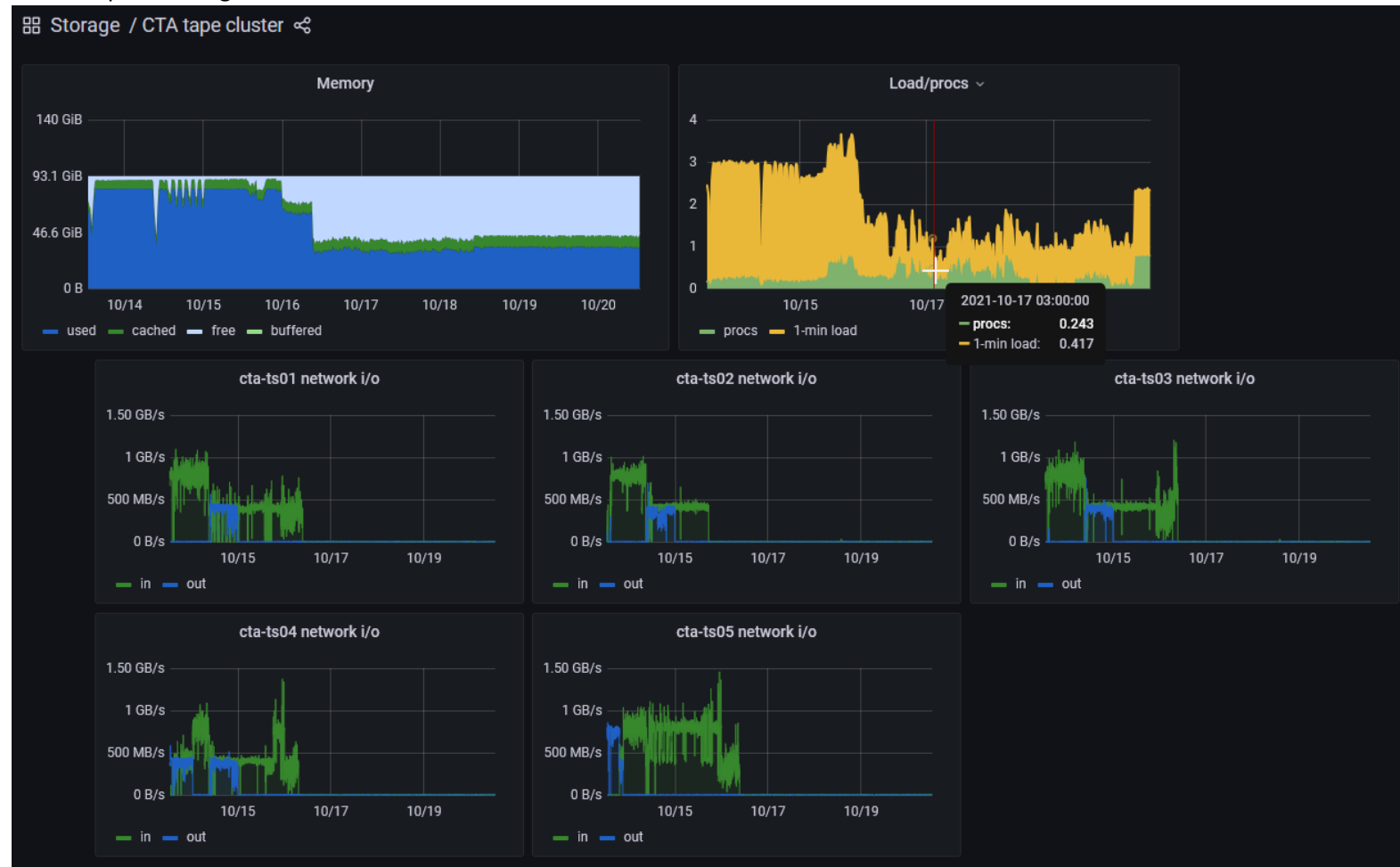


Tier1 Report 20/10/2021

Activity from last week:

WLCG Tape Challenge



Operational issues from last week:

A reasonably successful conclusion to the tape challenge. Data rates arguably not necessarily as good as we might have hoped but certainly not an outright failure.

One point of interest, we had 10,000 CMS files that appear to have been written to tape, seem to have been deleted from the EOS namespace. They were located in the CTA recycle bin from where they can be restored.

Although it is conceivable that the deletions happened because of a clean-up that the FTS did after failed write attempts, what is most likely is that there were initiated by EOS due to an error occurring at some point in the archival process.

We are liaising with cta-support at CERN about these two issues which may or may not be related

It is worth noting that the XRootD TPC proxies (first one and then two of them) on which the Antares is relying to handle the client requests fell over repeatedly during the week either due to load or to unknown reason(s).

