** 2006.10.03 Meeting

No Project News.

No releases.

*** D0
See mail (following pages) for more items.

Down day today, Memory on d0ora2 is being doubled (32 Gig). Hope this helps.

Found another query in the request system that takes 9 minutes!! If an index hint was added, time went down to 0.03 seconds!!! DBAs sent this on to Oracle. This came from the v5 DB server logs. Not sure if it is v7. Perhaps put a hint in the code, since this is a one-of thing.

Investigate changing the threshold on the alarm file so that not filled by short queries. Randolph suggests 90 seconds.

Randolph: For these slow queries, send DB report to Randolph.

Robert – cached files table for D0 has 25M rows. Only about 1.4M refer to real files, everything else is uncached and uninteresting and incomplete history. This causes disk removal to be slow. Can we just remove files before some cut off date and modify code so that old files are not kept? Also remove rows from CACHED_FILES_PROJECT_USAGES due to foreign key complaint. Randolph – perhaps partition on the cache tag. Steve – or copy to some other table for archival [this may be difficult because of foreign keys – but maybe not]. When a station is restarted, it goes through the cached file table going looking for files with null end dates –– no index so this is a full table scan (not sure how slow this is, but it's probably not good).

Steve W. – Got mail from Tibor – Steve Muanza needs access to int DB servers. He's using an old sam_config (update clued0?) with hard coded IOR's. He's had int access before. Investigate more?

Adam – Asked about event catalog. No one so far says they need it. Online system keeps info to regenerate entries. Perhaps plan – stop updating and revoke access – see who yells.

Parag – samgrid.fnal.gov is under maintenance today. Being moved to a cluster for grid machines to not be blocked by a firewall. Will get new IP address. Remote sites will have to update their firewall if their old entry was based on IP of samgrid.fnal.gov.

Randolph suggests a procedure for getting more information for long running queries. Instructions will follow.

*** CDF
See mail (following pages) for more items.

No problems. There are some farm issues this morning, but not sure of cause yet.

*** DB
See mail (following pages).

*** Enstore
No downtime planned for the near future. Last week was uneventful.

APPROVED
By Adam Lyon at 1:12 pm, Oct 03, 2006

From: **Anil Kumar <akumar@fnal.gov>**
Subject: DB report
To: **sam-design@fnal.gov**
Date: *Mon, 02 Oct 2006 13:00:10 -0500*

Note : 10/15/2006   Oracle's Quartely patch will be released. So in
Oct/Nov time frame
        DSG will be scheduling the downtimes for patch install.

D0 :

- Oct 03, Memory upgrade on d0ora2 to 32GB from 16GB .
 2 Hours downtime 8:00AM-10:00AM

- Analysis of SAM schema done Sep 27, 2006

- v6_4 index on create_date of data_files against d0ofdev1 done
- V6_3 cut pending on int/prd - waiting for SAM API

- Started tracking long running queries on d0 offline database which
stays in db for more than 2 minutes.
 Details : **http://www-css.fnal.gov/dsg/external/bad_queries/index.htm**
- Working on tuning of SAM query.

- Discussed the usage of "sam" user on d0ora2 with Adam Lyon, Robert
Illingworth and
 Steve W. on 31st Aug.
 http://www-css.fnal.gov/dsg/external/d0dbmtgs/2006/Aug31.htm

- Created account for Renata Figueiredo Rodrigues as SAM shifter

- Alerts :

Alerts :
Name=D0OFPRD1.FNAL.GOV
Type=Database
Host=d0ora2.fnal.gov
Metric=Tablespace Space Used (%) (dictionary managed)
KEY_VALUE=OPERATIONAL_IDX_01
Timestamp=Sep 30, 2006 7:16:39 PM CDT
Severity=Warning
Message=Tablespace [OPERATIONAL_IDX_01] is [80.02 percent] full
Rule Name=d0ora2_database_alert
Rule Owner=SYSMAN

Action : Added 8GB to OPERATIONAL_IDX_01 . Also 2 GB added to
OPERATION_O1 tablespace.

CDF :

- v6_4 index on create_date of data_files against cdfofdev done
- V6_3 cut pending on int/prd - waiting for SAM API
- Created the account for Ben Kilminster with SAM and DFC privileges

MINOS :

- v6_4 index on create_date of data_files against minosdev done
- V6_3 cut pending on int/prd - waiting for SAM API

Thanks,

Anil.
----- Original Message -----
From: "Adam Lyon" <**lyon@fnal.gov**>
To: <**sam-design@fnal.gov**>
Sent: Sunday, October 01, 2006 12:00 PM
Subject: SAM Operations Meeting Agenda

> We shall have SAM Operations Meeting tomorrow

From: **Kin Yip <kinyip@bnl.gov>**
Subject: D0 weekly SAM shift report ending on Oct. 3rd
To: *Adam Lyon* <**lyon@fnal.gov**>
Cc: **sam-design@fnal.gov**, *Daria Zieminska* <**daria@indiana.edu**>
Date: *Mon, 02 Oct 2006 15:18:10 -0400*

D0 weekly SAM Shift report:

(1) New recocert mechanism/software hasn't been set up yet. M. Ford
has been working on it.

