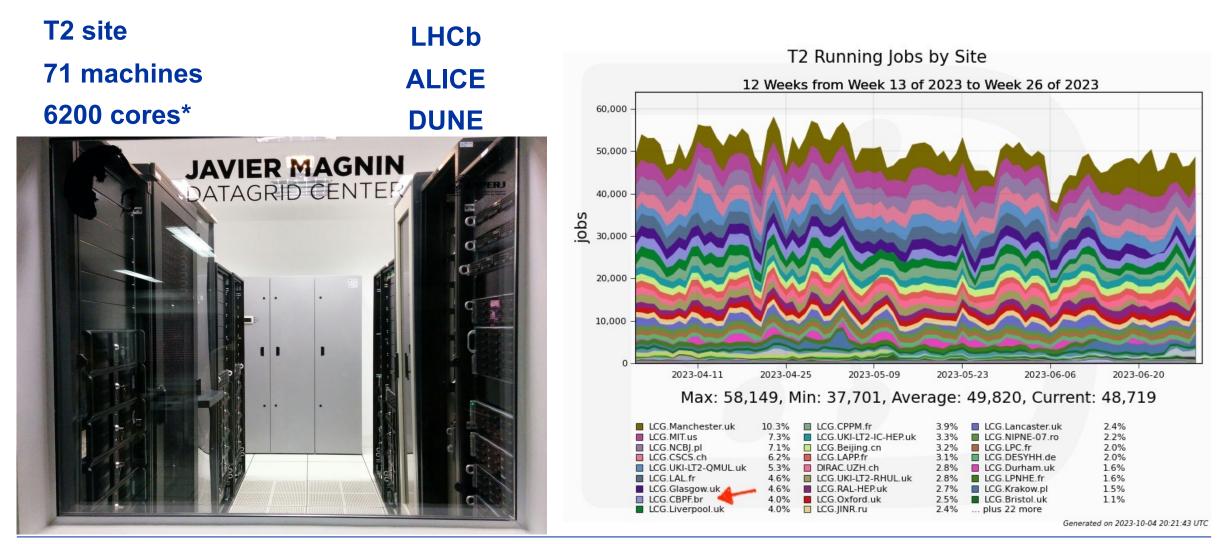
ERALDO SILVA JUNIOR

The Brazilian Center for Research in Physics(CBPF) Rio de Janeiro - Brazil



DIRAC & Rucio Workshop 2023

CBPF - GRID





CBPF



CBPF location



DIRAC & Rucio Workshop 2023

National Institute of Science and Technology CERN-Brazil (INCT)

Instituto Nacional de Ciência e Tecnologia de Física de Altas Energias CERN-Brasil

GT – 05 Infraestrutura Computacional

Jaime Fernandes Coordenação - CBPF Equipe: Ailton Silva, Orlanna Lopes, Vânia Martins;

Rogério lope Coordenação – UNESP Equipe: Jadir Marra, Márcio Antônio.

- Computação em nuvem.
- Interligação com a nuvem do EGI.

The In addition to supporting fundamental research in Physics, valuing its researchers on the international stage and scientific dissemination.





Brazil to become an Associate Member State of CERN

Brazil to become an Associate Member State of CERN

On 3 March 2022, CERN Director-General Fabiola Gianotti and Brazilian Minister for Science, Technology and Innovation Marcos Pontes signed an agreement admitting Brazil as an Associate Member State of CERN

12 APRIL, 2022



CERN Director-General Fabiola Gianotti and Brazilian Minister for Science, Technology and Innovation Marcos Pontes (Image: CERN)

Link here



We rely on the monitoring every single day to answer two very distinct questions:





Is everything working well?



Credits: @OpenAl DALL·E



What is this thing that is failing?



Credits: @OpenAl DALL·E





Our internal monitoring provides information on Rucio itself (i.e. internal).

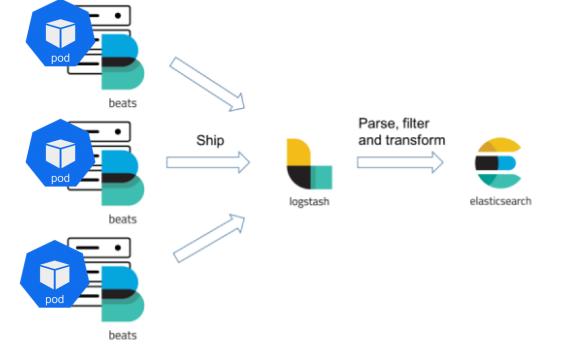
The DDM transfers monitoring provides information for our RSEs (i.e. external).

Stuff breaks all the time; both monitoring sources help us identify issues and potentially take an action.



Logs:

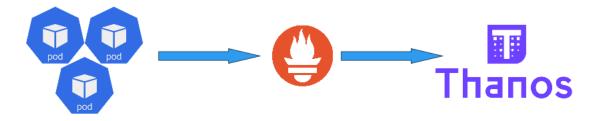
They are collected by beats, which ships the logs to logstash which parse, filter and transform.





Kubernetes:

Prometheus get metrics from each pod and push to Thanos for cross cluster monitoring.





