

Tier1 Report 04/09/2024

Activity for Last Week:

- Double B/H
- Gridpp52
 - No major issue during the week
 - Tape backlog since Monday
 - Quite a few CMS requests
- ALICE/CMS-AAA Xroot GWs upgraded to 5.7.0

Changes/News for upcoming week

- Batch
- Echo
- Tape
- Grid Services
- Network

Open GGUS tickets <https://tinyurl.com/38u6yms8>

7 of 7 Tickets

Ticket-ID	Type	VO	Site	Priority	Resp. Unit	Status	Last Update	Subject	Scope
165280		other	RAL-LCG2	less urgent	NGI_UK ▶ involved	waiting for reply	2024-08-20	Recent file transfer issues at RAL	EGI
160737		ops	RAL-LCG2	less urgent	NGI_UK	on hold	2024-09-04	[Dashboard] Issues detected at RAL-LCG2	EGI
165818		none	RAL-LCG2	urgent	NGI_UK	in progress	2024-09-02	ATTENTION - new TOKEN configuration for ...	EGI
165323		none	RAL-LCG2	less urgent	NGI_UK	on hold	2024-06-12	RAL-LCG2: Enabling tokens on ...	EGI
167369		cms	RAL-LCG2	urgent	NGI_UK ▶ involved	on hold	2024-08-15	CVMFS stratum-1 server at RAL	WLCG
165969		cms	RAL-LCG2	urgent	NGI_UK	on hold	2024-09-03	enabling IAM token access to ARC-CEs at ...	WLCG
167946		atlas	RAL-LCG2	very urgent	NGI_UK	waiting for reply	2024-09-04	New site unable to connect to RAL ATLAS ...	WLCG

Closed GGUS tickets:

<https://tinyurl.com/mr2x85w8>

1 of 1 Tickets

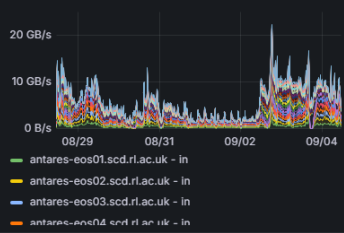
Ticket-ID	Type	VO	Site	Priority	Resp. Unit	Status	Last Update	Subject	Scope
160578	Team	atlas	RAL-LCG2	less urgent	NGI_UK	closed	2024-08-29	RAL-LCG2: deletion errors	WLCG

New Summary Dashboard in progress.

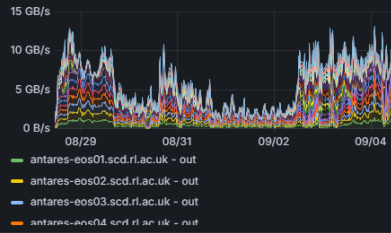
<https://vande.gridpp.rl.ac.uk/next/d/egvWB4Vz/tier1-vo-service-summary?orgId=1&refresh=1m>

count 2502856

EOS node network rates in

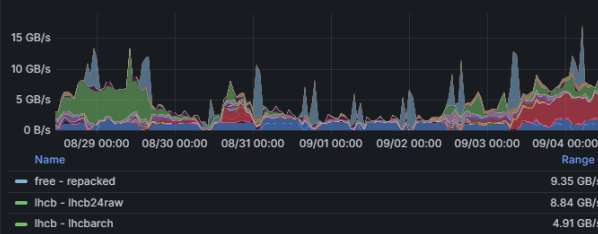


EOS node network rates out



Antares

Panel Title



Anatares EOS Sopace Fullness

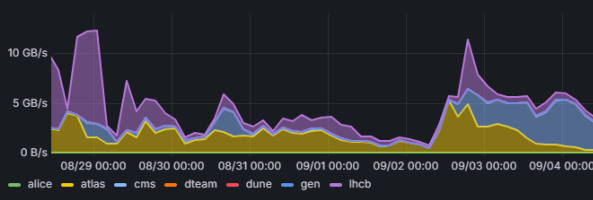


Echo

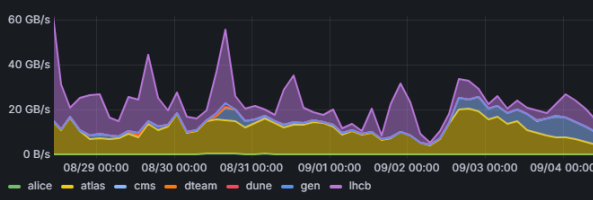
Joint xroot/WebDav Gateway Health

ceph-gw14.gridpp.rl.ac.uk	OK
ceph-gw15.gridpp.rl.ac.uk	OK
ceph-gw16.gridpp.rl.ac.uk	OK
ceph-svc01.gridpp.rl.ac.uk	OK
ceph-svc02.gridpp.rl.ac.uk	OK
ceph-svc03.gridpp.rl.ac.uk	OK
ceph-svc05.gridpp.rl.ac.uk	OK
ceph-svc07.gridpp.rl.ac.uk	OK
ceph-svc08.gridpp.rl.ac.uk	OK
ceph-svc09.gridpp.rl.ac.uk	OK
ceph-svc11.gridpp.rl.ac.uk	OK
ceph-svc13.gridpp.rl.ac.uk	OK
ceph-svc14.gridpp.rl.ac.uk	OK
ceph-svc15.gridpp.rl.ac.uk	OK
ceph-svc17.gridpp.rl.ac.uk	OK

