

ESCAPE WP2







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 Centro de Investigaciones
Energéticas, Medicambientales y Tecnológicas



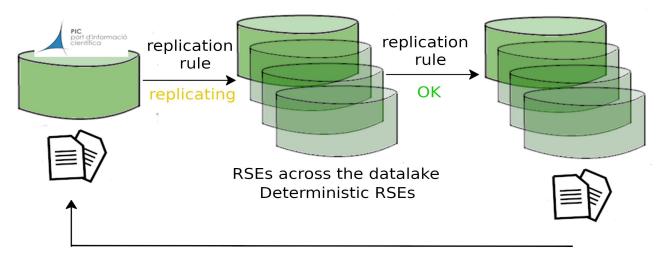


Automatic managing scientific data with Rucio



1) INTRODUCTION:

- a) Develop an automatic workflow that handle the large data sets produced by scientic sites.
- b) Files streamed from the telescope to the Data Lake for permanent storage and access.



Purge Replicas at the source RSE PIC-Inject









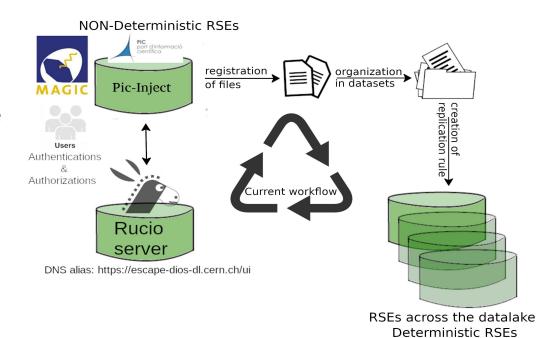








- 1. Mimicking data:
- 2. Two RSE:
 - a) NON-Deterministic RSE: Data is injected from the storage system located at the source (ORM La Palma in the future):
 - 1. Allows to register files with their original path in the detector.
 - 1. Mimicking the future config of an RSE at ORM.
 - a) Deterministic RSE: Destination of the data replicated:
 - a) Allows to permanent sotrage acces data.











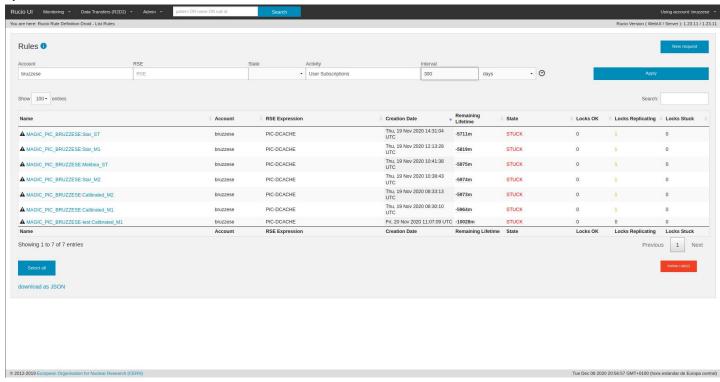








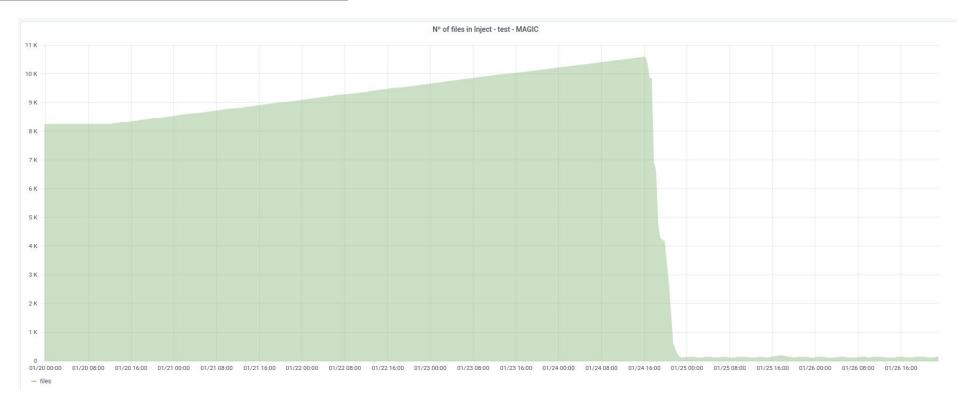
- 1. Issues encountered:
 - 1. Negative lifetimes when deleting Rules
 - 2. Daemons reaper didn't delete files