Total data volumes written to tape by three VO's as of 17:15, 15/10/2021 were

ATLAS 368TB

CMS 242TB

LHCb 394TB

Open GGUS tickets:

Ticket-ID	Type	VO	Priority	Status	Last Update	Subject	Owner
154436	TEAM	atlas	very urgent	in progress	19/10/2021 09:56	slow transfers CERN - RAL	JamesW
154411	TEAM	lhcb	urgent	in progress	20/10/2021 07:16	WN gateways not configured to support XRootD checksum requests	TomBy

Ticket-ID	Type	VO	Priority	Status	Last Update	Subject	Owner
154399	USER	cms	very urgent	in progress	15/10/2021 11:04	CMS Hammer Cloud jobs are failing due to auth error accessing Echo (probably all jobs)	Ceph
154363	USER	cms	urgent	waiting for reply	15/10/2021 15:24	RAL-FTS transfer requests failing from CERN_Tape to T2_CH_CERN	BrianD
154254	TEAM	lhcb	top priority	in progress	20/10/2021 11:57	File replicated successfully by FTS is not present on Echo	KatyE
154251	USER	cms	urgent	in progress	04/10/2021 14:28	Tape writing test at RAL_Tape	KatyE
154235	TEAM	atlas	less urgent	in progress	20/10/2021 11:16	RAL-LCG2 transfers fail with "TRANSFER globus_ftp_client: the server responded with an error 451 General problem"	RobA
154200	TEAM	atlas	less urgent	on hold	13/10/2021 11:08	RAL-LCG2 deletion issues with error "The requested service is not available at the moment"	TomBy
154196	USER	cms	urgent	in progress	20/10/2021 10:46	Transfers from T2_US_Florida to T1_UK_RAL_Disk are failing	KatyE
153707	USER	none	less urgent	in progress	20/10/2021 11:51	ATTENTION - configure new VOMS servers for LHC experiments (RAL-LCG2)	DarrenM
153367	TEAM	atlas	urgent	in progress	20/10/2021 09:54	HTTPS on RAL CTA	JamesW
152778	USER	ops	less urgent	in progress	20/10/2021 11:29	[Dashboard] Issues detected at RAL-LCG2	JoseC
150653	TEAM	lhcb	urgent	in progress	20/10/2021 10:09	FTS error: libX509SciTokensIssuer.so not found	BrianD

Ticket-ID	Type	VO	Priority	Status	Last Update	Subject	Owner
142350	TEAM	lhcb	top priority	on hold	15/09/2021 11:24	Proble accessing some LHCb files at RAL	LHCbRep

Closed GGUS tickets:

Ticket-ID	Type	VO	Priority	Status	Last Update	Subject
154239	USER	cms	urgent	closed	18/10/2021 23:59	XRootD tests failiing at T1_UK_RAL
154131	USER	none	less urgent	solved	20/10/2021 10:40	Oct 11-15 WLCG tape challenge communication (RAL-LCG2)
154096	TEAM	lhcb	urgent	solved	20/10/2021 10:36	October tape data challenge preparation

CMS: https://cmsst.web.cern.ch/sitereadiness/report.html#T1_UK_RAL

T1_UK_RAL																	
GGUS Tickets:	154196, 154251				154363				154399								
Downtimes:																	
SAM Status:	100%	100%	100%	99%	93%	70%	32%	99%	99%	91%	99%	100%	100%	95%	97%	97%	
Hammer Cloud:	90%	96%	95%	95%	94%	87%	95%	96%	99%	96%	99%	98%	99%	98%	99%	98%	
FTS Status:	71%	77%	81%	29%	45%	19%	8%	73%	70%	70%	58%	50%	60%	43%	68%	82%	
Site Readiness:																	
	41%	52%	44%	34%	30%	21%	5%	38%	30%	33%	34%	43%	22%	21%	32%	43%	
Life Status:																	
Prod Status:																	
CRAB Status:																	
	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Oct																

ATLAS:

<http://hammercloud.cern.ch/hc/app/atlas/siteoverview/?site=RAL-LCG2&startTime=2021-05-24&endTime=2021-05-31&templateType=isGolden>

RAL

952 (functional) ...
883 (functional) ...
957 (functional) ...
1013 (functional)...