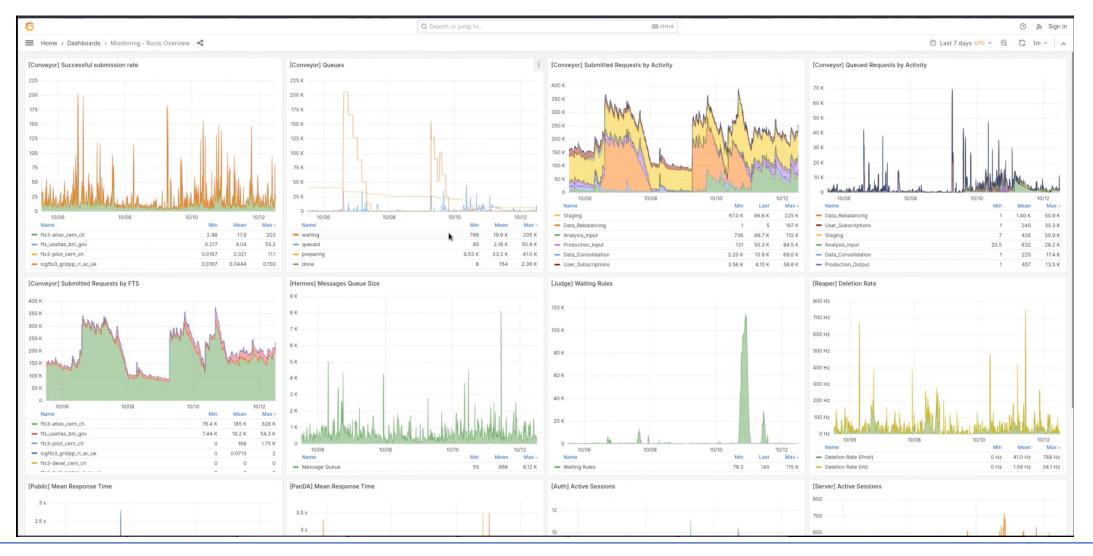
Rucio Internal monitoring Dashboards

General	
Monitoring - ADC Live Rucio	Rucio AD
Monitoring - Automatix	Rucio Automati
Monitoring - Conveyor	Rucio Conveyor preparer throttler submitter stager receiver poller finisher
Monitoring - Judge	Rucio Judge replication rule
Monitoring - Kronos	Rucio tracer time replic
Monitoring - Necromancer	Rucio Necromancer Bad replica
Monitoring - Requests	Rucio Requests Activity Stat
Monitoring - Rucio Overview	Rucio overviev
Monitoring - Transmogrifier	Rucio replication rule
Monitoring - Undertaker	Rucio Undertaker expired DID



- Thanos DS

Rucio Internal monitoring Dashboard



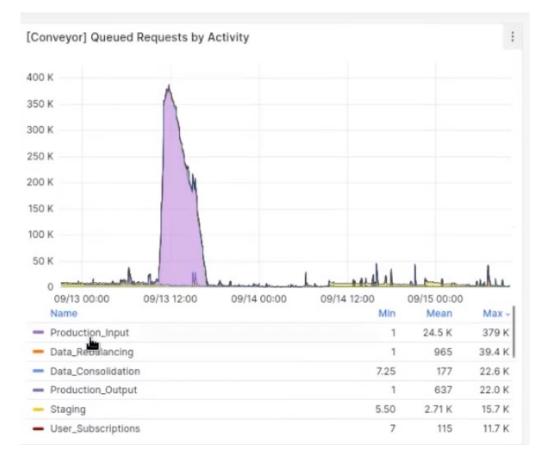




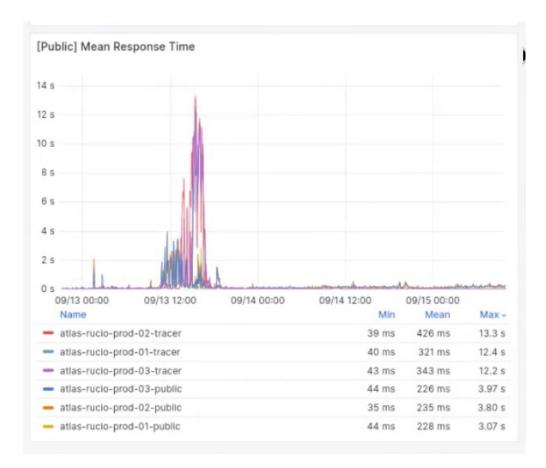
- Data rebalance procedure

Submitted transfer requests below 200K, the others are kept waiting by the Conveyor Throttler

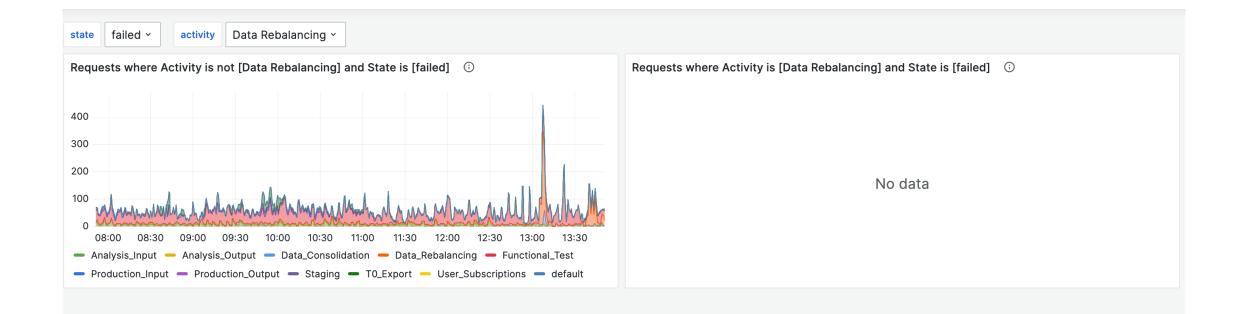




Health Check







Requests by Activity filters



DDM storage monitoring

Dashboard BigPanda

- ADC live page

Used	l by the	shif	ter
To h	ave a g	land	e of
the	state	of	the
stora	age occi	upar	ıcy