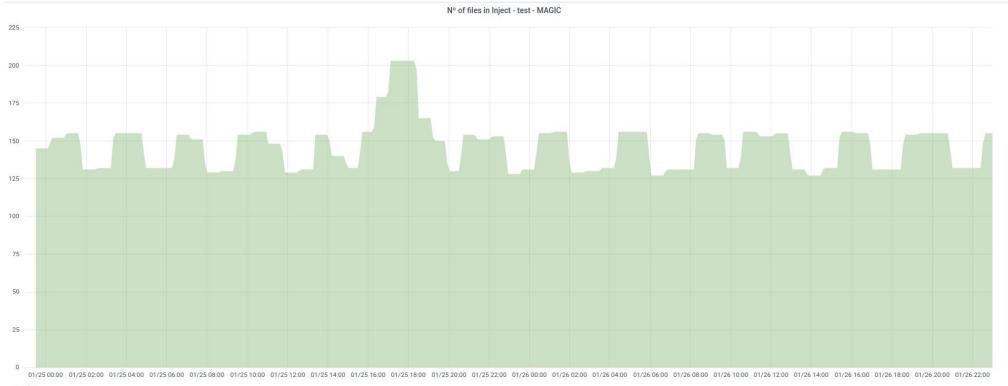
- 1. Issues encountered:
 - a) Negative lifetimes when deleting Rules
 - b) <u>Daemons was not able didn't delete files</u>







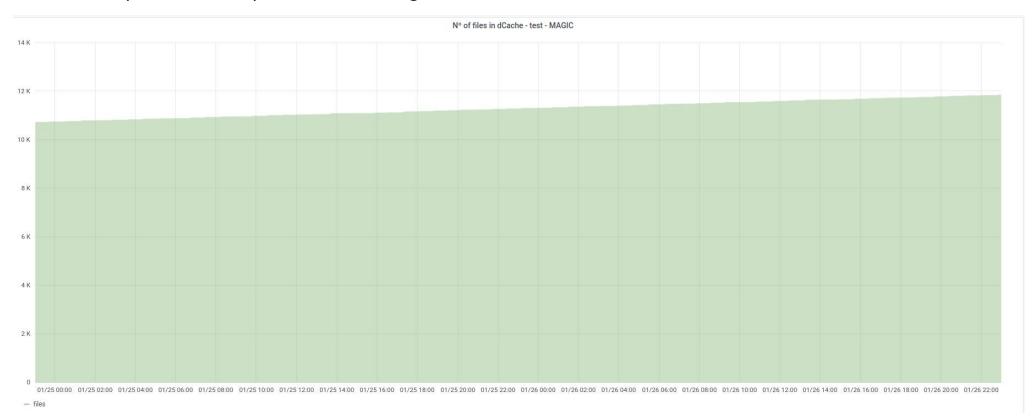
- 1. Operative workflow:
 - 1. Registration and deletion of files at source RSE







- 1. Operative workflow:
 - 2. Succes replication and permanent storage at destination RSE



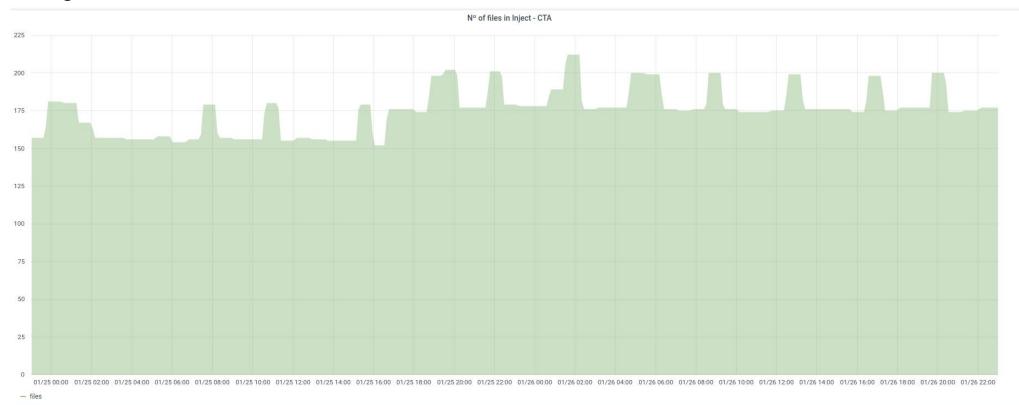


3) Immediate future



CTA-LST data injector:

- 1. Operative workflow:
 - 1. Registration and deletion of files at source RSE



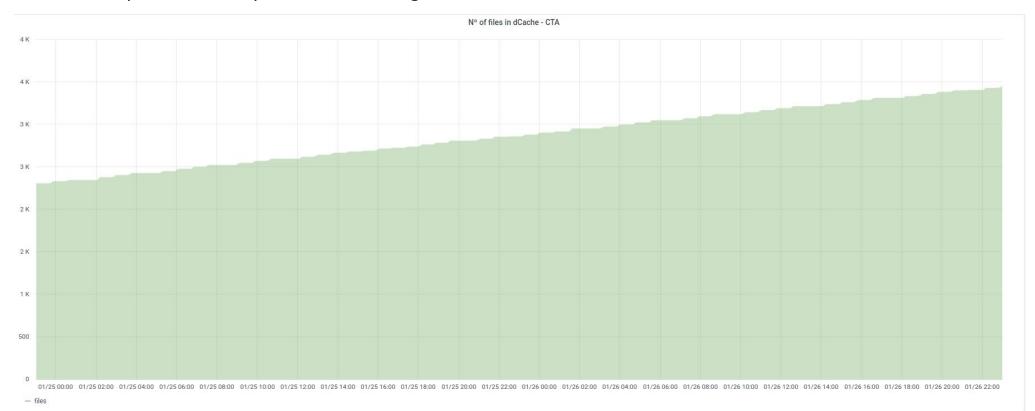


3) Immediate future



CTA-LST data injector:

- 1. Operative workflow:
 - 2. Succes replication and permanent storage at destination RSE

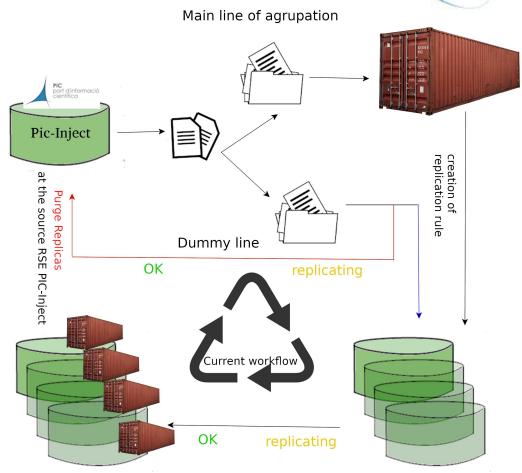




4) FUTURE PLANS



- Develop an automatic workflow for the distribution of scientific data through the use of RUCIO
 - a) MAGIC experiment
 - b) LST-CTA
- 2. Next Steps:
- 1. Setup a RSE in La Palma for the ingest operation
- In addition, we would like to start distributing real data from the LST experiments













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Thanks for listening



Questions?

Thank you all for your tremendous support.







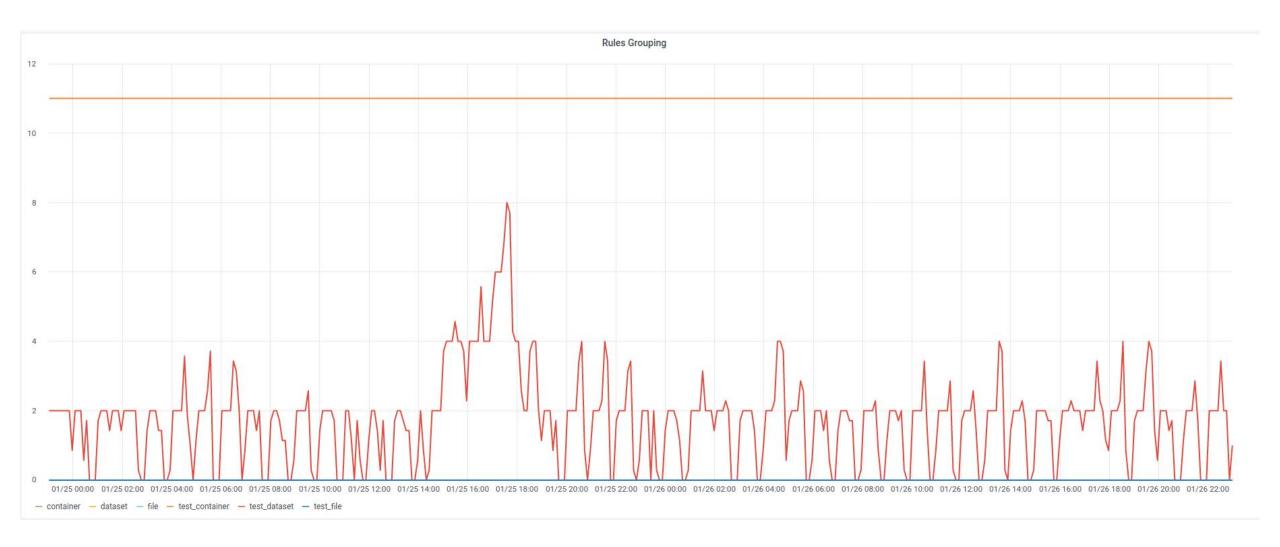








SI Figures



SI Figures