(2) It's proven that PLONE (SAM Grid) is not working properly for the
Portuguese Language :-)
     After the SAM shifter changed to English, it worked.

Default text in your reply may be non-ascii. Plone barfs on this. Work-around is to tell browser that you speak English. Problem is the Locale, because the default text has non-ascii characters.

(3)
Unresolved issues :

IT# 2259 : sam translate constraints in v7 take much longer time/more
memory than in v5 when we just need counts.

Wants stats (e.g. avg file size). New implementation to not send list of files if wants stats. Make python script calling SQL. Investigate why so much memory is used. Perhaps put a max size limit on what can be returned by the DB server.

IT# 2256 : J. Snow requested to add record "job type" and "jobfiles"
dataset info. to requestHandler.   Adam will followup.

IT# 2251 : do_fzu_prague2 has problem in station setup as follows.
Can an expert advise ?

SAMCorba::Resolve: Not Found Name
'/SAMStations/d0_fzu_prague2/Master:Station' (Naming Service:
$SAM_NAMING_SERVICE_IOR=IOR:000000000000002a49444c3a6f6f632e636f6d2f436f734e616d696e672f4f424e616
d69
6e67436f6e746578743a312e30000000000000000100000000000002c0010000000000001064306f7261322e666e616c2e6
76f
7600233200000000000c4e616d655365727669636500)   Has more problems, sent today.

IT# 2240 : "Certificate renewal problem" -> User got error message
below and wonder his "sam_cert_request" was executed successfully ?
"unable to load certificate
20721:error:0906D06C:PEM routines:PEM_read_bio:no start   ?????
line:pem_lib.c:669:Expecting: TRUSTED CERTIFICATE "

IT# 2208: "Can't restart samTV": SAM shifters (including myself)
still can't ssh to d0om.fnal.gov. Can Adam help or comment ? Adam follow up.

Adam Lyon wrote:

>We shall have SAM Operations Meeting tomorrow
>October 3rd at 9:00am, ESNET: 88SAMDH
>Please send shifter and other reports to sam-design mailing list
>BY 5pm MONDAY!!
>
>Here is the agenda:
>
>1) Project News, Priorities, Follow ups from the previous meetings, etc...
>2) Releases
>3) D0   report
>4) CDF   report
>5) MINOS report
>6) DB   report/News
>7) Enstore/dCache report/News
>
>Thank you,
>Adam (Krzysztof is away)
>
>
>

From: **Francesco Delli Paoli <francesco.dellipaoli@pd.infn.it>**
Subject: CDF shift report 9/26 – 10/2
To: *Adam Lyon* <**lyon@fnal.gov**>
Cc: **sam-design@fnal.gov**
Date: *Tue, 03 Oct 2006 11:54:00 +0200*

Here the report,
    During the week no big issue on web monitoring tool were founded
  9-26   1 mover in trouble. Solved

No problem during the week end.

Francesco
sam shifter

From: **Francesco Delli Paoli <francesco.dellipaoli@pd.infn.it>**
Subject: CDF shift report 9/26 – 10/2
To: *Adam Lyon* <**lyon@fnal.gov**>
Cc: **sam-design@fnal.gov**
Date: *Tue, 03 Oct 2006 11:54:00 +0200*

From: **Arthur Kreymer <kreymer@fnal.gov>**
Subject: Minos status 2006 Oct 03
To: **sam-design@fnal.gov**
Cc: **minos_sam_admin@fnal.gov**
Date: *Mon, 02 Oct 2006 17:01:20 -0500 (CDT)*

Minos   -

    File concatenation continues in parallel, keeping up, evaluating.

Enstore   -

    Removed all files flagged by developers as damaged or empty at
        http://www-stken.fnal.gov/enstore/dcache_monitor/

DCache   -

    12 TB DCache read pool deployment - disks getting ready for burn-in

SAM   -

    IT 1751: Need to select multiple parameters

        RESOLVED - Due to bad parameter table entries,   YAY!
                Corrected by herber manually in dev/int Thursday
                    and in production Monday 2 Oct

        Follow up IT 2257 - how did these bad entries get created ?

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

Oracle   -

    Nick West demonstrated Minos framwork job using new TSQL root interface
        Sergey Linev is lead developer of this in the Root team.
        replaces RDBC/ODBC/odbc++/unixODBC layers   TSQL is supported by root team.
        Tested with mysql, trying Oracle also   This replaces many unsupported
                                                    layers.

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 ?