

SAM (REX/Ops) Operations Meeting 2008.08.26

Adam (typist), Art, SteveW, Krzysztof, Robert, Angela

Meeting time: 25

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:

The roadmap in JIRA is empty. No new releases. No pending work! Robert will send the announcement for client 8.5.0.

DØ:

Shift Notes:

No SAM shifters in the weekend (Aug. 22-24).

Unresolved issues:

DZSAM-225: d0srv071 does not deliver files (newest from Willem) SteveS and Andrew say that the problem is with the Imperial SRM (trouble authorizaing with a service cert). D0srv071 seems to be fine.

DZSAM-224 : samgrid.fnal.gov having serious problems --- may be disk problem (RAID) ? Check if Steve has fixed the degraded array.

DZSAM-54: Good progress. Jobs are forwarded, submitted and launched correctly in Lancaster but just files not copied by srm to dcache.

CDF:

Hi,

This is a summary of my SAM shift. Basically very quiet.

Tue Aug 19: fcdldata098 is back in service after hard drive replacement and array rebuilding

Tue Aug 19: There were upload errors from fcdldata322 that required a dataset registration. Fixed the next morning.

Tue Aug 19: At start of shift mover LTO3_10 was down. At the end of the week it was

reported:

The mover remains down pending completion of the service call.

Sat Aug 23: Due to a problem with the SL8500 at GCC, the CDFEN LTO3 tape library is

currently offline. A service call has been placed with Sun.

A few hours later it was reported:

The CDFEN and STKEN LTO3 tape libraries on the GCC SL8500 were placed

back in service at approximately 10:40am, and transfers have resumed.

The cause of the outage appears to be the bot's temporary difficulty gripping a tape on dismount. The situation will be monitored

Sun Aug 24: Around 9:30 at night:

Due to another failure of the SL8500 LTO3 library at GCC, CD-LTO3 and CDF-LTO3 libraries have been paused. A service call has been placed with Sun. I will send updates when more is known regarding the situation.

Then a few hours later:

The libraries were placed back in service around 11:30pm. The cause of this outage was a tape stuck in the gripper

Mon Aug 25: Various tapes marked NOACCESS and various LTO4 movers OFFLINE.

All tape and LTO4 errors cleared by end of shift.

MINOS:

General

Enstore -

DCache -

SAM -

Added an EVENT_COUNT dimension in production

Was mentioned last week. It's done now! Only MINOS has this now.

```
samadmin add dimension \  
--name=EVENT_COUNT \  
--table=data_files \  
--column=EVENT_COUNT \  
--type=number \  
--desc='select DATA_FILES EVENT_COUNT'
```

Oracle -

OPEN ISSUES

IT 1146: cannot test existence of sam tape location

IT 2071: quadratic project startup time growth

A new user registered under the MINOS group. But he did not show up in the database (nickd). Maybe there's a spurious blank. Watch capitalization. Robert/SteveW says he's there without any strange spaces or special characters - so he's in the DB but is not matching.

PLAN -

DB:

D0:

Alert(S):

- Added 2GB to Tablespace [SUPPORT_01] was [84.39 percent] full

- Added 6GB to Tablespace [OPERATIONAL_IDX_01] was [80 percent] full.

Owner	Object	Type	Extents Used	Extents Allocated	Extents Left
SAMPRD	APROC_C_FK_I	INDEX	1196	1200	4

Action : Increased the max extents to 2400

SAMPRD	FI_CT_FK_I	INDEX	396	400	4
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Action: Increased the max extents to 800

CDF :

- Need to schedule downtime for cdfopr2 for DB security patches.

Tentatively 9/18. Angela will send mail to Anil.

Enstore/dCache:

From the 8/25 CD Ops report

Enstore Operations report

- Release Management:

+ Scheduled Downtimes:

Oracle -

Stken downtime: Thursday 8/28 at 8:30 AM upgrade the Movers and

Library Manager code. Swap a disk on a RAID. We to clean up the cables during this downtime. We expect this to be a 4 hour downtime. This is a list of what will be down:

Enstore CD-9940B.library_manager on Stken.
Enstore CD-LTO3.library_manager on Stken.
Enstore CD-LTO4G1.library_manager on Stken.
Enstore/Dcache PNFS on Stken.

