

## *SAM (REX/Ops) Operations Meeting 2008.07.08*

Adam (typist), Eric, SteveW, Randolph, Rick St.D, SteveS, Art, Jerry, Parag, Anil, Robert, Angela (virtually)

Meeting time: 40

Posting these minutes closes DZSAM-139

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:**

 [sam\\_cpp\\_api\\_v8\\_4\\_2](#) ( 03/Jul/08 | [Release Notes](#) )

 [SAMDEV-15](#) **FIXED** [Improved method of obtaining user and unix group information in sam lib](#)

 [SAMDEV-4](#) **FIXED** [Incorrect user check in c++ client](#)

This release fixes the CNAF LDAP problem. This requires a new version of disk\_cache\_i.

### **DØ:**

-- July 1 (~9 am): d0ora2 is back up after OS patching.

-- July 2nd: Shifter "hohlfeld" reported that he had to restart :

SAMDbServer.grid1\_prd:SAMDbServer, SAMDbServer.grid2\_prd:SAMDbServer,  
SAMDbServer.grid3\_prd:SAMDbServer, SAMDbServer.grid4\_prd:SAMDbServer

These are v5 DB servers!

-- Switched to JIRA ~ July 3 from Plone (along with a tutorial)

### Unresolved issues:

Plone #3938: J. Snow complained about "samgrid monitoring wrong" (July 2). Any idea ?

Needs to be looked at

DZSAM-129 : "MC production jobs unable to get files on cab2" (July 3)

--- No comment yet ?

No obvious problem found, but works now.

New storage under SL5 - working!

Issues: **DZSAM resolved issues from past week** (Displaying 6 of 6)

|   |                           |  |   |
|---|---------------------------|--|---|
|  | <a href="#">DZSAM-130</a> | requires info. about sam-shift                           |  |
|  | <a href="#">DZSAM-126</a> | cannot modify request                                    |  |
|  | <a href="#">DZSAM-118</a> | cabsrv1 not delivering files                             |  |
|  | <a href="#">DZSAM-117</a> | Post minutes of 2008.07.01 meeting                       |  |
|  | <a href="#">DZSAM-116</a> | Jobs not starting, no deliveries from Enstore            |  |
|  | <a href="#">DZSAM-104</a> | OSG-OUHEP Context server big log and Corba comm failures |  |

Issues: **DZSAM new issues from past week** (Displaying 9 of 9)

|   |                           |  |   |
|---|---------------------------|--|---|
|    | <a href="#">DZSAM-137</a> | DZSAM-134<br>↳ Figure out what is involved for the vdt upgrade on d0rsam01 |    |
|    | <a href="#">DZSAM-136</a> | DZSAM-134<br>↳ Add command to crontab to run twice per day                 |    |
|  | <a href="#">DZSAM-135</a> | DZSAM-134<br>↳ Install latest sam_gsi_config on the queuing node           |  |
|  | <a href="#">DZSAM-134</a> | Generating gridmapfile for jim_broker_client from voms                     |  |
|  | <a href="#">DZSAM-130</a> | requires info. about sam-shift   |  |
|  | <a href="#">DZSAM-129</a> | MC production jobs unable to get files on cab2                             |  |
|  | <a href="#">DZSAM-126</a> | cannot modify request  |  |
|  | <a href="#">DZSAM-118</a> | cabsrv1 not delivering files   |  |
|  | <a href="#">DZSAM-117</a> | Post minutes of 2008.07.01 meeting   |  |

| Issues: <b>DZSAM unresolved problems</b> (Displaying 5 of 5)                      |                           |  |   |
|---|---------------------------|--|---|
|  | <a href="#">DZSAM-129</a> | MC production jobs unable to get files on cab2 |  |
|  | <a href="#">DZSAM-100</a> | MC Jobs overwhelming SBGRID                    |  |
|  | <a href="#">DZSAM-82</a>  | 40 MC jobs held over the weekend               |  |
|  | <a href="#">DZSAM-54</a>  | Jobs don't work on Lancaster Forwarding Node   |  |
|  | <a href="#">DZSAM-53</a>  | samgrid reporting incorrect status of jobs     |  |

## CDF:

o Failed uploads went away

o help desk ticket 118042:

fcdldata100 is back in service after power supply replacement.

o IAF406 fixed.

o User Report: AC++ gave error on SamGetNextFile, Thomas checked file but was ok; assume was part of the IAF406 NOACCESS problem.

