EIC & OSG CernVM-FS Policy [Draft]

Scope

This policy covers the management and organizational structure of the EIC and OSG root on the CernVM-FS filesystem, at `/cvmfs/eic.opensciencegrid.org/`. It covers governance, rights and responsibilities, access permissions, directory structure, and retention timelines. Chris: why do we want to bring the OSG in here?

Core Principles

- Shared governance by EIC UG SWG and OSG (again why governance of the OSG???? Cvmfs is a world readable filesystem)
- Clarity and discoverability by users (please describe the purpose of this - is the LINUX kernel discoverable?)
- Retention that supports data and software archival (what does this mean - retention? Our software is in github - do you propose an orthogonal software archive?)

Challenges

- Promulgation of minor version updates
- Promulgation of operating system ABIs
  This should be dealt with on an installation by installation basis. Fun4All and escalate work very differently, a single policy which does not recognize this will not work. On the Fun4All side the promulgation of OS ABI's has been dealt with.

Current Structure

/cvmfs/eic.opensciencegrid.org/
- gcc-8.3
  - opt
  - release
- singularity
- x8664_sl7
  - MCEG
    - releases
      - env
        - dev
        - new

- ○ old
- ○ pro
- ○ EIC2020a
- ● etc
- ○ opt
  - ■ fun4all
    - ● core
    - ● utils
- ○ patches
- ○ release
  - ■ ana.*
  - ■ new.*
  - ■ play.*
  - ■ test.*
  - ■ release_ana
  - ■ releas_new
  - ■ release_play
  - ■ release_test

Desired Structure

/cvmfs/eic.opensciencegrid.org/
- ● singularity/
- ●

Markus This might be one of the points where we cannot reach a consensus and could think about structures based on the frameworks, e.g.,

/cvmfs/eic.opensciencegrid.org/eicroot/ with EicRoot-specific structure
/cvmfs/eic.opensciencegrid.org/escalate with ESCalate-specific structure
/cvmfs/eic.opensciencegrid.org/fun4all with Fun4all-specific structure

Chris: the structure
/cvmfs/eic.opensciencegrid.org/x8664_sl7
For our SL7 based installation and
/cvmfs/eic.opensciencegrid.org/gcc-8.3
For our gcc 8.3 based installation will not be changed.
If we start to support other compilers, there will be top directories for them (e.g. gcc-10.1)
/cvmfs/eic.opensciencegrid.org/patches contains a patch you will need to run clang on certain systems which have a bug in the gcc stock compiler.

Kolja: From my perspective, placing our main installation in x8664_sl7 makes sense since it reflects the entire ecosystem it lives in. The gcc-8.3 directory (for me at least) is just for complementary tools that are sometimes needed.

That said, the non-EicRoot, non-fun4all collection is still relatively small and can easily fit into any agreed-upon structure. It's more important to reach a consensus quickly so that we can grow in a natural place that's not subject to much further reshuffling.