Template: 952 (functional) - AFT Eventloop 21.2.1 Analy

Time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Eff[%]	
20/10/21	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	r	0	0	0	0	0	0	0	0	0	100
19/10/21	c	c	c	c	s	f	c	c	c	f	c	s	m	f	c	c	c	c	c	c	c	c	c	c	c	96
18/10/21	c	c	c	c	s	c	c	c	c	s	c	c	c	c	s	c	c	c	c	c	c	c	c	c	f	99
17/10/21	s	s	s	s	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	100
16/10/21	c	c	c	c	c	c	s	s	s	s	c	c	c	c	s	s	s	s	c	c	c	c	c	c	c	100
15/10/21	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	s	s	s	s	c	c	s	s	c	c	100
14/10/21	m	m	m	m	c	m	c	c	c	m	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	95
13/10/21	c	c	c	m	c	c	c	m	c	c	c	c	m	m	c	s	s	c	c	c	s	s	s	c	c	89
12/10/21	c	c	c	c	c	c	s	c	c	c	c	c	c	c	c	s	s	c	s	c	s	c	s	c	m	95

Error Report
[+] Expand

Show All entries
Search:

Showing 1 to 27 of 27 entries ◀ ▶

RAL

952 (functional) ...		883 (functional) ...		957 (functional) ...		1013 (functional)...																				
Template: 957 (functional) - PFT mc15 Sim_tf 21.0.16																										
Time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Eff[%]	
20/10/21	c	c	c	s	s	s	s	c	c	s	c	s	c	c	c	c	c	r	0	0	0	0	0	0	0	100
19/10/21	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	s	c	s	c	c	c	97
18/10/21	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	99
17/10/21	c	s	s	s	s	s	c	s	c	c	s	c	c	s	c	c	c	c	c	s	c	c	c	c	c	100
16/10/21	s	s	c	c	c	s	s	s	c	c	s	c	c	c	c	c	c	c	c	s	c	c	c	c	c	100
15/10/21	c	s	s	s	s	s	c	s	c	c	c	c	c	s	c	c	s	c	c	s	s	s	s	c	s	100
14/10/21	s	s	s	s	s	c	c	c	s	c	c	c	c	c	c	s	s	s	s	s	s	s	c	c	s	100
13/10/21	c	s	s	s	s	c	c	s	c	c	s	c	c	c	c	s	c	c	s	s	s	s	s	s	c	100
12/10/21	c	s	s	s	c	s	c	c	c	s	c	c	c	c	s	s	s	s	s	s	s	s	s	s	c	100

Error Report

[+] Expand

Show All entries

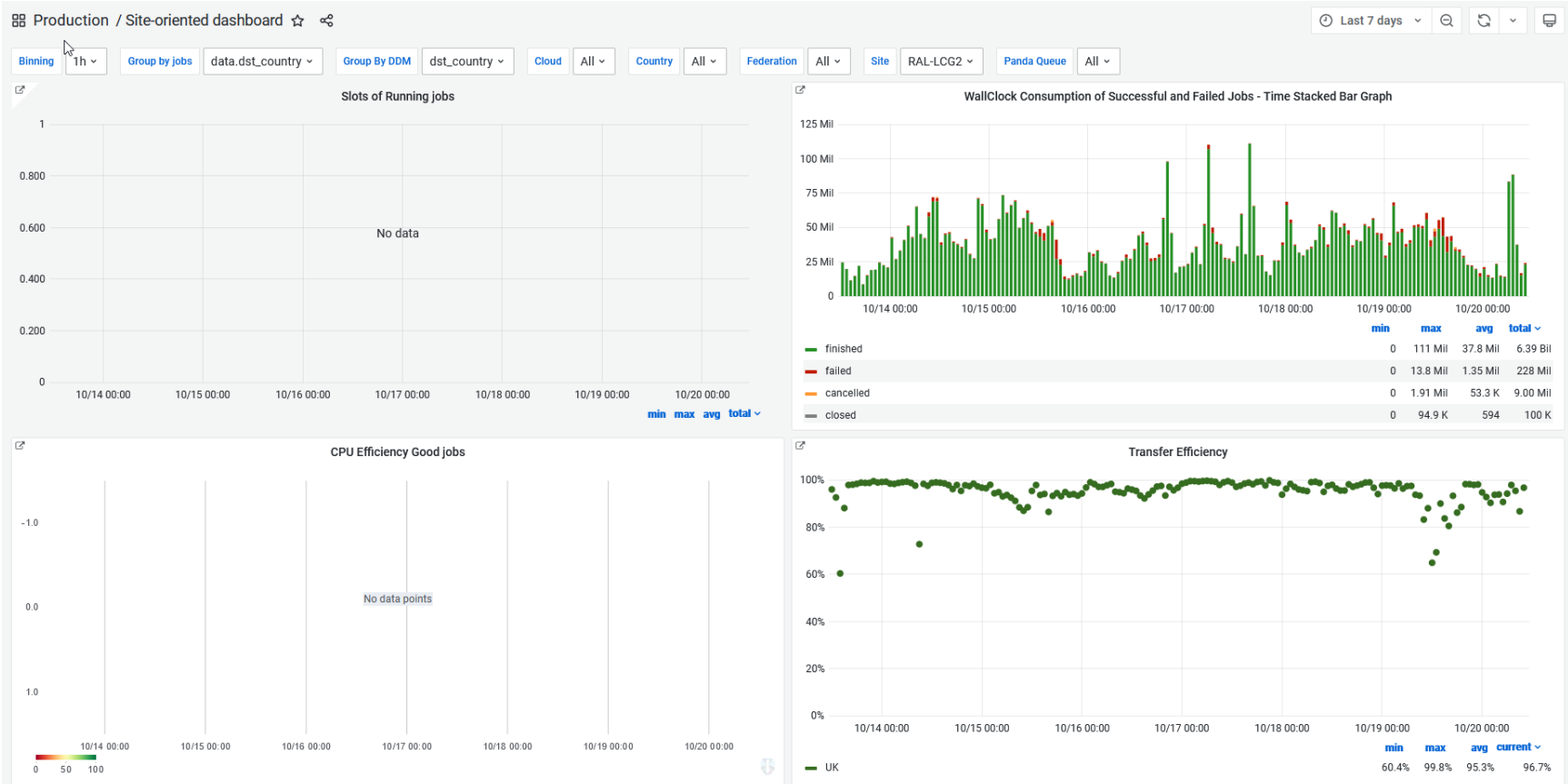
Search:

Showing 1 to 3 of 3 entries



Site Dashboard:

https://monit-grafana.cern.ch/d/D26vElGGz/site-oriented-dashboard?orgId=17&var-groupby_jobs=data.dst_country&var-groupby_ddm=dst_country&var-cloud=All&var-country=All&var-federation=All&var-site=RAL-LCG2&var-computingsite=All



LHCb:

https://monit-grafana.cern.ch/d/000000619/wlwg-sitemon-historical-profiles?orgId=20&from=now-30d&to=now&var-vo=lhcb&var-profile=LHCb_CRITICAL&var-dst_tier=1&var-dst_country=UK&var-dst_federation=All&var-dst_experiment_site=LCG.RAL.uk&var-service_flavour=ARC-CE&var-dst_hostname=All&var-recomputation=status

SiteMon / WLOG SiteMon Historical Profiles ☆ ↶

Last 30 days UTC 🔍 ↻ ⌵ 🗨

VO lhcb Profile LHCB_CRITICAL Tier 1 Country UK Federation All Site LCG.RAL.Uk Flavour ARC-CE Hostname All Recomputations status

More Dashboards 🌐 Website

This dashboard shows the availability, reliability, and status computation from ETF tests. To use it:

1. Apply the desired selection using the filters on top (dashboard will also load faster).
2. Click on "Availability & Reliability", "Site Status", "Endpoint Status", or "Test Status" to see results. Scroll up/down for more results.

> Availability & Reliability (2 panels)
 > Site Status (1 panel)
 < Endpoint Status

[LCG.RAL.uk] [ARC-CE] [arc-ce-test02.gridpp.rl.ac.uk] lhcb:	OK	OK	OK	OK	OK
[LCG.RAL.uk] [ARC-CE] [arc-ce01.gridpp.rl.ac.uk] lhcb:	OK	OK	OK	OK	OK
[LCG.RAL.uk] [ARC-CE] [arc-ce02.gridpp.rl.ac.uk] lhcb:	OK	OK	OK	OK	OK
[LCG.RAL.uk] [ARC-CE] [arc-ce03.gridpp.rl.ac.uk] lhcb:	OK	OK	OK	OK	OK
[LCG.RAL.uk] [ARC-CE] [arc-ce04.gridpp.rl.ac.uk] lhcb:	OK	OK	OK	OK	OK
[LCG.RAL.uk] [ARC-CE] [arc-ce05.gridpp.rl.ac.uk] lhcb:	OK	OK	OK	OK	OK

Atlas Report

General

- CERN network outage; Friday pm; <https://cern.service-now.com/service-portal?id=outage&n=OTG0066817>
- o Memory issues on Routers; no real impact observed for UK jobs.

T1

- Tape challenge completed
- o Needs post-mortem to make more detailed assessment; however for ATLAS appeared mainly successful
- 🔗 Did not achieve quite the Run-3 rates with main VOs writing (but with much less infrastructure in place)
- 🔗 Archives (from CERN) and retrievals (to Echo) demonstrated using xroot
- 🔗
- General reports of slow (and failing) transfers with davs:

- o davs from CERN appears slow (relative to main other T1s)
- o Success efficiency is (generally) high for ATLAS (i.e >95%); CMS reports lower
- o Investigations ongoing, but transfer rates (for any protocol) into RAL are not particularly great in direct transfer tests from cern

CMS Report

LHCb Report

LSST Report