Continuing problems:

o CDFDCACHE-5: fcdldata146 down. Timur requests system management help but seems to have restarted it. It came and went so this fcdldata147 were moved from the readonly pool to the test pool so that user jobs would not fail when they inevitably went away -- and indeed fcdldata146 did go away over the weekend only to reappear Sunday afternoon. Not clear if there was human intervention.

User sent problem to a non-JIRA mailing list. fcdldata146 and 147 and the cause is completely unknown. FEF group says that dCache software is using a large amount of memory. dCache group hasn't looked at it. Why are these two nodes different from other nodes - these nodes are affecting performance (see next comment below).

o Requests remain high and having two flakey nodes out does not help.

o fcdldata320 inactive and remains so (since at least October)

Needs software reinstalled. dCache developers have said they would install, but nothing has been done yet.

dCache now has their own JIRA project, but Timur says that dCache group has not agreed to JIRA and wants to go back to the mailing list. Should we be using the helpdesk instead? Stan says to always use the helpdesk (dCache developers have been using bugzilla internally, which probably explains their resistance to JIRA).

Angela will try to use the helpdesk for these issues.

o 9940B22 dead due to bad system disk (Angela says was like this 5 weeks now)

Will be added to helpdesk too.

Warning to next shifter:

Restarting the caf station has a problem that is detailed in JIRA on cfdh-128

Sets workgroup to CDF instead of TEST

Jira ticket explains how to fix that

Code is in integration

cfdh-128

This procedure should be followed until a new station version is migrated into production

CDF needs to deploy the latest DB servers. Need to do the testing in integration (SteveW can help).

| Issues: <b>CDFDH resolved issues from past week</b> (Displaying 10 of 10)           |   |   |
|---|---|---|
|  | <a href="#">CDFDH-161</a> Can not read sam                  |  |
|  | <a href="#">CDFDH-160</a> can not read sam data             |  |
|  | <a href="#">CDFDH-157</a> Re: IAF406                        |  |
|  | <a href="#">CDFDH-156</a> IAF406                            |  |
|  | <a href="#">CDFDH-155</a> Files on SAM taking too long      |  |
|  | <a href="#">CDFDH-152</a> upload of two dhgp6a files failed |  |
|  | <a href="#">CDFDH-151</a> fcdpdata100                       |  |
|  | <a href="#">CDFDH-146</a> Error Message                     |  |
|  | <a href="#">CDFDH-144</a> gjt1bj                            |  |
|  | <a href="#">CDFDH-143</a> encp errors                       |  |

| Issues: <b>CDF new issues from past week</b> (Displaying 7 of 7) |                           |   |   |
|--|---------------------------|---|---|
|  | <a href="#">CDFDH-165</a> | Problems with file transfers - please investigate         | ↓ |
|  | <a href="#">CDFDH-164</a> | /pnfs/cdfen mount on ILP                                  | ↓ |
|  | <a href="#">CDFDH-163</a> | Reminder: put fcdpdata146 and 147 back into ReadOnlyPools | ↓ |
|  | <a href="#">CDFDH-162</a> | DH performance ?  | ↓ |
|  | <a href="#">CDFDH-161</a> | Can not read sam  | ↓ |
|  | <a href="#">CDFDH-160</a> | can not read sam data                                     | ↓ |
|  | <a href="#">CDFDH-157</a> | Re: IAF406  | ↓ |