ALL TAPE										
2					28					
NUCLEUS DATA	26			N	UCLEUS SC	RATCH	33			
TIER-0 DATA	20			т	ER-0 SCRA ⁻	гсн	22			
	1				EIV O DEIVV		1			
TIER-1 DATA	40			TI	ER-1 SCRA	ГСН				
TIER-2 DATA	10			т	ER-2 SCRA	гсн	11			
6 1	42				LN-2 JCNA	ich	4	3		
TIER: ALL NUCLEUS TO) T1 ⁻	Г2 Т3	ENDPOI	NT:						
ALL TAPE DATA SC	RATCH	SPECIAL	GROUP	LOC	ALGROUP					æ
							Searc	n:		
	Disk			Site [‡]	Total (TB)	Sec (TB)	Free _ (TB)	Limit (TB)	Diff (TB)	Del (%)
SARA-MATRIX_DATADISK		SARA-I	MATRIX	N	5171	0	129.5	300.00	-170.52	100.0
DESY-ZN_DATADISK		DESY-2	ZN	N	2750	0	120.7	275.00	-154.32	100.0
UNI-FREIBURG_DATADISK		UNI-FF	REIBURG	N	2900	0	165.4	290.00	-124.58	100.0
INFN-ROMA1_DATADISK		INFN-F	ROMA1	N	1594	0	77.9	159.43	-81.55	99.9
DESY-HH_DATADISK		DESY-I	н	N	2832	0	228.6	283.24	-54.63	100.0
LRZ-LMU_DATADISK		LRZ-LN	ΛU	N	2701	0	253.6	270.08	-16.50	100.0
UAM-LCG2_DATADISK		UAM-L	.CG2	N	1144	0	101.1	114.42	-13.28	100.0

Satellites Services

Front



Rucio

HC

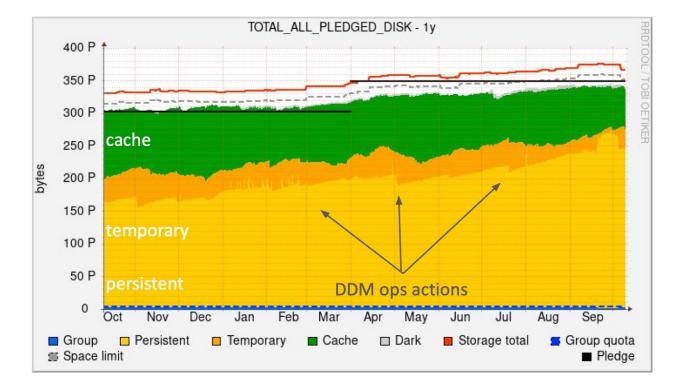
Storage

Pilots

CERN

Transfers

DDM storage monitoring



DDM operation campagne



E C rucio / probes	Q Type [] to search > +
<> Code ⊙ Issues 3 th Pull requests 13 ⊙ Actions	① Security 🗠 Insights
• Files	probes / common / check_deletable_replicas
₽° master - + Q	bari12 Adapt check_deletable_replicas 🚥 490
Q Go to file	
> 🖿 .github	Code Blame ① Executable File · 81 lines (73 loc) · 3.07 KB
> 🖿 atlas	1 #!/usr/bin/env python
> 🖿 attic	2 # Copyright European Organization for Nuclear Research (CERN) 2013 3 #
	4 # Licensed under the Apache License, Version 2.0 (the "License");
> 🖿 cms	5 # You may not use this file except in compliance with the License.
Common	6 # You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 7 #
> 🖿 utils	7 # 8 # Authors:
Check_deletable_replicas	9 # — Mario Lassnig, <mario.lassnig@cern.ch>, 2013—2014</mario.lassnig@cern.ch>
	10 # - Cedric Serfon, <cedric.serfon@cern.ch>, 2018</cedric.serfon@cern.ch>
Check_expired_dids	
Check_expired_locked_rules	13 Probe to check the queues of messages to submit by Hermes to the broker
Check_expired_rules	14 '''
check_free_space	15 16 fromfuture import print_function
	17 import sys
Check_fts_backlog	18
Check_messages_to_submit	19 from rucio.db.sqla.session import get_session
C check_new_dids	20 21 # Exit statuses
check_obsolete_replicas	22 OK, WARNING, CRITICAL, UNKNOWN = 0, 1, 2, 3
	23
Check_oracle	
Check_requests_to_rses	25
Check_stuck_rules	27 SESSION = get_session()





Common Nagios probes to monitor Rucio



https://github.com/rucio/probes

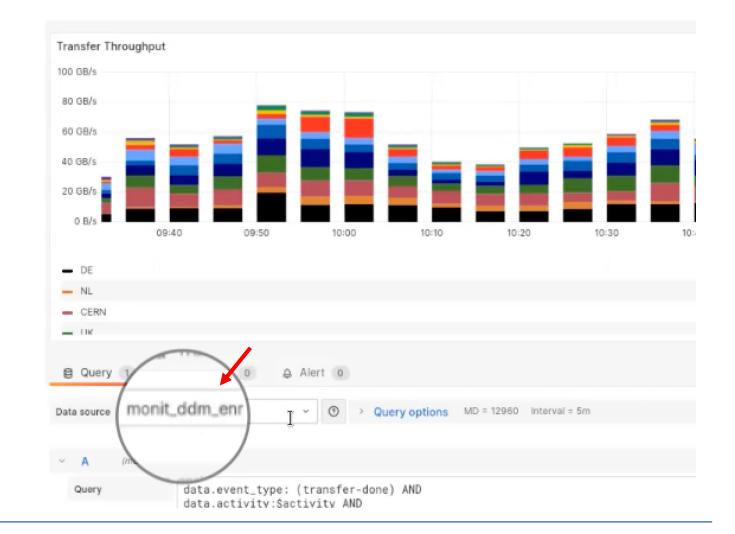
Rucio Data Source monit_ddm_enrich

MONIT

©FTS **RUCIO**

WLCG CRIC

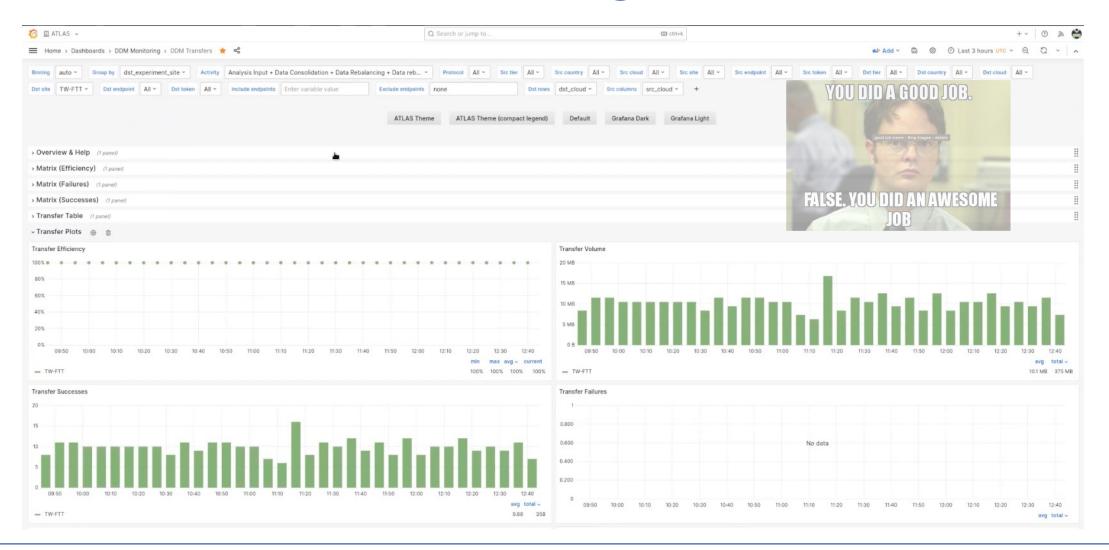
Computing Resource Information Catalog





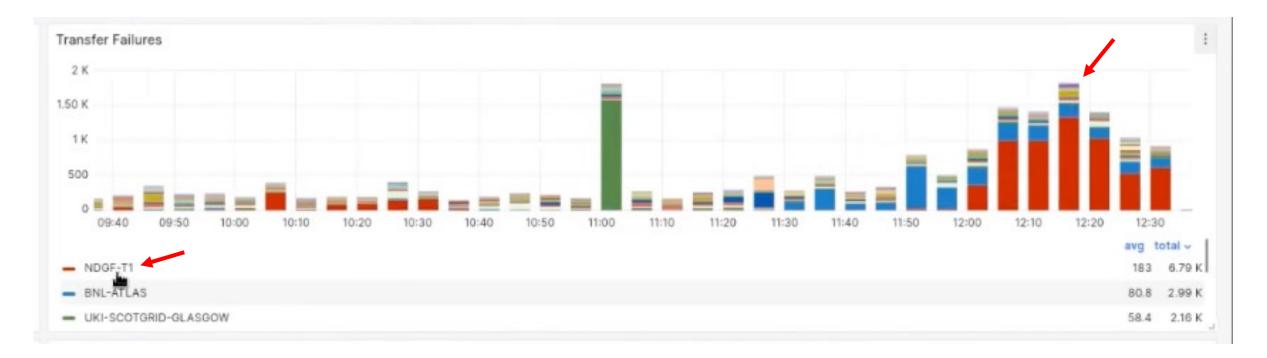
🗏 Home > Dashboards > DDM Monitoring > DDM Transfers <table-cell> 📌 📽</table-cell>		
Sinning auto ~ Group by activity ~ Activity Analysis Input + Data Consolidation + Da	palancing + Data reb Protocol All - Src tier All - Src country All - Src cloud All - Src site Enter variable value Src endpol	oint All
Ost site All - Dst endpoint All - Dst token All - Include endpoints Enter variable	Exclude endpoints none Dst rows dst_cloud ~ Src columns src_cloud ~ Selected (1)	
	ATLAS Theme ATLAS Theme (compact legend) Default Grafana Dark BEIJING-LCG2 BNL-ATLAS BNL-PC	
Overview & Help (1 panel)	CA-SFU-T2	
Matrix (Efficiency) (1 panel)	CA-VICTORIA-WESTGRID-T2	
Matrix (Failures) (1 panel)	CRN-PROD	
Matrix (Successes) (1 panel)	CSCS-LCG2	
Transfer Table (1 panel)	CYFRONET-LCG2	
Transfer Plots (6 panels)	DESY-ZN	
Transfer Errors (1 panel)	EELA-UTFSM	





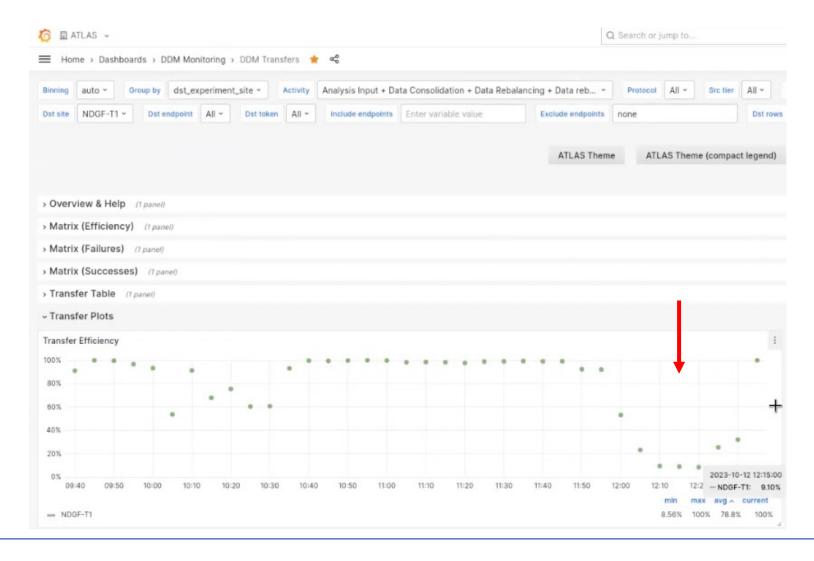


Transfer Failures overview





Transfer efficiency







Error Overview

data.purged_reason

TRANSFER ERROR: Copy failed (3rd pull). Last attempt: copy curl error (18): Transferred a partial file