Echo Write by VO



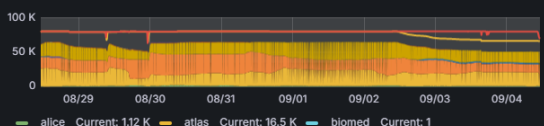
Echo Read by VO



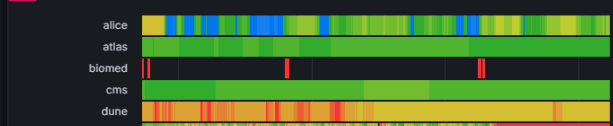
Batch Services

Available U	Av	To	Available C	Used Core:	Ru	Efficiency	Monthly Average Cores in use / allocation					
98.8%	95.3%	94.1%	65724	64922	28004	77.7%	group_ALICE	group_ATLAS	group_CMS	group_LHCB	group_LIGO	group_NONLHC
							59%	81%	284%	89%	0%	23%

Cores in use

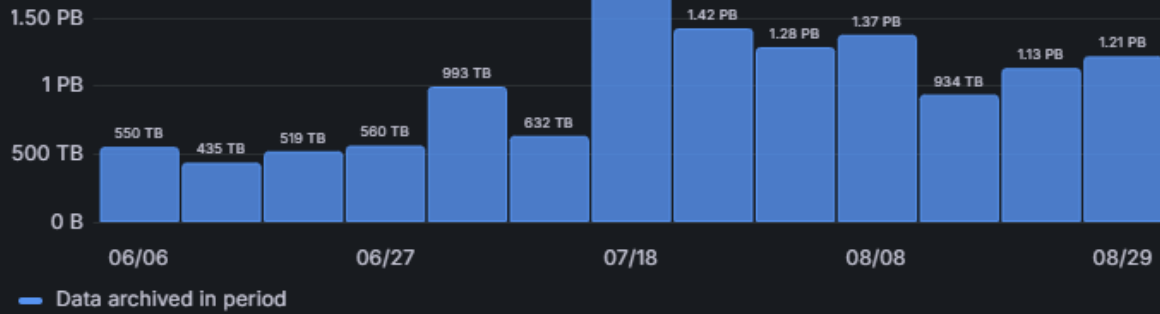


Job Time Ratios



Tape Usage:

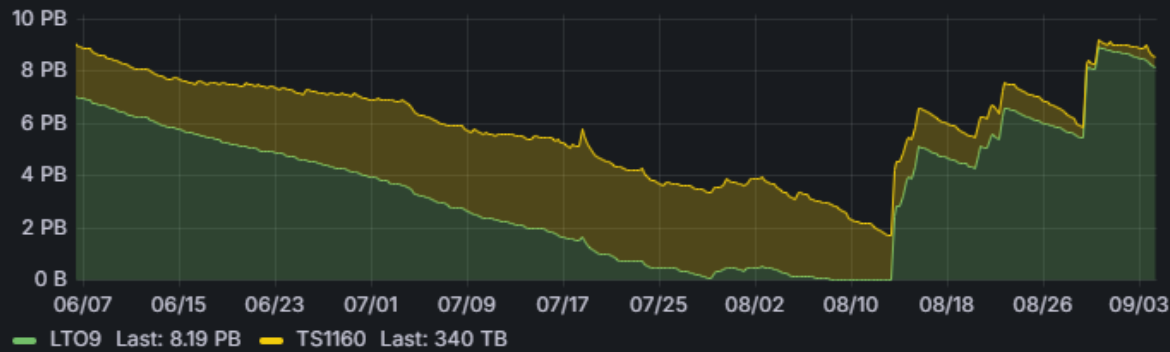
https://vande.gridpp.rl.ac.uk/next/d/db7ca8bf-6b53-4ca5-933d-6a63567aa772/asterix-media-supply-pool-usage?orgId=1&var-interval=2m&var-tape_use_interval=7d&from=now-90d&to=now



