

SAM (REX/Ops) Operations Meeting 2008.03.04

Present: Adam (typist), Angela, SteveW, Randolph, Eric, Jerry, Robert, Andrew, Krzysztof + lots of others due to tornado drill

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:

No new releases. SteveW knows Ajax - watch out!

DØ:

Events worth mentioning:

DB is current down for scheduled downtime.

ADIC robot is down since yesterday due to problems (replacing arm)

Mar. 1 (Sat): Shift noticed Enstore SAAG page has RED balls for all movers and went green later. It turned out that one of the servers went down (due to kernel panic). Ken Schumacher rebooted the server --> all balls green again.

Thursday (Feb. 28) : d0ora1 was back up after OS patching (from Steve Kovich).

Thursday (Feb. 28) from Anil Kumar:

Global Temporary table NUMBER_PAIRS has been cut on all d0, cdf and minos databases as requested by Randy Herber.

Also index on end_time column on cached_files table as requested by Steve W.

Unresolved issues:

#3402: "SAM delivery problems at cabsrv1 since one week" --- is this problem being looked at or you guys are still too busy ?

Delivery problems on cabsrv1 from last week - repetition of the problem of the DB server suddenly deciding that it could not talk to Oracle (though other DB servers worked fine). Robert asked if all was well and got no response. Must be a bug in the Oracle client or cx_oracle. Symptom is that every connect fails with an error (ORA-12545) that says that the DB is unavailable (target or host does not exist). Other DB servers on the machine is working. Solution is to restart the DB server.

Randolph says that perhaps the connection URL is corrupted by something and that

causes the error. Not sure yet.. Perhaps the TNS listener is logging this problem. Ask Anil

All is working now though.

#3404: A user complaining about file non-delivery problem earlier but probably fixed --- asking him to confirm.

Same as above - but different user.

#3398: delivery failure from dodge.hep.man.ac.uk:/data1/sam/durable --- Can we do something about this one ?

We'll look at this one next.

#3397: Farm complaint about file delivery problems from Enstore --- Is this problem resolved or not ?

Bug in Runjob software sent unmerged thumbnail files to tape instead of durable location disk (many thousands of very small files). Reading these files back overloaded the sam station. And then a tape went NOACCESS. Mushroom cloud followed. And on one tape, enstore overwrote the beginning of the tape making the entire tape unreadable. Fortunately files can be regenerated.

Runjob bug was fixed. No new writes to tape since 2/27. Robert copied the files by hand back on to the disk. And he deleted the files from tape. 6 or 8 tapes used. Fortunately, these files went to their own file families. These tapes may be freed up.

Robert: SAMGrid jobs could not run because someone inserted a rule in CFEngine to change the permissions for the job temporary directories so that the user running the jobs could not write to that directory. Attempts to fix the permissions failed because CFEngine would change them back after a short time. FEF confirmed the CFEngine problem and said that they fixed it. Robert has a once-per-minute cron job to keep the permissions correct. Will check to make sure that is no longer needed.

DO oracle is back up!

CDF:

Tue Feb 26

From Angela:

This is just a heads-up that I will be migrating the SAM DBServer "test_prd" from cdfsam01 to fcdfsam7tst this afternoon.

Angela: Added parameter to dataset definition script (checks that official dataset is present in SAM) so that it checks against all of the datasets that were in the CDF

dataset registry (for insurance).

Mon Mar 3

CSL to Enstore Status is DEAD.

There are many yellow balls at Sam at a Glance and those are not pingable.

email from Geumbong :

CSL is off for CDF breaker test.

email from Angela :

This is related to CDF online systems powering down.

Angela: Offline DH was not notified of this downtime. Angela had to cleanup the system to fix files that were stuck in error state.

MINOS:

General -

AFS - Timeouts continue - providing extended diagnostics to CSI

Enstore -

DCache -

Waiting for many files to be restored from tape, since Friday 29 Feb.

No obvious sytem problems. No response from operations or developers.

Helpdesk tickets 111951 (kreymer) and 112020 (rubin)

SAM -

Ran sam_maintenance_tools/General/PurgeCachedFiles/moveCachedFiles.py with

setup sam_python v2_4_4

setup cx_Oracle v4_3_3_py2_4_4

DB	BEFORE	AFTER	TIME
dev	429973	1160	306 sec
int	191907	3060	150 sec

Oracle -

OPEN ISSUES

IT 1146: cannot test existence of sam tape location
 IT 2071: quadratic project startup time growth

PLAN -
 Migration to 9940B tape can proceed anytime

DB:

D0 :

Announcement:

- Scheduling DB, OS patches and SAM Schema cut on d0ofprd1 on March 4th - Start 7:00AM Downtime for 4 hours.
- To add composite index on lower(file_name) and retired_date
 - Drop the unique index on lower(file_name)
 - Recreate as non-unique on file_name.
 - drop the unique constraint on file_name and retired_date
 - Apply the patch 5926486
 - Applying the OS patches.
- v6_14 SAM Schema cut done on d0ofprd1 02/28/2008
 - Global Temporary table NUMBER_PAIRS
 - Index on cached_files on end_time column

CDF :

- 03/18 schedule the DB security patch on cdfopr2 and SAM schema v6_10
- v6_14 SAM Schema cut done on all databases - 2/28/2008

Alert(s):

- Owner Object Type Extents Used Extents Allocated Extents Left

 SAMPRD AP_STA_FK_I INDEX 196 200 4

Action: Increased the max extents to 400

MINOS:

- v6_14 SAM schema cut done on all databases. - 2/28/2008

Thanks,

Enstore/dCache: