGRATION STATUS

2012-06-22

DCACHE SITES

Each server running dcache xrootd door must:

- Open port 1096
- Have access to LFC server
- Have valid atlas proxy
- Properly installed and setup N2N translation plugin

Number of people is not comfortable with this idea

- We could me one external service doing N2N
- That would require a bit of development

N2N currently caches nothing

- Will investigate how efficient lfc-xrd one was
- Load on LFC servers unknown. Will talk to its CERN admins to find out.

dCache version	N2N plugin status
1.9.5.x	won't work
1.9.6.x – 1.9.12.12	probably could be made to work but would require development
1.9.12.12 +	works. tested on 1.9.12.18rc
2.X	Works. Tested on 2.2

DCACHE SITES INSTRUCTION

1. get plugin from : <http://ivukotic.web.cern.ch/ivukotic/dropbox/>
 - ▶ atlas-name-to-name-plugin-1.0.0.tar.gz is for 1.9.12
 - ▶ atlas-ns-mapping-1.0-SNAPSHOT.tar.gz is for 2.2
2. create directory : ***lopt/d-cache/share/plugins***
3. unpack tarball in it so it looks something like this:
lopt/d-cache/share/plugins/atlas-name-to-name-plugin-1.0.0 >ls
-rw-r--r-- 1 ivukotic mwt2 7.3K Jun 19 18:28 atlas-name-to-name-plugin-1.0.0.jar
-rw-r--r-- 1 ivukotic mwt2 711K May 16 10:36 cog-jglobus-1.8.0-1.jar
-rw-r--r-- 1 ivukotic mwt2 44K May 28 15:29 commons-logging-api-1.1.jar
-rw-r--r-- 1 ivukotic mwt2 3.9M Jun 7 19:47 dcache-production-1.9.12-18.jar
-rw-r--r-- 1 ivukotic mwt2 85K Jun 3 16:45 vlet-glite.lfc-1.0.1.jar
4. add this line ***export LFC_HOST=uct2-grid5.uchicago.edu*** to ***lopt/d-cache/bin/dcache*** (or whatever is your LFC_HOST)
5. have a cron job generating atlas proxy each 96 hours. The n2n plugin looks for the default name proxy ***/tmp/x509up_u0*** so make a symbolic link to the one re-generated by the cron job.
6. add the line: ***xrootdAuthzPlugin=atlas-name-to-name-plugin*** to the end of ***lopt/d-cache/etc/dcache.conf***
7. restart the service. In my case like this:
8. ***sudo ./dcache restart xrootd-uct2-s6Domain***
9. try to access file:
 1. ***xrdcp -f root://server:1096/pnfs/uchicago.edu/atlasdatadisk/user/ilijav/HCTest/user.ilijav.HCTest.1/group.test.hc.NTUP_SMWZ.root /dev/null***
 2. ***xrdcp -f root://server:1096/atlas/dq2/user/ilijav/HCTest/user.ilijav.HCTest.1/group.test.hc.NTUP_SMWZ.root /dev/null***

DCACHE – TO DO

- ▶ Production(-like) environment testing of both plugin versions.
 - ▶ MWT2
 - ▶ DESY
 - ▶ LRZ and Wuppertal
- ▶ Proper plugin code management
 - ▶ Plugin uses lfc4j which is not properly managed
 - ▶ Discuss its inclusion in dcache
- ▶ Deployment.
- ▶ Accessing data through dcache xrootd leaves us without central monitoring. We'll try to get all the storage technologies come up with a common format of monitoring packages (something like or exactly like xrootd ones). Probably 6 months time scale.

XROOTD IN DPM

- ▶ Ricardo and Wahid (Edinburgh), Sam & David (testing at Glasgow)
- ▶ Requirements:
 - ▶ DPM 1.8.3 or later.
 - ▶ Ports:
 - ▶ 1094 for the Head Node
 - ▶ 1095 for the Disk Nodes
 - ▶ Another port for each federation that would like to join.
 - ▶ N2N translating library (xrd-lfc XrdOucName2NameLFC.so)
- ▶ <https://svnweb.cern.ch/trac/lcgdm/wiki/Dpm/Xroot/Setup>
- ▶ Test still underway. No running system yet.
- ▶ Setting monitoring should be exactly the same as for standalone xrd

PANDA ACCESS TO WAN PRICE MATRIX

- ▶ Provided through 3 asp addresses.

- ▶ Shown in SSB:

<http://dashb-atlas-ssb.cern.ch/dashboard/request.py/siteview#currentView=Network+Measurements&highlight=false>

We need a realistic load on the federated sites. We better have this ASAP.