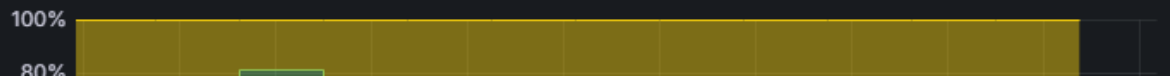
Free tapes by media type



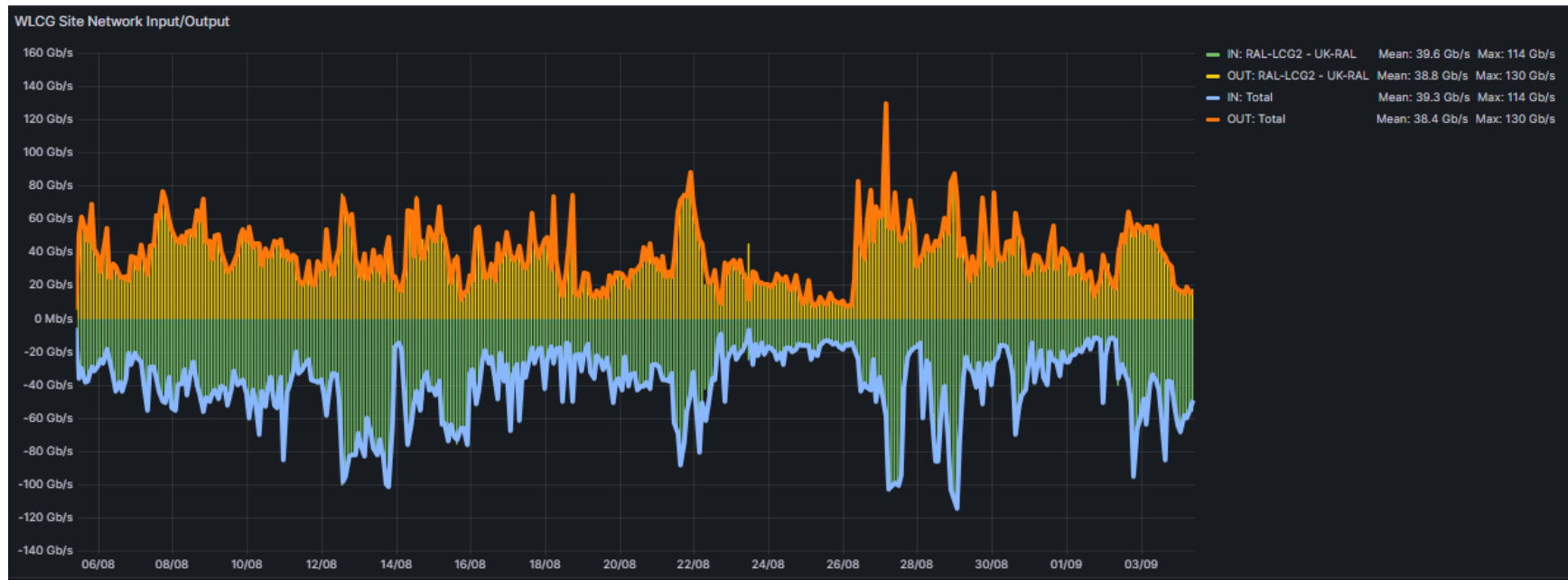
Spare capacities per media type (stacked)



Media type usage ratio in period

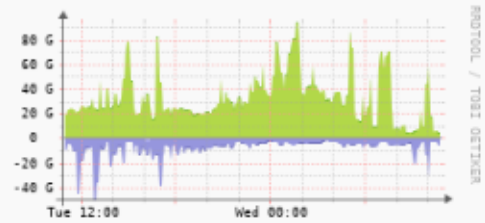


<https://monit-grafana-open.cern.ch/d/Mwuxgoglk/wlwg-site-network?orgId=16&var-site=RAL-LCG2&var-binning=1h&from=now-30d&to=now>

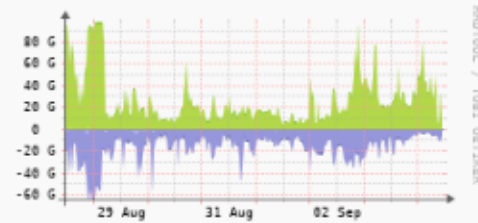


<https://librenms.gridpp.rl.ac.uk/ifttype/type=LHCOPN>

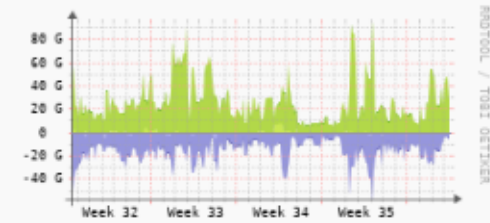
Total Graph for ports of type : LHCOPN



Bits/sec		Now	Avg	Max
t1er2	In	31.62Mbps	154.13Mbps	894.57Mbps
Vlan3	Out	16.72Mbps	110.89Mbps	2.82Gbps
t1er2	In	4.64Gbps	33.28Gbps	93.30Gbps
Vlan3	Out	5.41Gbps	7.39Gbps	49.11Gbps
swt-s	In	406.39kbps	846.30kbps	2.41Mbps
forty	Out	205.18kbps	408.98kbps	1.19Mbps
swt-s	In	414.01kbps	848.30kbps	2.45Mbps
forty	Out	217.15kbps	408.56kbps	1.18Mbps



Bits/sec		Now	Avg	Max
t1er2	In	54.92Mbps	238.74Mbps	1.90Gbps
Vlan3	Out	40.39Mbps	615.37Mbps	5.20Gbps
t1er2	In	8.70Gbps	26.69Gbps	96.34Gbps
Vlan3	Out	3.42Gbps	16.60Gbps	62.53Gbps
swt-s	In	597.54kbps	993.97kbps	2.42Mbps
forty	Out	292.66kbps	484.06kbps	1.15Mbps
swt-s	In	588.43kbps	994.41kbps	2.47Mbps
forty	Out	298.07kbps	483.17kbps	1.15Mbps



