

Rolling minutes LAPP&ESCAPE4OSCARS meeting

Thursday 10am 10/10/24

Indico event: <https://indico.cern.ch/event/1466414/>

Attendees:

- Frederic Gillardo
- Leo C
- Marion P
- Mathieu GL
- Hugo G
- Giovanni G
- Enrique G

Minutes

Roundtable (with discussions in between)

ET Rucio workshop presentation:

https://indico.cern.ch/event/1343110/contributions/6130830/attachments/2940080/5165513/avezzi_Rucio_Workshop.pdf

- Frederic is involved in both WP1 and CTA
 - Use case with complex metadata within CTA: with OSCARS they want to benchmark Rucio and see if it meets the requirements or if it needs to be improved.
 - Having a pilot that showcases the functionalities of the service would be a nice demonstrator.
- Mathieu is working on the Tier 2 (operations, batch, dcache...)
 - Will not directly work for OSCARS, but will follow the work of Léo
 - Local replication vs job assignment to the grid sites? See below.
- Leo is working 50% on a VRE (OSCARS) and 50% on a JupyterHub (Ixplus like) pilot in LAPP.
- Marion is involved in Rucio metadata as well as OSCARS

Mathieu mentioned the implementation of Dirac in the VRE for jobs management.

Giovanni remarked that there are two ways (in ATLAS) of processing data, at least in CERN experiments: grid processing ("derivation") vs VRE ("physics analysis/fit").

It is important to have a picture of where a VRE can be useful.

Derivation (i.e. processing of raw data to the point to which it can be analyzed by researchers) is typically performed on the grid, without the need of a VRE. A VRE is useful afterwards, for last stage analyses or fits, or plots production.

Hugo added that within CMS users choose which artifacts to mount in VREs after derivation; this approach differs wrt ATLAS, and it's closer to the CTA use case (probably).

Giovanni mentioned the Analysis Facility Whitepaper: <https://arxiv.org/abs/2404.02100> to have a common definition of an analysis facility (or VRE).

ESCAPE AAI: ESCAPE INDIGO IAM → <https://iam-escape.cloud.cnaf.infn.it/login>

- Anybody can register

CERN VRE Platform → <https://jhub-vre.cern.ch/>

Mathieu asked whether the token coming from IAM is propagated to the image spawned and re-used, e.g. for Rucio.

Enrique confirmed, but a few additional passages are required in order to properly pass the token to Rucio

Mathieu mentioned a Rucio plugin within VSCode.
Cloud development platform at CERN?

ACTIONS

OSCARS related

- LAPP team contact Maud/Giovanni to get a list of projects that got granted with a cascading grant and that are connected with ESCAPE (around 100 projects)
- Agree with which demo we want to use/show to OSCARS (CERN VRE ?)

VRE related

- LAPP team will create a CTA image and add it to the CERN VRE
- LAPP team would like to make some benchmark/metadata tests ("Data Challenge metadata") trying the different metadata plugins