Count 6.38 K



Transfers details

Transfer Errors	(1 panel)															
Transfer Details	•				•											
Fransfer Details																1
Timestamp	Activity	Scope	Name	Reason	Туре	Source RSE	Destination RSE	Duration	Bytes	FTS Link	Source URL	Destination URL	Protocol	File size	dataid	dataver
2023-10-12 12:4	Analysis Input	data22_13p6TeV	data22_13p6TeV	TRANSFER ERRO	transfer-failed	CERN-PROD_DAT	NDGF-T1_DATADI	52.0 s	4.31 GB	https://fts3-atlas	davs://eosatlas.c	davs://dav.ndgf.o	davs	4307188219	-141992468-169	1697114
2023-10-12 12:4	Analysis Input	data22_13p6TeV	data22_13p6TeV	TRANSFER ERRO	transfer-failed	CERN-PROD_DAT	NDGF-T1_DATADI	51.0 s	2.62 GB	https://fts3-atlas	davs://eosatlas.c	davs://dav.ndgf.o	davs	2616794050	-1852377569-16	1697114
2023-10-12 12:4	Production Output	mc16_13TeV	HITS.35120782	TRANSFER ERRO	transfer-failed	BNL-OSG2_DATA	NDGF-T1_DATADI	52.0 s	7.50 GB	https://fts3-atlas	davs://dcgftp.us	davs://dav.ndgf.o	davs	7495717968	-1197862114-169	1697114
2023-10-12 12:4	Production Output	mc16_13TeV	HITS.35120782	TRANSFER ERRO	transfer-failed	BNL-OSG2_DATA	NDGF-T1_DATADI	52.0 s	7.51 GB	https://fts3-atlas	davs://dcgftp.us	davs://dav.ndgf.o	davs	7507160044	-1982517652-16	1697114
2023-10-12 12:4	Analysis Input	data22_13p6TeV	data22_13p6TeV	0 @ @	transfer-done	CERN-PROD_DAT	NDGF-T1_DATADI	45.0 s	4.57 GB	https://fts3-atlas	davs://eosatlas.c	davs://dav.ndgf.o	davs	4568207610	982519928-1697	1697114
2023-10-12 12:4	Production Output	mc16_13TeV	DAOD_STDM7.34	TRANSFER ERRO	transfer-failed	FZK-LCG2_DATA	NDGF-T1_DATADI	51.0 s	8.26 GB	https://fts3-atlas	davs://atlaswebd	davs://dav.ndgf.o	davs	8256457996	879000719-1697	1697114
2023-10-12 12:4	Production Output	mc20_13TeV	DAOD_PHYS.351	TRANSFER ERRO	transfer-failed	IFIC-LCG2_DATA	NDGF-T1_DATADI	51.0 s	3.09 GB	https://fts3-atlas	davs://srmdav.ifi	davs://dav.ndgf.o	davs	3090353776	537485629-1697	1697114
2023-10-12 12:4	Analysis Input	mc16_13TeV	DAOD_HIGG5D2	TRANSFER ERRO	transfer-failed	INFN-NAPOLI-AT	NDGF-T1_DATADI	51.0 s	1.76 GB	https://fts3-atlas	davs://t2-dcache	davs://dav.ndgf.o	davs	1761038511	401638648-1697	1697114
2023-10-12 12:4	Analysis Input	data22_13p6TeV	data22_13p6TeV	TRANSFER ERRO	transfer-failed	CERN-PROD_DAT	NDGF-T1_DATADI	51.0 s	3.97 GB	https://fts3-atlas	davs://eosatlas.c	davs://dav.ndgf.o	davs	3968467050	-319736481-169	1697114
2023-10-12 12:4	Analysis Input	data22_13p6TeV	data22_13p6TeV	TRANSFER ERRO	transfer-failed	CERN-PROD_DAT	NDGF-T1_DATADI	51.0 s	4.93 GB	https://fts3-atlas	davs://eosatlas.c	davs://dav.ndgf.o	davs	4929359580	-987172879-169	1697114
2023-10-12 12:4	Staging	mc16_13TeV	AOD.29228564	0	transfer-done	BNL-OSG2_MCT	NDGF-T1_DATADI	6.4 min	9.36 GB	https://fts3-atlas	srm://dcsrm.usat	davs://dav.ndgf.o	davs	9364085024	1409454501-169	1697114



