Minutes for 2021-04-14 T2.2 meeting

The previous meeting minutes.

Present

Alba Vendrell
Berkay Turk
Marcelo Soares
Marek Szuba
Martin Barisits
Paul-Niklas Kramp
Paul Millar
Rohini Joshi

Apologies

Nadine Neyroud

Agenda

- QoS Rucio stats dashboard
- DAC21 -- starting the ball rolling
- Caching: what's the plan?

News

Plan for internal SKA use case discussion planned for the first half of next week, which will happen after the ESAP situation is clarified. Plan a meeting after this. ESAP interest is in IVOA and how to integrate with JupyterHub.

FAIR -- end of April -- people from CBM and PANDA. Organise something by the end of the month. Paul Kramp (GSI IT) and Eoin Clarke (GSI CBM) making progress in integrating CBM work-flows. Killian is manager on this (GSI) + one person from CBM and PANDA.

Frederic is needed for LSST discussion -- we'll do this offline.

The not-concrete SKA plans. One test we scaled back was the data injection (or injection-like). Hoping to do more of this in DAC21 and better understand how to register data that has been uploaded.

Would need access at a lower level at a non-deterministic RSE in order to either generate test data at source or move data with something like gfal-copy. Trying this first on the SKA Rucio instance, to gain experience.

Plan to largely use the ESCAPE Rucio instance for the DAC21.
In about two weeks time, plan to investigate policy packages (policies and permissions). If this isn't available on ESCAPE rucio instance then it could be tested/demo-ed on the SKA instance.

SKA Rucio instance currently does not support OIDC.

For FAIR, we hope to have more realistic analysis code for DAC21.

Monitoring:

Caching:

FAIR
Work done primarily by Paul Kramp.
Running on xrootd, have considered two technologies: "plain" xcache and disk-cache-on-the-fly*. Also local redirect plugins for xrootd to optimise bandwidth usage.
Overall, planning a slightly different approach to the data lake for FAIR - WebDAV access with site federation and consistent hashing. Xrootd caching solutions might also end up being used for federation - Dynafed-based for now but there have been problems (lack of support for token authentication, communication with upstream, turns out it might be deprecated relatively soon).
*Disk-cache-on-the-fly (DCoF) is a setup to use xcache in combination with direct access to the local filesystem. Now being tested with the direct cache directive (DCA), in which the xcache can redirect the client to the direct file-system; if xcache+DCA works fine DCoF will become more-or-less redundant.

SKA
The caching concept for SKA (within ESCAPE) would naturally become clearer.

Round table

Streams info can be found at:
https://indico.in2p3.fr/event/19937/contributions/75972/attachments/56927/75787/ESCAPE-T2.2-update.pdf

Stream A: prototyping and demonstration

Stream B: engagement with experiments

Stream C: software developments

AOB

The next meeting will be on 2021-04-28