| Issues: <b>CDFDH unresolved problems</b> (Displaying 15 of 15) |                           |  |   |
|--|---------------------------|--|---|
|  | <a href="#">CDFDH-165</a> | Problems with file transfers - please investigate              | ↓ |
|  | <a href="#">CDFDH-164</a> | /pnfs/cdfen mount on ILP                                       | ↓ |
|  | <a href="#">CDFDH-162</a> | DH performance ?   | ↓ |
|  | <a href="#">CDFDH-150</a> | No authroization request                                       | ↓ |
|  | <a href="#">CDFDH-148</a> | Added disk inactive from long time                             | ↓ |
|  | <a href="#">CDFDH-147</a> | sam get dataset offsite  | ↓ |
|  | <a href="#">CDFDH-142</a> | dcache error for cajob 3531028?                                | ↓ |
|  | <a href="#">CDFDH-139</a> | Long running query from SAM on CDF Offline Production database | ↓ |
|  | <a href="#">CDFDH-138</a> | Problems with fcdpdata147                                      | ↓ |
|  | <a href="#">CDFDH-134</a> | sam dataset definition problem                                 | ↓ |
|  | <a href="#">CDFDH-128</a> | cdf-caf and cdf-fncdfsrv0 stations can get stuck if restarted  | ↑ |
|  | <a href="#">CDFDH-121</a> | Debugging SAM @ CNAF   | ↑ |
|  | <a href="#">CDFDH-112</a> | re : fcdpdata135 is offline                                    | ↓ |
|  | <a href="#">CDFDH-109</a> | SAM problems @ CNAF  | ↑ |
|  | <a href="#">CDFDH-96</a>  | cdf-japan station is down                                      | ↓ |

**MINOS:**

DCache -

Weak FTP access was not working.  
Developers found and corrected a bug introduced in the 1.8 upgrade.

Found several read and write pools missing since the Jun 24 upgrade.  
These were restored.

SAM -

SAM-IT/3582 - resolved, installed missing packages via  
upd install sam\_db\_srv\_pkg v8\_4\_5

Oracle -

## OPEN ISSUES

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

PLAN -

## DB:

D0 :

Alert(S):

- Information for: d0ofprd1

| Owner | Object | Type | Extents Used | Extents Allocated | Extents Left |
|-------|--------|------|--------------|-------------------|--------------|
|-------|--------|------|--------------|-------------------|--------------|

|        |               |       |      |      |   |
|--------|---------------|-------|------|------|---|
| SAMPRD | CONF_PF1_FK_I | INDEX | 9196 | 9200 | 4 |
|--------|---------------|-------|------|------|---|

Action: Increased the max extents to 15,000

Information for: d0ofprd1

| Owner | Object | Type | Extents Used | Extents Allocated | Extents Left |
|-------|--------|------|--------------|-------------------|--------------|
|-------|--------|------|--------------|-------------------|--------------|

|        |               |       |      |       |   |
|--------|---------------|-------|------|-------|---|
| SAMPRD | PROJECT_FILES | TABLE | 9996 | 10000 | 4 |
|--------|---------------|-------|------|-------|---|

Action: Increased the max extents to 20,000

CDF :

- ORA-00600: internal error code, arguments: [kgh\_heap\_sizes:ds" on cdfoint.

Query:

```
select file_type_desc, data_tier||decode(fid1,fid2,', '(metadata-only)'),
       "CreateDate", count(*), sum("GB") "GB", sum("mEvents")
from (
  select /* PARALLEL(data_files, 3); FACT(data_tiers, file_types);*/
        unique ft.file_type_desc, dt.data_tier, df.file_id fid1, dfl.file_id fid2,
        to_char(df.create_date, 'yyyy-mm') "CreateDate",
        df.file_size_in_bytes/1073741824 "GB",
        df.event_count/(1000*1000) "mEvents"
  from data_files df,
       file_types ft,
       data_tiers dt,
       data_file_locations dfl
  where df.create_date < '04-Jul-2008'
        and df.file_type_id = ft.file_type_id
        and df.data_tier_id = dt.data_tier_id(+)
        and df.file_id = dfl.file_id(+)
)
  group by file_type_desc, data_tier||decode(fid1,fid2,', '(metadata-only)'),
         "CreateDate"
```

Randolph believes this is a bug in Oracle. Not sure where this query is coming from (but it is from integration). Anil will find out the machine and user.

## Enstore/dCache

Stken downtime on 7/24 for all day (SDE upgrade). Includes pnfs (does not affect CDF or D0).

CDF is supposed to get 2 LTO3 drives from Stken (while Stken is not loaded), but person who was supposed to do this retired. No replacement yet.

No downtimes planned for CDF or DØ.

For the D0 9940B read OR write problem - Sasha made a patch before he left to resolve a queuing problem. Seems to have worked.

Use the helpdesk!