



Status of AFS Phase out

M. Clemencic, J.Closier, B.Couturier,
for the Core Soft Team

CERN

May 12, 2017

Not a new topic...

- Already discussed at last year's workshops
- We have prepared out use cases:
<https://gitlab.cern.ch/lhcb-core/LHCbAFSUseCases>
- We have started migrating our services relying on AFS

Progress reported at IT User Meetings

- c.f. <https://twiki.cern.ch/twiki/bin/viewauth/IT/AfsPhaseout>

CERN IT striving to find replacement strategies for the services:

- e.g. AFS Web becomes EOS Web
- software deployment in CVMFS (e.g. [/cvmfs/lhcbdev.cern.ch](https://cvmfs.lhcbdev.cern.ch))

Hardest task: replacement for home directories

- EOS is identified, after a rewrite of the fuse module
c.f. <https://indico.cern.ch/e/ITUM-20>
and **this presentation**

trying-out cernbox and associated EOS access is encouraged to get feedback

Can now be moved to EOS:

- "EOS folder" site type in `https://webservices.web.cern.ch/webservices/Services/CreateNewSite/Default.aspx`
- Deleted files kept in the trash bin (not sure for how long)

Some services already moved:

- Marco working on migrating the doxygen doc and the project pages (c.f. dedicated presentation)
- We are moving the tar/rpm repositories to eosweb

Some sites still need doing:

- all websites under lhcbproject (including LHCbDirac files)
- Nightly builds artifacts
- radiation maps web
- LHCb Question and Answers
- and many others...

We are removing the dependency on AFS in the build phase:

- Tools update to produce RPM, installed on both AFS and CVMFS
- Still need AFS for the doxygen deployment

CVMFS is now the default installation area!

Please report nodes where CVMFS is missing

Nightly builds and development versions deployed to a specific CVMFS volume:

- /cvmfs/lhcbdev.cern.ch/
- Deployment to CVMFS is not as easy as copying to AFS (c.f. Stefan's talk)
- There are delays in the procedure (publication takes a rather long time as well as the usual CVMFS propagation time)

- Some cases (web services...) are under control
- Waiting to see the performance of the new FUSE module for home directories
- Removing AFS dependencies is a time consuming operation
- But it can be worth it as we cleanup along the way...

Sizeable amount of work left