

**** 2007.01.30 Meeting******* D0**

RAID Failure on d0rsam01.

***** CDF**

Have problem at CDF that a file is released twice and a corba error is generated.

Farm normally writes to production data sets - since Friday, write instead into LTO3 into test datasets. Rates are extremely slow.

Some files are intermittently not being stored to tape for some reason. CDF storage program calls these duplicates (since the file metadata is in SAM). There are about 140 files in this situation. For some files, FSS seemed to forget about some files. Robert thinks there's a bug in FSS - if a file does get stored in enstore but not declared in the SAM DB, and then try to redo the store, FSS could delete the file from pnfs. Robert says FSS should never erase from PNFS (this happens because the stager has a general clean up procedure that deletes a file when an error condition is returned. In this pnfs case, this is bad.

See note in DB section about listener changes.

***** MINOS******* DB**

d0oral went into single user mode yesterday with a CPU cache error. On advice on SUN will watch if it happens again. If it does then SUN will replace CPU.

CDF says 3/15 for the security patch.

D0 patches and listener tuning will occur on 3/6.

CDF TNSListener did get changed - no further connection errors!!
SUCCESS!

***** enstore/dCache**

What does CDF want to do about putting tapes in the D0 robot?

Brief D0 downtime on 2/6 to update software.

David will send mail about details of the software upgrade so D0 and CDF can evaluate the need for a downtime.

Public dCache - splitting up pools into bite-sized chunks

From: Daria Zieminska <daria@indiana.edu>
 Subject: Re: SAM Operations Meeting tomorrow (Tuesday) 9:30am(!) Racetrack
 88SAMDH
 To: Adam Lyon <lyon@fnal.gov>
 Cc: sam-design@fnal.gov
 Date: Tue, 30 Jan 2007 07:38:22 -0500 (EST)

D0 Sam shift report Jan 22 -- Jan 29 2007

2558. delivery failures
 Assigned: AAD0SAMexpert, abaranov, illingwo, lyon
 Delivery failures in the sam logs. Can't fetch
 zerobias dataset files from general-router. I am seeing this at luhep
 and ouhep.
 A. Baranovski:
 I have temporarily enabled d0srv063 as the machine for staging data by
 both refix-router general-router. The data traffic should resume.

2556. refix-router is hung
 Assigned: AAD0SAMexpert, DOSAMonshift, illingwo
 Hi, I could not get any files delivered to CCIN2P3 through refix-router
 on d0rsam01 since ~ 10:15AM. On the station dump for refix-router
 all disks are marked inactive.
 Robert: It's not the station: d0rsam01 is giving I/O errors on both the
 /sam/cachel and
 /sam/cache2 disk partitions. This will have to go to the sysadmins...
 Resolved? (User has not responded)

2553. problem when getting file from tape
 DOSAMexpert
 Hello, I have a problem when getting file:
 d0_RTE_runjob_p17.09.07_d0reco.tar.gz from dataset :
 d0repro_jobfiles_p17.09.07_samgridV7-1 to d0_fzu_prague2 sam station
 cache.
 Command for storing file to cache...
 Full log from staction log

From last week:

2550. Re: SAMGrid monitoring
 Assigned: AAD0SAMexpert
 Folloup by Parag. Resolved?

Daria

From: Krzysztof Genser <genser@fnal.gov>
Subject: CDF SAM/DH Shift Report 01/23/07 - 01/29/07
To: sam-design@fnal.gov
Date: Mon, 29 Jan 2007 22:40:39 -0600

CDF SAM Shift Report 01/23/07 - 01/29/07

several movers in bad state over the course of the week;
tape IA3032 (9940B hbhd0d) in NOACCESS state for several days

01/27 ~01:30 fcdldata096 readPools node unpingable; addressed by JH
of (CD/SF/FEF) in response to helpdesk ticket 91717 by rebooting at
~11:20 on 01/29 the last log messages before reboot showed a
microcontroller error on a raid that went into degraded mode. probably
related to the crash.

No dbservers restart was needed after DB listener tuning/restart on 01/25

Krzysztof

From: Arthur Kreymer <kreymer@fnal.gov>
Subject: Minos status 2007 Jan 30
To: sam-design@fnal.gov
Cc: minos_sam_admin@fnal.gov
Date: Mon, 29 Jan 2007 17:59:24 -0600 (CST)

Minos -
Monte Carlo import continues, 1.5 TB so far, to 150 GB/day.
Adding further file integrity checks,
after getting some files with correct size but 0 byte content.

Recovered from Thursday 23 Jan 06:00 network switch work.

Enstore -

DCache -
Grid certificates on some hosts expired Thursday morning,
halting farm and MC import operation.
Corrected Friday noon.
Required new certificates and restart of servers in DCache.

One corrupt 'cand' file found in DCache write pool, removed.

SAM -
IT 1894 Need 'sam locate' in C++ API - progress ?

Oracle -
dev/int/prd January quarterly Oracle patches done. Thanks !
dev/int/prd buffers and TNS tuning done. Thanks !

