

CVMFS 2.1 - Additional Repos

Requesting that all ATLAS sites also mount:

- SFT repository
 - /cvmfs/sft.cern.ch
 - Maintained by Benedikt Hagner
 - On Stratum-1
- ATLAS Nightlies repository
 - /cvmfs/atlas-nightlies.cern.ch
 - Maintained by Alex Undrus
 - On Stratum-0 (no need yet for Stratum-1)



Motivation

- SFT: has all LCG externals
 - Users ask for standalone SW (eg numpy).
 - Avoid installing requests on cvmfs !
 - SIT use case: “...eventually we can start using the externals from there and reduce our kit distributions and installations.” (E. Obreshkov)
- Nightlies: some sites already have it.
 - Good to make this uniform across ATLAS.
 - Running on the grid for sometime now:
 - <https://twiki.cern.ch/twiki/bin/viewauth/Atlas/HammerCloudNightly>

CVMFS 2.1

- This new version of cvmfs means
 - Drain WNs & change configs for update.
 - Not necessarily a site disruption !
 - Shared local cache for repos.
 - Each additional repo (no large penalty):
 - ~ 1G/repo local cache
 - (we recommended 25-50G/WN cache).
 - ~ 20M/repo memory
 - NFS export of cvmfs available.

A good opportunity to ask sites to mount also sft and atlas-nightlies repos when they upgrade !



- ADC decision on the 2 repos is first step:
 - Clear instructions for ATLAS sites,
 - (Done) <https://twiki.cern.ch/twiki/bin/view/Atlas/Cvmfs21>
 - So that some sites can test 2.1 today,
 - In progress for sometime now (nfs sites, need more normal sites)
 - So that sites that **must have 2.1** can switch when it is available for production ...
 - eg. nfs mounted, large multi-core sites, etc.
 - before the April 30 deadline (all ATLAS sites on cvmfs 2.0.* or 2.1.*)

Proposal: Allow for sft and atlas-nightlies to be mounted when upgrading to cvmfs 2.1.



Backup Slides

March 19, 2013

A. De Silva, TRIUMF

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CVMFS 2.1 Timeline

“for the NFS mode, I think cvmfs 2.1 can be considered as non-testing but stable. For the non-NFS mode, we have had a bit of a lack of testing and hence several bugs where only found after declaring it "stable".

I would estimate that it takes a few weeks to move cvmfs out of the testing repo. To my knowledge, there is one remaining severe problem at the moment:

<https://savannah.cern.ch/bugs/?100538>

I hope to have it sorted out this week, so I can give nightlies to the affected sites for testing.

Of course, this estimate is provided that no new severe problems appear. To this end it would help to have as many sites as possible trying out the 2.1 branch...”

Jakob Blomer, 12 Mar 2013.

SIT repo

```
desilva — ssh — 95x40
[lxplus436] /cvmfs/sft.cern.ch/lcg/external > ls
4suite          HepMC          pyanalysis
AIDA            HepPDT        pydot
app            hippodraw     pygraphics
bjam           igprof       pygsi
blas           ipython      pyparsing
Boost          Java          pyqt
bz2lib         JDK           pyqt_compat
castor         ktjet        Python
cernlib        lapack       pytools
cernvm-copilot LCGCMT       pyxml
cgal           lcov         QMtest
clhep          LFC          qt
cloog-ppl     libelf       qwt
CMake         libtool      RELAX
CMT           libunwind    roofit
coin3d        mathlib      ROOT
COOL          MGenerators  rx
CORAL         MGenerators_hepmc2.03.11 scons
CppUnit       MGenerators_hepmc20603 sip
cx_Oracle     MGenerators_hepmc2.06.05 siscone
dcache_client MGenerators_lcgcm64 slc4_compat
dm-util       mcviz        soqt
doxygen       minuit       sqlite
DPM           mpc          subversion
edg-rls-client mpfr         swig
expat         mysql        tbb
experimental  mysql++      tcmalloc
fastjet       mysql_python tcsh
fftw3         neurobayes  uuid
frontier_client neurobayes_expert valgrind
gcc           OpenScientist vdt
gccxml        oracle       XercesC
geant4        pcre        xqilla
gmp           PoD         xrootd
graphviz      POOL        zlib
Grid          ppl
GSL           processing
```