Transfers details => UI

Transfer Details

Timestamp	Activity	Scope	Name	Reason	Туре	Source RSE	Destination RSE	Duration
2023-10-12 12:4	Analysis Input	data22_13p6TeV	data22_13p6TeV	TRANSFER ERRO	transfer-failed	CERN-PROD_DAT	NDGF-T1_DATADI	52.0 s
2023-10-12 12:4	Analysis Input	data22_13p6TeV	data22_13p6TeV.004	430897.physics_Main.	merge.AOD.f1259_m	2118Ib00730003.1 @	Q Q SF-T1_DATADI	51.0 s
2023-10-12 12:4	Production Output	mc16_13TeV	HITS.35 20782 UI Link	TRANSFER ERRO	transfer-failed	BNL-OSG2_DATA	NDGF-T1_DATADI	52.0 s
2023-10-12 12:4	Production Output	mc16_13TeV	HITS.35120782	TRANSFER ERRO	transfer-failed	BNL-OSG2_DATA	NDGF-T1_DATADI	52.0 s
2023-10-12 12:4	Analysis Input	data22_13p6TeV	data22_13p6TeV	0	transfer-done	CERN-PROD_DAT	NDGF-T1_DATADI	45.0 s
2023-10-12 12:4	Production Output	mc16_13TeV	DAOD_STDM7.34	TRANSFER ERRO	transfer-failed	FZK-LCG2_DATA	NDGF-T1_DATADI	51.0 s
2023-10-12 12:4	Production Output	mc20_13TeV	DAOD_PHYS.351	TRANSFER ERRO	transfer-failed	IFIC-LCG2_DATA	NDGF-T1_DATADI	51.0 s
2023-10-12 12:4	Analysis Input	mc16_13TeV	DAOD_HIGG5D2	TRANSFER ERRO	transfer-failed	INFN-NAPOLI-AT	NDGF-T1_DATADI	51.0 s
2023-10-12 12:4	Analysis Input	data22_13p6TeV	data22_13p6TeV	TRANSFER ERRO	transfer-failed	CERN-PROD_DAT	NDGF-T1_DATADI	51.0 s
2023-10-12 12:4	Analysis Input	data22_13p6TeV	data22_13p6TeV	TRANSFER ERRO	transfer-failed	CERN-PROD_DAT	NDGF-T1_DATADI	51.0 s
2023-10-12 12:4	Staging	mc16_13TeV	AOD.29228564	0	transfer-done	BNL-OSG2_MCT	NDGF-T1_DATADI	6.4 min



Transfers monitoring

Transfer '6b04a402-68c8-11ee-9895-fa163e017123' FAILED





{"issuer": "rucio", "multi_sources": false, "multihop": true, "auth_method": "certificate"}

Files transferred	Bytes transferred	Submission time	Start time		Running time	Avg.	file throughput	Current job th	roughput
1 out of 2	4.01 GiB	2023-10-12T06:27:29Z	2023-10-12T06	:28:16Z (+47s)	11156 s	58.4	L MiB/s		
Showing 1 to 2 out of 2									
SUBMITTED DELETE READY	STAGING ARCHIVING ACTIVE START	TED CANCELED 1 FAILED 1 FINISHED NOT_USED							
First Previous 1 Next	Last								/
File ID F	ile State File Size	Throughput Remaining	Start Time	Finish Time	Staging Start	Staging End	Archiving Start	Archiving End	
+ 5719106117	FINISHED 4.01 GIB	58.41 MiB/s -	2023-10-12T09:32:36Z	2023-10-12T09:34:12Z	2023-10-12T06:28:16Z	2023-10-12T09:32:29Z		-	Log
A davs://eosctaatlas.cern	.ch:8444/eos/ctaatlas/archive/grid/	/atlas/rucio/derived/data22_13p6TeV/physics_Main,	/00431810/data22_13p6TeV.00431810.p	hysics_Main.merge.A00.f1263	3_m2121/data22_13p6TeV.0043	1810.physics_Main.merge.	AOD.f1263_m2121lb0254000	5.1?copy_mode=pull	
▲ davs://eosatlas.cern.ch	:443/eos/atlas/atlasdatadisk/rucio/	/data22_13p6TeV/07/d2/data22_13p6TeV.00431810.phg	/sics_Main.merge.AOD.f1263_m2121l	b02540005.1					
➡ 5719106118	FAILED 4.01 GIB	0.00 MiB/s -	2023-10-12T12:39:19Z	2023-10-12T12:40:12Z	-	-	-	-	Log
A davs://eosatlas.cern.ch	:443/eos/atlas/atlasdatadisk/rucio/	/data22_13p6TeV/07/d2/data22_13p6TeV.00431810.ph	ysics_Main.merge.AOD.f1263_m2121l	b02540005.1?copy_mode=pul	11				
A days://day.pdaf.org:443	/atlac/dick/atlacdatadick/cucia/dat	a22 13p6TeV/07/d2/data22 13p6TeV.00431810.physic	s Main marga AOD f1263 m2121 lb02	54 0005 1					

🛓 davs://dav.ndgf.org:443/atlas/disk/atlasdatadisk/rucio/data22_13p6TeV/07/d2/data22_13p6TeV.00431810.physics_Main.merge.AOD.f1263_m2121._lb0254._0005.1