OPEN ISSUES

IT 1894: sam locate via C++ api, for simple client needs
IT 1979: Compiler warnings from sam_cpp_api
IT 2071: quadratic project startup time growth (from Nov 1 2005)

PLAN -

Migration to 9940B tape can proceed anytime... when ?
New cache space scheduled February 15
Update sam dbservers to v8

From: Anil Kumar <akumar@fnal.gov>
 Subject: DB News
 To: sam-design@fnal.gov
 Date: Mon, 29 Jan 2007 10:01:58 -0600

Jan 2007 Oracle Critical Patch has been released. Planning to deploy this patch along with OS patches and Listener tuning patches on d0, cdf and minos databases.

Schedule : d0ofdev1 - Jan 25 Ora-2000 Patch done
 jan 30 4 hrs starting at 8AM OS and Security Patch

d0ofintl/d0ofprd1 - Mar 06 ORA-2000 , Security Patch and OS patches

cdfofdev/cdfofint - Jan 24 Done
 cdfofpr2 - ?

Minosdev/minosint - Jan 23 - Done
 Minosprd - Jan 25 - Done

D0 :

d0oral -> On Jan 29, system went into single user mode. Cause is not known yet.

Alerts :

- Message=Tablespace [EVENTS_P59] is [86.57 percent] full
 Action : Added 2 GB

- Mon Jan 29 03:21:01 CST 2007
 Information for: d0ofprd1

Owner	Object	Type	Extents Used	Extents Allocated	Extents Left
SAMPRD	EC_EVENT_FK_I	INDEX	1496	1500	4

Action : Increased the max extents to 3000

- Drop the index on data_files on file_name column - Pending
- v6_4 index on create_date of data_files against d0ofdev1 done
- Draft Plan to remove the events : http://www-css.fnal.gov/dsg/internal/d0_of1_dbs/plan_to_remove_events_from_d0_of.htm
- Service Request with Oracle on Full table scan Vs Index scan on data_files_param_values.
 Development is working on Bug Fix. Bug# 5601578 No time estimate yet for bug fix.

CDF :

- Jan 25 Network outage - Listener tuning patches on Jan 25 - Done
- Alerts
- v6_4 index on create_date of data_files against cdfofdev - done
- Full cut of V6_3 pending on cdfofint and cdfofpr2.

MINOS :

- Schedule 1/23 : V6_7 altering the cache size of SAM sequences on minosdev/minosint - Done
 1/25 V6_7 altering the cache size of SAM sequences on minosprd - Done
- v6_4 index on create_date of data_files against minosdev - done

From: David Berg <berg@fnal.gov>
 Subject: enstore/dcache report
 To: sam-design@fnal.gov
 Cc: enstore-admin@fnal.gov
 Date: Mon, 29 Jan 2007 19:28:52 -0600 (CST)

enstore/dcache report
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Operations

- o CDF
 - We are arranging moving 500 of their LRU 9940B tapes to the d0en silo served by 1 drive, and loading 500 blanks into the CDF silo.
- o public dcache
 - Thursday's stop/start cycle revealed some procedural issues that have been addressed.
 - SRM problems reported by Minos and others took two steps to fix:
 - a. install current grid certificates
 - b. restart SRM door to flush any cached certificates.
 - Read pools are being cycled thru one at time, taken offline and split into pools < 1 TB. Pools on 12a were done Monday.
 - There was CRC mismatch on a Minos file in a write pool. Minos has removed and rewritten the file.
- o GCC (SL8500)
 - Sources tell me the tape robot room has been cleaned.

Downtimes

- o Feb 6, 1st Tuesday, D0 enstore
 - enstore s/w update, should take 1/2 hour
- o Feb 14 (?), 2nd Wednesday, CDF enstore
 - enstore s/w update, should take 1/2 hour
- o Feb 15, public enstore, 2 hours(?)
 - upgrade stkensrv0 (volume/file database)
- o Feb 15, public dcache, all day
 - reconfigure all pools to ~1 TB each (some files will be moved, but none should be lost)
 - 4 new pool nodes (~5 TB ea) will be split between Minos, exp-db (Minos keeps their existing raw data write pools; Minos, exp-db to no longer write to shared pools)
 - configure and turn on gPlasma for grid certificate authentication

Thanks,
 David

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> Date: Mon, 29 Jan 2007 10:35:52 -0600
> From: Adam Lyon <lyon@fnal.gov>
> Subject: SAM Operations Meeting tomorrow (Tuesday) 9:30am(!) Racetrack 88SAMDH
> To: sam-design@fnal.gov
>
> Hi,
>
> We'll have our regular meeting tomorrow (Tuesday) at 9:30am in the
> Racetrack (88SAMDH). The regular agenda is...
>
> 1) Project news/releases
> 2) D0
> 3) CDF
> 4) MINOS
> 5) DB
> 5) enstore/dCache
>
> Please send the regular report to me and sam-design before the meeting
> (if possible). Thanks!
>
> --- Adam
>
> --
> Adam Lyon (lyon@fnal.gov)
> Fermi National Accelerator Laboratory
> Computing Division / D0 Experiment
> Running Experiments Operations Group Leader
> 630-840-5522
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