

DAC21 DEBRIEFING – USE CASE KM3NET001

- Nightly ingestion of the raw data from the shore station into the datalake
 - Only a few GB
- Worked fine in the end
 - After issues with RSE, proxy, upload and deletion of files
 - We especially like the easy replication to other RSEs

DAC21 DEBRIEFING – USE CASE KM3NET001

- **RSE**
 - Issue with LAPP-WEBDAV, replication got stuck
 - Switched to QOS=OPPORTUNISTIC
- **X509 proxy**
 - Exercise requires daily renewal of the proxy
 - Suggestion to use “Long living proxies with passwordless auto-renewal”
 - Tried passwordless auto-renewal solution provided by MAGIC
 - Not appreciated by institute Grid group

DAC21 DEBRIEFING – USE CASE KM3NET001

- Files weren't always ingested
 - Logs weren't very clear
 - Maybe due to re-use of filenames (filenames that no longer showed up with rucio list-dids)?
 - Reusing filenames is not a realistic scenario
 - Need to reproduce
- Deletion of files (prior to the exercise)
 - Files for which no lifetime was set initially, but was set afterwards, weren't always deleted
 - Files with a very short lifetime weren't always deleted (because of replication operation?)
 - Erase command doesn't always delete files

DAC21 DEBRIEFING – USE CASE KM3NET002

- Daily download of the raw data from the datalake, data processing, and ingestion of the processed data
 - Only a few GB
- Went fine
 - We especially like the concept of namespace and the organization in containers and datasets

DAC21 DEBRIEFING – USE CASE KM3NET003

- Usage of DLaaS to download data, perform a data conversion, and upload the result
 - Done only once during DAC21
- Went fine
 - DLaaS easy to use
- However
 - Never succeeded in using username/password authentication, used the x509 proxy
 - Possibility to query meta data

FOLLOW-UP ACTIVITIES KM3NET

- Investigate the problems encountered during DAC21
 - Especially the ones related to Use Case KM3NET001
- Usage of Rucio seriously considered
 - Rucio instance
 - Different storage elements available at the different KM3NeT group institutes
 - Integration with iRODS