Bits/sec		Now	Avg	Max
t1er2	In	230.82Mbps	681.48Mbps	8.41Gbps
Vlan3	Out	77.97Mbps	605.06Mbps	6.27Gbps
t1er2	In	28.11Gbps	26.01Gbps	93.04Gbps
Vlan3	Out	4.93Gbps	15.81Gbps	56.42Gbps
swt-s	In	912.42kbps	1.28Mbps	3.68Mbps
forty	Out	431.08kbps	617.52kbps	1.74Mbps
swt-s	In	912.63kbps	1.28Mbps	3.66Mbps
forty	Out	428.86kbps	616.79kbps	1.74Mbps

<https://librenms.gridpp.rl.ac.uk/ifttype/type=LHCONE>

Total Graph for ports of type : LHCONE



Bits/sec		Now	Avg	Max
t1er1	In	21.78 bps	25.77 bps	29.42 bps
Vlan3	Out	26.69 bps	27.36 bps	31.42 bps
t1er2	In	3.70Gbps	15.24Gbps	64.44Gbps
Vlan3	Out	3.37Gbps	7.97Gbps	32.43Gbps



Bits/sec		Now	Avg	Max
t1er1	In	24.47 bps	25.74 bps	27.04 bps
Vlan3	Out	26.92 bps	27.31 bps	28.55 bps
t1er2	In	7.26Gbps	7.68Gbps	34.05Gbps
Vlan3	Out	2.48Gbps	12.14Gbps	43.14Gbps



Bits/sec		Now	Avg	Max
t1er1	In	26.22 bps	25.76 bps	26.22 bps
Vlan3	Out	27.78 bps	27.32 bps	27.86 bps
t1er2	In	22.82Gbps	7.47Gbps	29.27Gbps
Vlan3	Out	5.04Gbps	11.85Gbps	40.17Gbps

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

GGUS Tickets: 165969

Downtimes:

SAM Status:	100%	80%	100%	100%	95%	99%	100%	100%	100%	97%	100%	99%	100%	100%	100%	97%
Hammer Cloud:	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
FTS Status:	100%	0%	100%	0%	0%	100%	100%	92%	0%	100%	0%	0%	100%	0%	100%	100%

Site Readiness:	100%	80%	88%	27%	55%	99%	100%	91%	100%	96%	100%	94%	100%	99%	97%	97%
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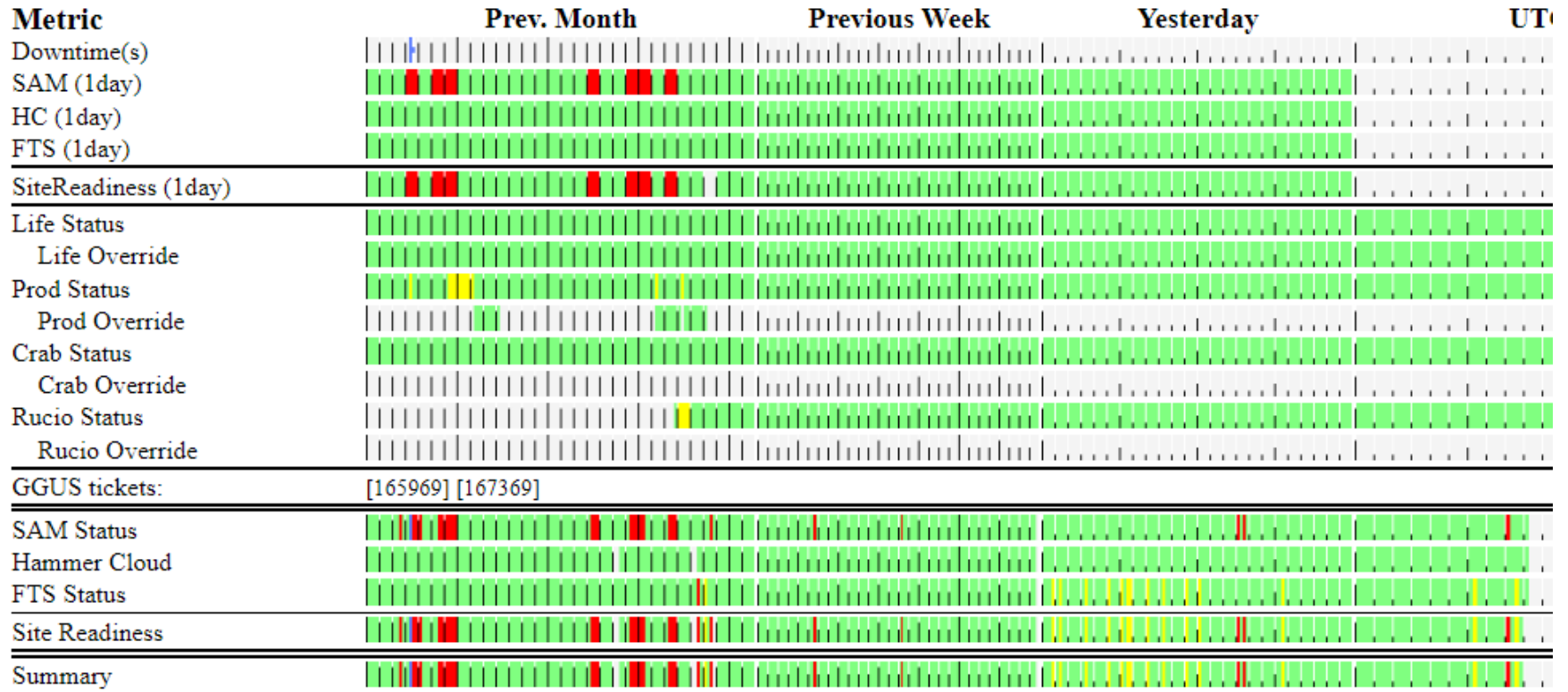
Life Status:

Prod Status:

CRAB Status:

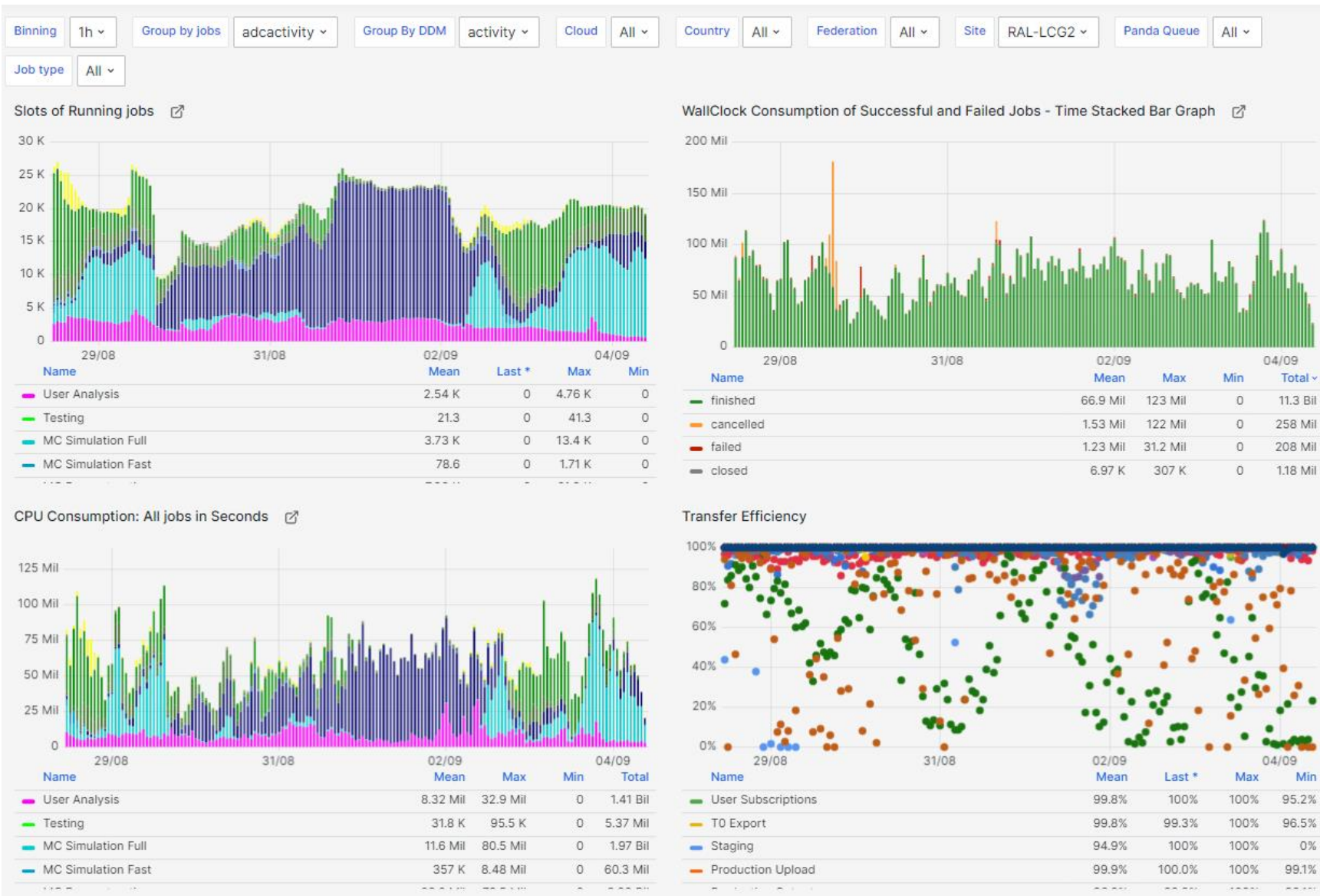
19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4
Aug													Sep			

<https://cmsst.web.cern.ch/siteStatus/detail.html?site=T1 UK RAL>



ATLAS:

<https://hammercloud.cern.ch/hc/app/atlas/siteoverview/?site=RAL-LCG2&startTime=2024-07-17&endTime=2024-07-24&templateType=isGolden>



