

SAM (REX/Ops) Operations Meeting 2008.06.10

Adam (typist), Parag, Eric, SteveW, JerryG, SteveS, Robert, Dave, Angela, Julie, Randolph
Meeting time 56 minutes
Posting these minutes resolves DZSAM-94.

For reports submitted to the meeting...

The report text is in this font

Comments made during the meeting are in this font inline with the report

Releases:

Radically Cool version tracking in JIRA SAMDev project - more fun to play with JIRA than to do real work.

DØ:

Events & questions :

--- June 4: "Inspired" by ticket 3894, Robert has removed pnfs loctions for 267K p17.07.01-processed files on tapes that had been recycled.

Dehong forgot to remove DB locations for everything earlier than p17.09. Robert fixed the DB. Of course the poor user still can't get the file, but at least now SAM doesn't lead him/her on.

--- Also on June 4, a user wanted to change the "type" of a "keyword" but there is no sam command to do so. Robert edited the database to change it.

--- It seems to me that tickets are now sent to JIRA, instead of the old Plone3.

I read last week's minutes and went to <https://fermilab.onjira.com> and hit "forgot password" to get a new (local ?) password to login (successfully), and I've received a lot of JIRA emails since ~weekend.

-- Shifter (sonne@fnal.gov) is having problem with JIRA. He said "My JIRA password seems not to work. A new reset password, sent by an automated email does not work either. "

Apparently it worked on the second try. No shifters really need to be using JIRA yet.

--- Question: Should `alreadyCache_clued0.py` work in `d0mino0x.fnal.gov` ? <http://d0db-prd.fnal.gov/sam/alreadyCache_clued0.py> (It worked in `clued0` machines but not in `d0mino0x` at the moment. and the other `alreadyCache_cabsrv1/2.py` work in `d0mino0x`.)

No - you cannot run the test job for Clued0 on a non-clued0 machine. Run it on a clued0 machine.

Unresolved issues :

DZSAM-92: Files to be marked bad. I hope the next shifter (sonne@fnal.gov) would see this and he'll need to be able to login JIRA to mark it as resolved, which he has problem at the moment.

Actually, Herb put in the ticket because he did this. He needs to resolve the tickets.

DZSAM-88: I believe Adam is writing the documentation ...

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*DZSAM-73: Need to come up with a better way to reap stale globus job managers

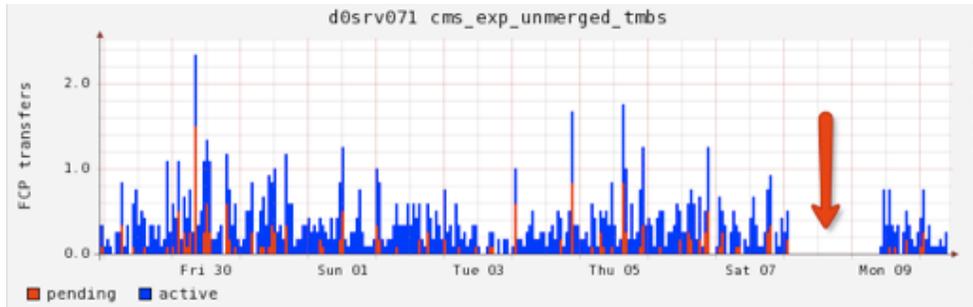
Plone3 #3906 : "Problems with jobs submitted through samgrid" --- Mike seemed to have problems in starting his jobs from d0farm.

Is this ticket similar to JIRA ticket "DZSAM-62" (I'm not sure after reading a bit) ?? Anyone working on this ?
Yes - was hitting the limit like in DZSAM-62.

For JIRA - Adam will write some documentation this week and hopefully we'll change over early next week or late this week.

d0srv071: RAID array on this machine froze - so every access trying to access it hung - lost lots of projects. Since there was no i/o error, SAM station didn't notice this. SAMGrid was trying to get files from here. No monitoring picks this up - symptom of the jobs is that jobs just time out. Sam stager was alive, and fcp was responding but not delivering. Run2sys kicked on Monday.

The Fcp monitor did show a gap.



D0 has switched from LTO2 to LTO4 tapes for everything except for Raw! No problems reported. Reviewing file families - since these tapes are so large, we may have too many file families for efficient tape usage.

CDF:

This is a summary of my SAM shift.

Tue June 3: The shift started with several known problems

4 read pools on fcdpdata154 are offline.

3 write pools on fcdpdata157 are offline.

2 bad movers: 9940B22, 9940B26

Of these, the only problem solved this week was the return of 9940B26 on Friday.