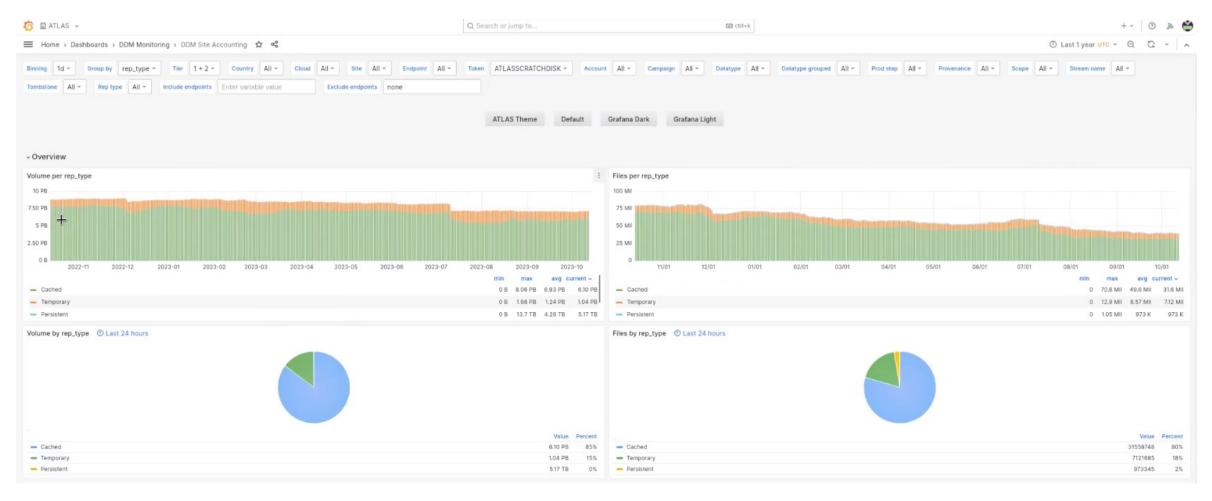


-> Deletion Errors @	
Deletion Error Overview	Count
data.purged_reason	18.73 K
The requested service is not available at the moment. Details: An unknown exception occurred. Details: DavPosix::unlink Connection timed out	10.73 N
The requested service is not available at the moment. Details: An unknown exception occurred. Details: Connection timed out	16.87 K
The requested service is not available at the moment. Details: An unknown exception occurred. Details: timeout of 20s	1.10 K

Deletion Errors Overview (FTS) – Error message count



Rucio monitoring



Storage space status





Rucio WebUl

- Replication rules and their behaviour;
- Rucio Storage Elements (RSEs) locks monitoring;
- RSEs usage;

Welcome to Rucio UI



SCIENTIFIC DATA MANAGEMENT

Rucio monitoring

Rucio Documentation Python Client API REST API

>

>

V

>

>

<u>Welcome</u>

Getting Started

13. S.

<u>User</u>

Operator

<u>Setting up a Rucio demo</u> environment

Installing Rucio Server

Installing Rucio Daemons

Configuration

Multi-VO Rucio

Monitoring

Executables

Database Operations
Administration Tricks
Configuration parameters
<u>Transfers</u>
DID Metadata
Policy Packages
S3 Storage Configuration
Notifications

There are three different monitoring components:

- Rucio internal monitoring using Graphite/Grafana
- Transfer monitoring using the messages sent by Hermes
- File/Dataset Access monitoring using the traces

Internal Monitoring

This is to monitor the internals of Rucio servers and daemons, e.g., submission rate of the conveyor, state of conveyor queues, reaper deletion rate, server response times, server active session, etc. We use Graphite¹ for this. It's easy to setup and then you have to point your Rucio instance to the Graphite server using the \"carbon_server" options in the "monitor" section in etc/rucio.cfg.

The different Rucio components will then send metrics using those "record" functions you will find all over the code. Graphite has a built-in web interface to show graphs but more comfortable to use is the Grafana² tool.

The internal monitoring functions are defined in core/monitor.py, it includes:

record_counter. This is to send the StatsD counter metrics. Counters are the most basic and default type.
 They are treated as a count of a type of event per second, and are, in Graphite, typically averaged over one minute. That is, when looking at a graph, you are usually seeing the average number of events per second

https://rucio.cern.ch/documentation/operator/monitoring/



Rucio monitoring

Rucio Documentation Python Client API REST API

Welcome The list of Rucio internal metrics **Getting Started** > 1) Core User > **Operator** \sim credential.signswift, credential.signs3 (timer) trace.nongrid_trace Setting up a Rucio demo core.request.* (counter) environment core.request.archive_request.* (timer) rule.add rule, rule.add_rule.*, rule.delete_rule, rule.evaluate_did_detach, rule.evaluate_did Installing Rucio Server trace.trace (counter) Installing Rucio Daemons Configuration 2) Transfertool Multi-VO Rucio transfertool.fts3.delegate_proxy.success.*, \ Monitoring transfertool.fts3.delegate_proxy.fail.* (timer) transfertool.fts3.submit_transfer.[externalhost] (timer) **Database Operations** transfertool.fts3.[externalhost].submission.success/failure (counter) **Administration Tricks** transfertool.fts3.[externalhost].cancel.success/failure (counter) transfertool.fts3.[externalhost].update_priority.success/failure (counter) **Configuration parameters** transfertool.fts3.[externalhost].query.success/failure (counter) transfertool.fts3.[externalhost].whoami.failure (counter) > Transfers transfertool.fts3.[externalhost].Version.failure (counter) transfertool.fts3.[externalhost].guery_details.failure (counter) **DID Metadata** transfertool.fts3.[externalhost].bulk_query.failure (counter) transfertool.fts3.[externalhost].guery latest.failure (counter) Policy Packages transfertool.fts3myproxy.[externalhost].submission.success/failure (counter) S3 Storage Configuration