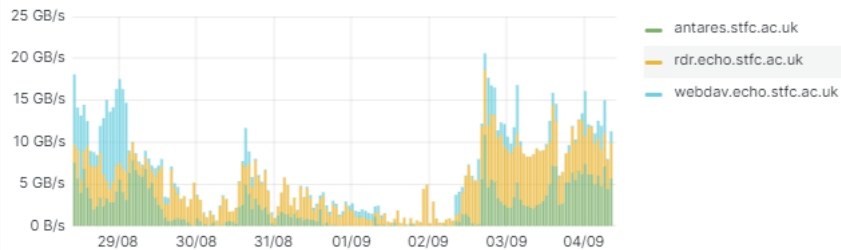
Transfer Rates

<https://tinyurl.com/RAL-Ingest-FTS>

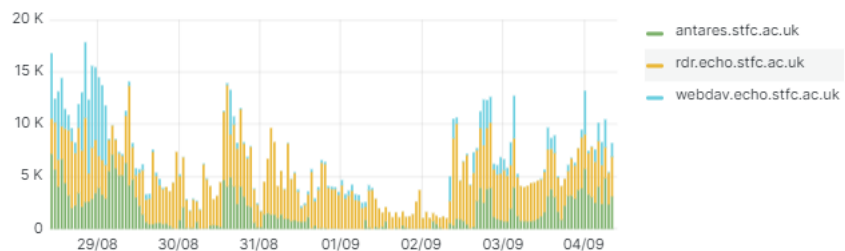
Efficiency



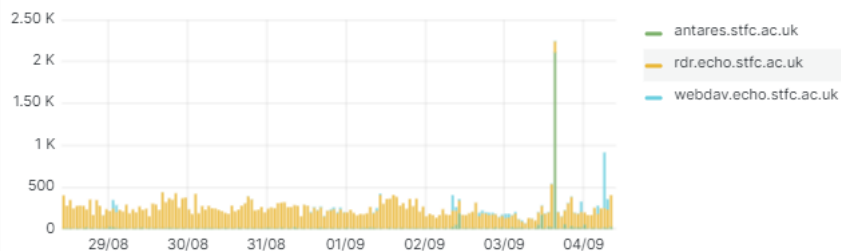
Transfer Throughput



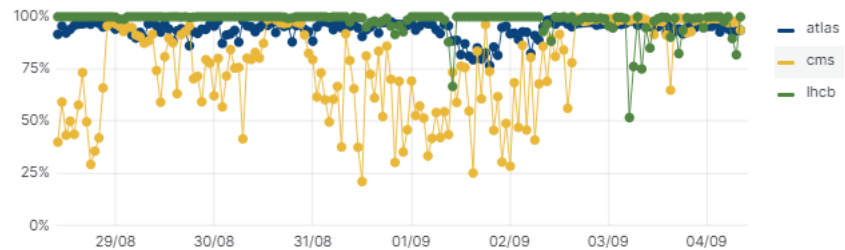
Transfer Successes



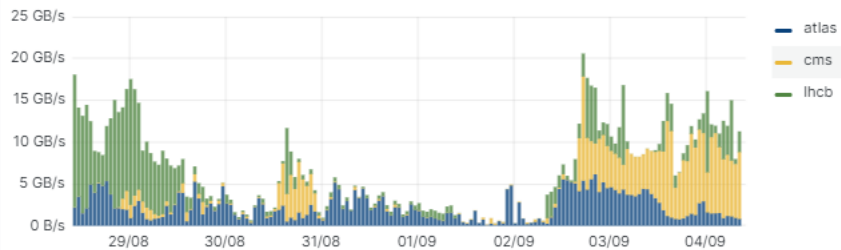
Transfer Failures



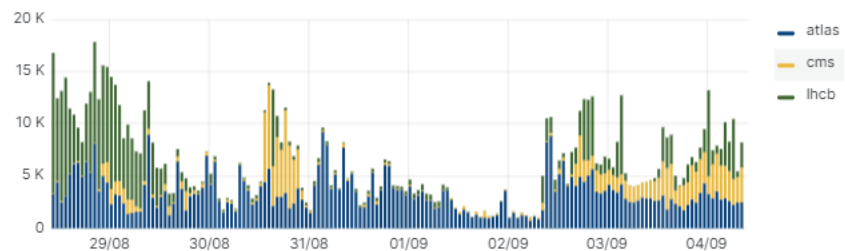
Efficiency



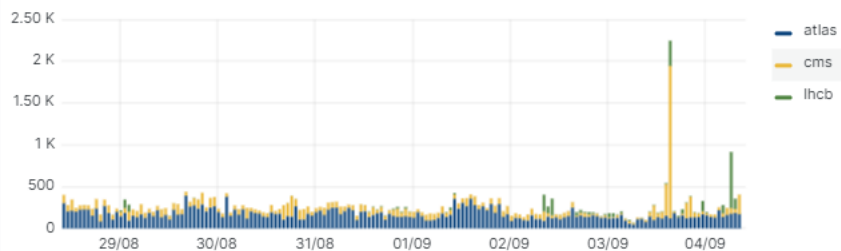
Transfer Throughput



Transfer Successes

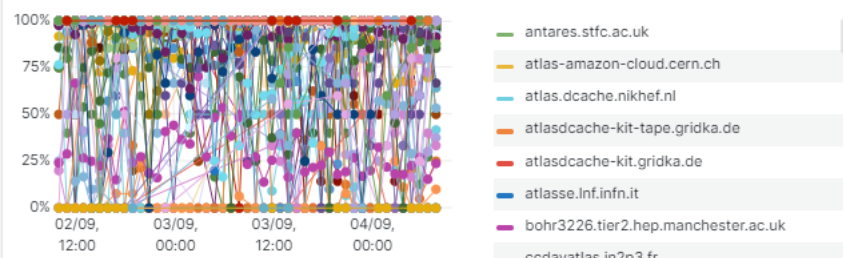


Transfer Failures

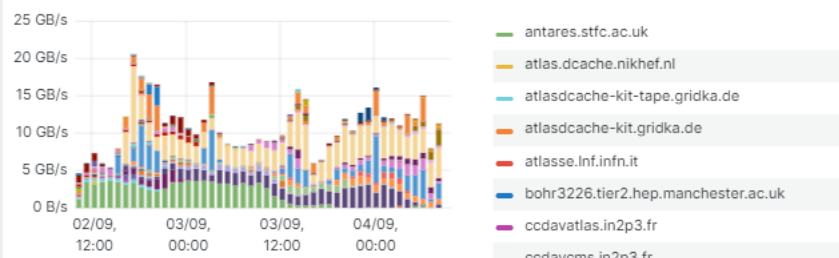


Source success CERN, echo and Antares , source failures dominated from AGLT2 for ATLAS

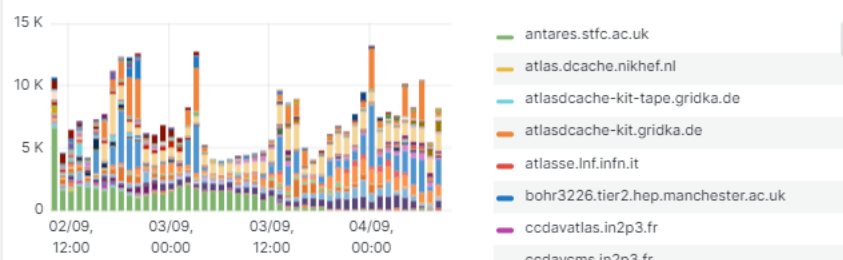
Efficiency



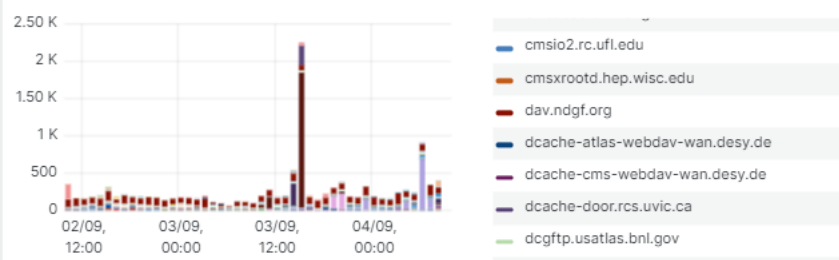
Transfer Throughput



Transfer Successes



Transfer Failures



Source	Destination	VO	Submitted	Active	Staging	S.Active	Archiving	Finished	Failed	Cancel	Rate (last 1h)	Thr.
+ davs://webdav.aglt2.org	davs://gftp01.ncg.ingrid.pt	atlas	2	-	-	-	-	-	3810	-	0.00 %	-
+ davs://webdav.aglt2.org	davs://rdr.echo.stfc.ac.uk	atlas	-	1	-	-	-	147	551	-	21.06 %	0.26 MiB/s
+ davs://webdav.aglt2.org	davs://grid-dav.rzg.mpg.de	atlas	-	1	-	-	-	54	74	-	42.19 %	0.72 MiB/s
+ davs://webdav.aglt2.org	davs://eos.grif.fr	atlas	-	-	-	-	-	146	48	-	75.26 %	-