Tue June 3: Bad Tape IAB455 causing Bad Mover LTO3_31

The tape needed a new label and was back on Thursday.

Tue June 3: A user had problem with stuck processes.

This was possibly due to r-fcdpdata135 misbehaving again.

Thur June 5: The automated check_file_size_and_CRC job had 11 file size differences between SAM and Enstore.

Fri June 6: The check_file_size job reported 13 differences.

Randolph has discovered that there are multiple copies of a file with the same name with different sizes and CRC values. Which one we get is indeterminate. Deleting the file doesn't help since the other copies are still there. Need some way to delete all instances from enstore. Make this a JIRA ticket.

Fri June 6: Diskpool doors would intermittently be flagged as not responding then come back.

Fri June 6: Cell offline r-fcdpdata097-1

From Angela: The pool refuses to come back up.

Sat June 7: Bad Mover: LTO3_04 OFFLINE

This was brought back on Monday.

Mon June 9: The check_file_size job reported 60 differences, many of them large {up to a Gigabyte}.

Mon June 9: More intermittent diskpool doors not responding.

Mon June 9: From Alex Kulyavtsev about r-fcdpdata097-1

now all three pools on node 097 are disabled with message "Repository got lost!". I'm restarting pools

Mon June 9: From Angela:

Clisam and clmeta on b0csi21 will not stay alive.

Angela: Diskpool admins are changing from kerberized door access to weak door access, but users were never consulted. Now have 5 kerberized and one weak. On 6/12 Will switch to one kerberized and one weak and reconfigure

the other ones. Later on 6/12 will have 5 weak and one kerberized. Users are complaining, but relenting to their fate. Resistance is futile. May have to do work on the underlying handling of file names (auto picking of the doors). Since SAM does not deliver files from the diskpool, we don't think there are any SAM specific issues. But there may be DH handling issues at large.

Eric: Has a script to examine the loading of the cdfopr2 DB. Found a user trying to recover projects (we think that SAM/CAF is operational, but documentation has not been updated). USE_SAM_METADATA switch was set, and that forces requests to go to the cdfopr2 instead of the SAM station, and that was overloading the DB to a huge degree. User has been educated. Ask Krzysztof about the SAM/CAF interface and how to use it.

MINOS:

Art is away so no report.

Robert: The latest version of the station caused file deliveries to lock up. Robert found that the latest station version does not handle constrained file deliveries and station routing like it did before. Workaround is to remove the constrained delivery flag (which they don't really need -- don't really need the route options either). See SAMDEV-10 (low priority). Not sure if Art has tried the work around yet.

DB:

Alert(s):

- Message=Tablespace [OPERATIONAL_IDX_01] is [80 percent] full

Action: Added 6GB

- Message=Tablespace [SAM_LOBS] is [80 percent] full

Added: 1GB

CDF :

MINOS:

- Scheduling Oracle's Quarterly patch on minosprd June 19th

The date of this downtime needs to be confirmed!

dCache/enstore:

Scheduled Downtimes:

o stken - Thu, Jun 19, 8 am - 4 pm

- public enstore s/w upgrade to SDE

o fndca - Tue, Jun 24, 8 am - 4 pm

- public dcache s/w upgrade to release 1.8

o d0en - Tue, Jul 1 (??), 7:30 am - 11:30 am

- ADIC AML/2 maintenance

Operations:

o d0en

- Scheduled downtime and enstore s/w update went smoothly. A small bug was introduced by the update; it was fixed by a patch installed Thursday, and all services were restarted, including movers.

- ADIC determined that the Robot 2 arm in the AML/2 needs to be replaced. This will require a downtime, in July if possible.

- Shortly after the downtime, both robot arms became "not ready". The robot was shutdown and restarted, 18 movers were restarted.

- Later that evening, Adam reported that there were hardly any active LTO2 drives, despite a lengthy queue. The library manager was restarted, and activity resumed.

- 18 LTO4 drives in FCC SL8500 released to users by changing the pnfs library tag under /pnfs/sam/dzero/db5. Currently writing to 79 tapes in 38 file families.

Meeting tomorrow to talk about reorganizing file families. (New LTO4 tapes are 800GB). Meeting at 1pm tomorrow FCC2(A or B).

o cdfen

o cdfdca

- Alex reported hardware problems on fcdldata097, fcdldata110 and a disk space issue on fcdldata108 to CDF-DH
- Pool r-fcdldata135-1 was restarted due to incorrect disk space accounting

o stken

o fndca