ECDF updates

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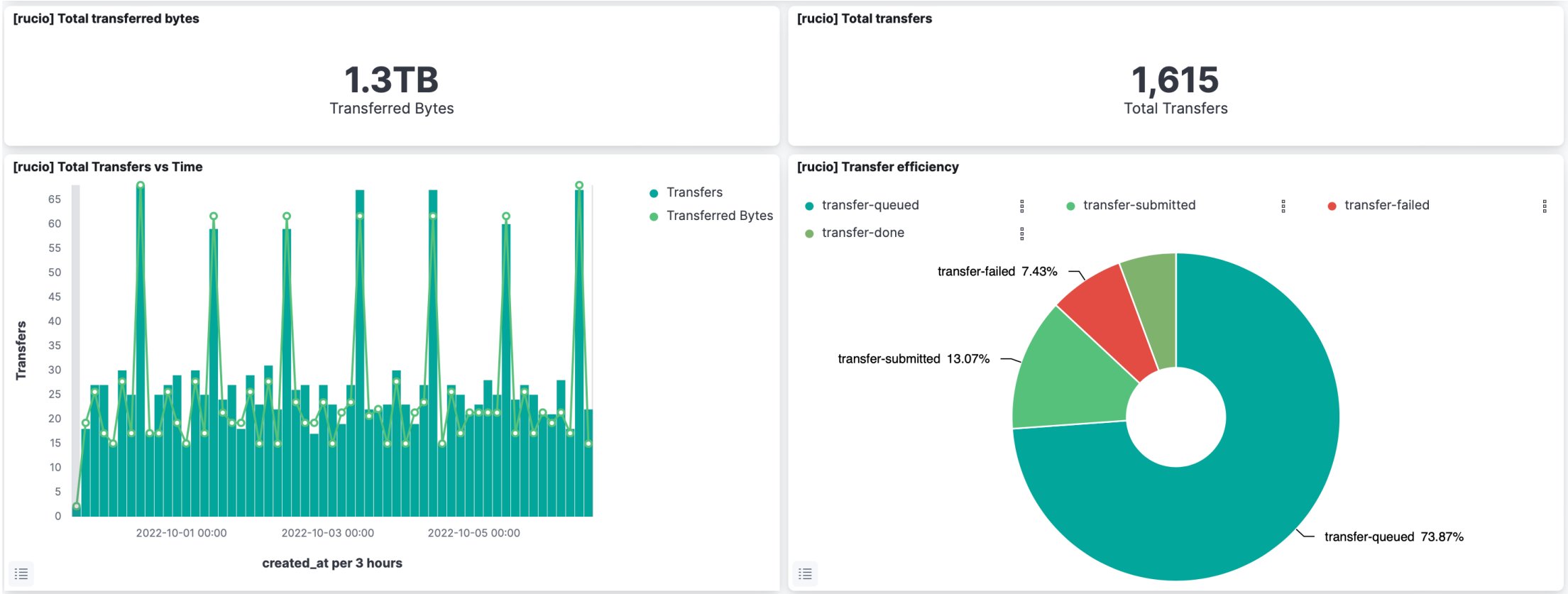
Rucio development work (JamesP, Edinburgh)

- Improvements to DUNE policy package:
  - Updating to work with newer Rucio versions
  - Using MetaCat Python API instead of direct REST calls (with help from Igor Mandrichenko)
  - New SURL algorithm that queries MetaCat, for use with tape storage sites
- Core Rucio work:
  - Removing deprecated storage code (S3 related) to cut down dependencies
  - Enforcing version check on policy packages to prevent breakages when Rucio API changes

Rucio Monitoring – transfers/deletions



https://dune.monitoring.edi.scotgrid.ac.uk/app/dashboards#/view/eb707c00-9c13-11e9-9ef1-ab86ce457da9

Rucio Monitoring – RSE usage

[rucio] total replicas - UK

1,302,549
Total replicas

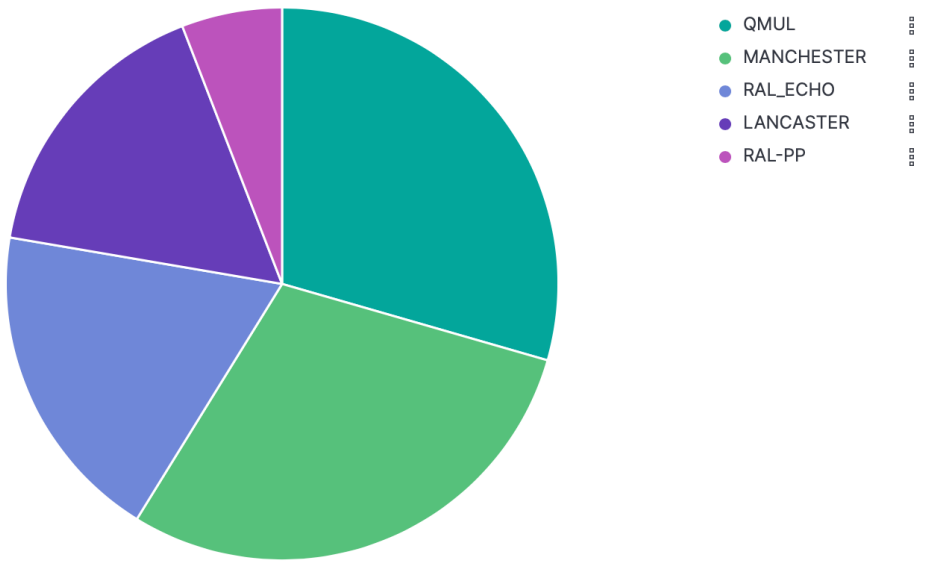
3.2PB
Total bytes

[rucio] RSE allocation and usage - UK

Export

RSE	RSE Quota	IRIS Allocat...	Used	Free	Free(%)
RAL_ECHO	1.0PB	1PB	837.5TB	147.8TB	16.246%
RAL-PP	99.58TB	(0.5PB)	99.6TB	976.6MB	0.001%
QMUL	1.1PB	1PB	679.9TB	382TB	38.187%
MANCHESTER	1.08PB	1PB	1PB	46.3TB	4.727%
LANCASTER	549.76TB	0.5PB	501.1TB	44.2TB	8.841%

[rucio] Replicas pie - UK



https://dune.monitoring.edi.scotgrid.ac.uk/app/dashboards#/view/318dbad0-727a-11ea-9164-a38a629544b4