+ davs://webdav.aglt2.org	davs://cceos.ihep.ac.cn	atlas	-	-	-	-	-	47	27	-	63.51 %	0.00 MiB/s
+ davs://webdav.aglt2.org	davs://sampaos.if.usp.br	atlas	-	-	-	-	-	68	25	-	73.12 %	-
+ davs://webdav.aglt2.org	davs://ccdavatlas-tape.in2p3.fr	atlas	-	-	-	-	-	-	22	-	0.00 %	-
+ davs://webdav.aglt2.org	davs://bohr3226.tier2.hep.manchester.ac.uk	atlas	-	-	-	-	-	71	13	-	84.52 %	0.01 MiB/s
+ davs://webdav.aglt2.org	davs://gridftp.atlas-swt2.org	atlas	-	-	-	-	-	24	13	-	64.86 %	-
+ davs://webdav.aglt2.org	davs://lcr-lrz-http.grid.lrz.de	atlas	-	2	-	-	-	357	5	-	98.62 %	34.92 MiB/s
+ davs://webdav.aglt2.org	davs://dcache-atlas-webdav-wan.desy.de	atlas	-	-	-	-	-	82	3	-	96.47 %	-
+ davs://webdav.aglt2.org	davs://se1.farm.particle.cz	atlas	-	-	-	-	-	321	1	-	99.69 %	17.95 MiB/s
+ davs://webdav.aglt2.org	davs://eosatlas.cern.ch	atlas	-	-	-	-	-	1271	-	-	100.00 %	11.90 MiB/s

""Parameters: nostreams:1,timeout:1080,bufferize:0

Finished time: 2024-09-04T03:59:05Z

Error reason: TRANSFER [5] TRANSFER ERROR: Copy failed (3rd pull). Last attempt: Transfer failure: Internal transfer failure, local=/atlas:datadisk/rucio/mc16_pPb8TeV/0f/34/RDO.40003500._015316.pool.root.1, remote=https://webdav.aglt2.org:2880/atlasdatadisk/rucio/mc16_pPb8TeV/0f/34/RDO.40003500._015316.pool.root.1?<redacted>, HTTP library failure=Timeout was reached