Uh oh - this means that MINOS will be down. Last week Stan said that PNFS would not be down.

Dcache on Stken.

- Problem Management:

+ Unscheduled Downtimes:

- Attempted to fix SL8500#3 Cap last week. Failed to fix, more parts ordered and will work on it Monday. 3.5 hours down.
- Weekend call on Saturday, Bot alarm on SL8500#1, Sun came onsite and reset the Bot, the thought was a tape drive had a stuck tape. 5 hours down.
- Weekend call on Saturday night. Bot alarm on SL8500#1, same as earlier in day. Sun came out and replaced the Bot. 3.5 hours down.

- Capacity Management:

LTO4 order of tape drives is here. Will have them installed in their new homes by Sun.

101 9940A tapes (recycled from migration) clobbered to supply 9940B blanks for D0.

- Incident Management:

We have 1 public dcache raid issue, we have a 3ware card on order from Koi to fix it. 2 readonly pools down.

We have a bad spare drive on an Enstore server raid that will be replaced this Thursday.

We had the CDF FCC LTO-4 library manager become unresponsive, it was restarted.

Data Integrity:

Stken downtime: Thursday 8/28 at 8:30 AM upgrade the Movers and

Historical report (a work in progress):

7/14 7/21 7/28 8/4 8/11 8/18 8/25

17 | 21 | 48 | 5 | 25 | 4 | 36 | enstore mover interventions
20 | 34 | 50 | 30 | 24 | 6 | 0 | tape incidents
1 | 1 | 1 | 0 | 2 | 1 | 3 | library hw incidents
0 | 0 | 1 | 1 | 0 | 1 | 0 | tape drive hw incidents
0 | 0 | 0 | 5 | 1 | 0 | 0 | enstore mover hw incidents
0 | 0 | 2 | 1 | 0 | 1 | 1 | enstore server hw incidents
2 | 0 | 0 | 0 | 0 | 0 | 1 | dcache pool hw incidents
0 | 0 | 0 | 0 | 0 | 0 | 0 | dcache server hw incidents
0 | 0 | 0 | 0 | 0 | 0 | 0 | pnfs hw incidents
3 | 3 | 0 | 3 | 0 | 1 | 0 | dcache sw incidents
0 | 1 | 0 | 2 | 0 | 1 | 1 | enstore sw incidents
0 | 0 | 0 | 0 | 0 | 1 | 0 | enstore config incidents
1 | 0 | 0 | 0 | 0 | 0 | 0 | dCache config incidents

7 | 4 | 0 | 0 | 2 | 0 | 12 | unsched enstore outage (hours)
0 | 0 | 0 | 0 | 0 | 0 | 0 | unsched dCache outage (hours)

- Migration work flow status:

LTO1 Migration: 0 / ~1200
LTO2 Migration: 1992 / ~8500 (many duped but scanned.)
9940A Migration: 1728 / ~4500
9940B Migration: 0 / ~24000
LTO1 Migration: 0 / ~1200

<http://tinyurl.com/5hqowe> = 3480 daily
<http://tinyurl.com/65y6s8> = 3480 cumulative
<http://tinyurl.com/6ra4cr> = 9940 daily
<http://tinyurl.com/5u9tlo> = 9940 cumulative

(The original links are at the end.)

- SSA group is interviewing for a Full time position. Interviews and phone screens in progress. Interviewed Christian Carthers on Friday 8/22 at 1 PM. Still searching.

~~ENCA~~ Integrity:

~~SN~~ kendca16a data node developed RAID problems, was diagnosed by dCache

developer, addressed by SSA.

CDFDCA

CDF reported that fcdldata147 is offline.

The machine is working, but dCache is not operating there.

Special: Power outage on 9/18 at GCC

- Thursday, September 18th -- GCC Power Outage
- 480V repair, testing, maintenance - **no generators**
- CRA 1-3 hours, CRB 2-8 hours (CRA = computer room A)
- will bring cooling switch boards back first
- expect GCC networking & tape libraries to remain up on UPS
- GCC/CRC and LCC 480 maintenance tbd (Sept. 17, 18, 19)
- try to schedule LCC 13kV maintenance with LCC 480V maintenance
- date still tentative based on availability of FESS resources

Stkendca16a data node developed RAID problems, was diagnosed by dCache