https://rucio.cern.ch/documentation/operator/monitoring/



• Files	rucio /	etc / docker / dev / docker-compose-storage-monit.yml	\uparrow	Dava
° master → + Q	Code	Blame 190 lines (190 loc) · 6.27 KB	Raw 🖸 🗶 🖉 🔻	Deve
Q Go to file		activemq:		
		<pre>image: docker.io/webcenter/activemq:latest</pre>		
		ports:		
> 🖿 .github	157 158	- "127.0.0.1:61613:61613" - "127.0.0.1:8161:8161"		
> 🖿 bin	158	environment:		😽 elastic
Provide State Stat	160	- ACTIVEMQ_CONFIG_NAME=activemq		
·∽ 🖿 etc	161	- ACTIVENQ_CONFIG_DEFAULTACCOUNT=false		
> 🖿 auditor	162	- ACTIVEMQ_USERS_fts=supersecret		
	163	- ACTIVEMQ_USERS_hermes=supersecret		k
> 🖿 certs	164	 ACTIVEMQ_USERS_logstash=supersecret 		
✓ ☐ docker	165	- ACTIVEMQ_USERS_receiver=supersecret		
	166	<pre>- ACTIVEMQ_GROUPS_writes=hermes,fts</pre>		
🗸 🖿 dev	167	– ACTIVEMQ_GROUPS_reads=logstash, receiver		
README.rst	168	<pre>- ACTIVEMQ_CONFIG_SCHEDULERENABLED=true</pre>		
	169	elasticsearch:		A
🗋 docker-compose-storage-alldb.yml	170	image: docker.io/elasticsearch:7.4.0		
	171	ports:		
🗋 docker-compose-storage-externalmetadata.yml	172	- "127.0.0.1:9200:9200"		
🗋 docker-compose-storage-iam.yml	173	- "127.0.0.1:9300:9300"		
	174	environment:		
🗋 docker-compose-storage-monit.yml	175	- discovery.type=single-node		
🗋 docker-compose-storage.yml	176	logstash:		
	177	<pre>image: docker.elastic.co/logstash/logstash-oss:7.3.2</pre>		
🗋 docker-compose.yml	178	ports:		
pipeline.conf	179	- "127.0.0.1:5044:5044"		
	180	command: bash -c "logstash-plugin install logstash-input-stomp ; /usr/local/bin/do	cker-entrypoint"	
> 🖿 test	181	volumes:		
	182	/pipeline.conf:/usr/share/logstash/pipeline/pipeline.conf:Z		
> 🖿 iam-assets	183	kibana:		
> mail_templates	184	image: docker.io/kibana:7.4.0		
	185	ports:		
> 🖿 sql/oracle	186	- "127.0.0.1:5601:5601"		
Documentation • Share feedback	187	grafana:		
	188	image: docker.io/grafana/grafana:latest		

Development







https://github.com/rucio/rucio/blob/master/etc/docker/dev/docker-compose-storage-monit.yml



DIRAC & Rucio Workshop 2023

Questions



Extra slides



You are here: Data Identifier [data22_13p6TeV:data22_13p6TeV.00430897.physics_Main.merge.AOD.f1259_m2118._lb0073_0003.1] **DID** Metadata accessed at Tue, 11 Jul 2023 05:10:43 UTC account tzero adler32 bee3d983 availability AVAILABLE Mon, 15 Aug 2022 11:42:35 UTC created at datatype AOD FILE dld_type events 13591 filesize 2.62 GB guld 2e9fa12ca2806a499d216671945a656b hidden false lumiblocknr 73 false monotonic data22_13p6TeV.00430897.physics_Main.merge.AOD.f1259_m2118. lb0073. 0003.1 name false obsolete prod_step merge data22 13p6TeV project purge_replicas true 430897 run_number data22_13p6TeV scope stream name physics_Main suppressed false updated at Tue, 11 Jul 2023 05:10:43 UTC version f1259_m2118



File Replica States

File Replica States	
Show 10 - entries	
Filename	A Replicas
data22_13p6TeV:data22_13p6TeV.00430897.physics_Main.merge.AOD.f1259_m2118ib00730003.1	CERN-PROD_DATADISK CERN-PROD_DERIVED NDGF-T1_DATADISK
Filename	Replicas
Showing 1 to 1 of 1 entries	
Color Codes	
AVAILABLE UNAVAILABLE COPYING BEING DELETED BAD TEMPORARY UNAVAILABLE	

ow	
tries	
DID	🔺 Туре
ata22_13p6TeV:data22_13p6TeV.00430897.physics_Main.merge.AOD.11259_m2118	DATASET
anda:panda.200.10.12.AOD.transfer.176e9eb3-f541-4fd8-93a9-a73616788314_dis5987911682	DATASET
סוס	Туре



DID Metadata

DID Metadata	
account	panda
availability	AVAILABLE
closed_at	Thu, 12 Oct 2023 06:04:45 UTC
created_at	Thu, 12 Oct 2023 06:04:44 UTC
did_type	DATASET
events	494970
expired_at	Thu, 19 Oct 2023 06:04:45 UTC
filesize	94.59 GB
hidden	true
Is_open	false
length	21
monotonic	false
name	panda.200.10.12.AOD.transfer.176e9eb3-I541-4fd8-93a9-a73616788314_dis5987911682
obsolete	faise
purge_replicas	faise
scope	panda
suppressed	false
task_ld	35092180
updated_at	Thu, 12 Oct 2023 06:05:23 UTC

Rules

Show 10 - entries			
Rule	A State	Account	Subscription
NDGF-T1_DATADISK	REPLICATING	panda	
Rule	State	Account	Subscription
Showing 1 to 1 of 1 entries			



Rule metadata

Rule metadata	
account	panda
activity	Analysis Input
comments	task_id:3[092180
copies	1
created_at	Thu, 12 Oct 2023 06:05:34 UTC
dld_type	DATASET
expires_at	Thu, 19 Oct 2023 06:05:34 UTC 🕂 🗙
grouping	DATASET
Id	879ca74664da4b8b915ce6010ffb0c45
Ignore_account_limit	faise
Ignore_availability	true
locked	false
locks_ok_ent	11
locks_replicating_cnt	10
locks_stuck_cnt	0
name	panda.200.10.12.AOD.transfer.176e9eb3-t541-4td8-93a9-a73616788314_dis5987911682
notification	CLOSE
priority	3
purge_replicas	false
rse_expression	NDGF-T1_DATADISK
scope	panda
split_container	false
state	REPLICATING
updated_at	Thu, 12 Oct 2023 12:39:33 UTC
Boost rule	