Log file:

https://fts-atlas-008.cern.ch:8449/var/log/fts3/transfers/2024-09-04/webdav.aglt2.org__rdr.echo.stfc.ac.uk/2024-09-04-0359__webdav.aglt2.org__rdr.echo.stfc.ac.uk__6874340856__8b7fe330-6a71-11ef-a3b6-fa163e9a529a

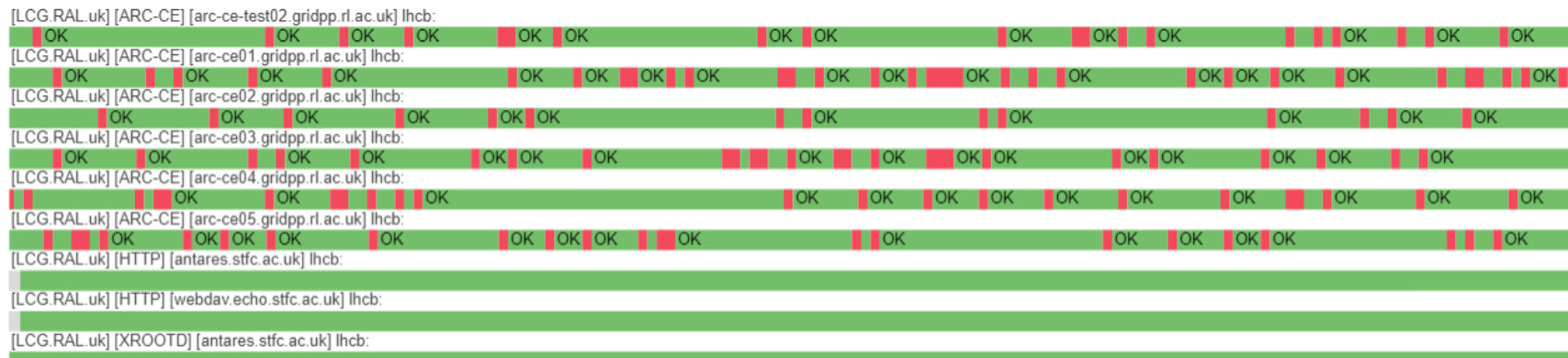
File metadata:{"request_id": "4dbe45b6372e487ba642470636800fe1", "scope": "mc16_pPb8TeV", "name":

"RDO.40003500._015316.pool.root.1", "activity": "Data Consolidation", "request_type": "TRANSFER", "src_type": "DISK", "dst_type": "DISK", "src_rse": "AGLT2_DATADISK", "dst_rse": "RAL-LCG2-ECHO_DATADISK", "src_rse_id": "2b82ed2dd2ca4210a4e4b19a6adaccd9", "dest_rse_id": "c6dcf68ddec041d583a1f009a9077473", "filesize": 251463008, "md5": null, "adler32": "73186d0d"}

""

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

Endpoint Status



Jobs:

Transfers to RAL:

Transfers from RAL:

ALICE

<https://tinyurl.com/aliceRALstorage>

Disk storage elements

RAL																							
AllEn SE			Catalogue statistics					Storage-provided information						Functional tests				Last day add tests		Demotion	IPv6		
SE Name	AllEn name	Tier	Size	Used	Free	Usage	No. of files	Type	Size	Used	Free	Usage	Version	EOS Version	add	get	rm	3rd	Last OK add	Successful	Failed	factor	add
1. RAL - CEPH	ALICE::RAL::CEPH	1	1.822 PB	1014 TB	851.6 TB	54.36%	12,864,295	CEPH	2 PB	0	2 PB	-	xrootd v3.6.9					04.09.2024 11:10	24	0	0	0	
2. RAL - CEPH_Test	ALICE::RAL::CEPH_Test	1	10 MB	3 B	10 MB	0%	1	CEPH	-	-	-	-			Test...	Test...	Last...	Test...	22.07.2024 09:32	0	24	100%	Test...
Total			1.822 PB	1014 TB	851.6 TB		12,864,296		2 PB	0	2 PB				1	1	1	1					1

What is this about?

Custodial storage elements

RAL																							
AllEn SE			Catalogue statistics					Storage-provided information						Functional tests				Last day add tests		Demotion	IPv6		
SE Name	AllEn name	Tier	Size	Used	Free	Usage	No. of files	Type	Size	Used	Free	Usage	Version	EOS Version	add	get	rm	3rd	Last OK add	Successful	Failed	factor	add
1. RAL - CTA	ALICE::RAL::CTA	1	1.841 PB	1.535 PB	313.2 TB	83.39%	665,348	TAPE	-	-	-	-							04.09.2024 10:55	24	0	0	Test...
2. RAL - CTA_TEST	ALICE::RAL::CTA_TEST	1	1000 GB	0	1000 GB	-	0	TAPE	-	-	-	-							04.09.2024 10:58	24	0	0	Test...
Total			1.842 PB	1.535 PB	314.1 TB		665,348		0	0	0				2	2	2	2					0