GridPP Ops 21/12/21

Attending: Matt, Vip, Mike L, SamS, Emanuele, Gerard H, StevenS, PatrickS, RobC, JamesW, Wenlong, DavidC, BrianD, Jose, Darren,WinnieL

Apologies: Gordon, Daniela, Duncan, Raul

Action from previous meetings.

20210323-01 - All.
Wiki table to track progress:
https://www.gridpp.ac.uk/wiki/Perf2021sonar_Cert_Status
To get a UK CA certificate with SubjectAltNames see the documentation at:
https://www.gridpp.ac.uk/wiki/SubjectAltName
Action taken "offline" with some pokes to Imperial, Liverpool, Sheffield, Durham and Sussex.

20210907-01 - David C- put forward a person to be the site security threat intelligence contact.
Last act will be to get the Site Contacts round a virtual table, this has been pushed to this year.
-Will be a Technical Meeting. [ACTION DC]

VO Updates

CMS (Daniela is at the dentist, sorry):

I know Matt is going to have a ticket review, but:
CMS still bitter that Simon F won't let them monitor his squid:
https://ggus.eu/?mode=ticket_info&ticket_id=155485
(Raul is looking into it.)

The "missing load test file" saga
(https://ggus.eu/index.php?mode=ticket_info&ticket_id=155403)
Summary: There is a load test file missing at Brunel. No-one in CMS seems to be able to cope with the issue where a file is in a database, but not actually on disk. Because that never happens.)
has now reached the stage of inter-CMS recriminations:
https://ggus.eu/index.php?mode=ticket_info&ticket_id=155455

Overall it looks like a large number of CMS infrastructure people are not quite back from holiday yet and progress is slow.

https://monit-grafana.cern.ch/d/m7XtZsEZk4/wlcg-sitemon-historical-tests?orgId=20&var-vo=cms&var-dst_tier=2&var-dst_country=UK&var-dst_federation=All&var-dst_experiment_site=All&var-service_flavour=All&var-dst_hostname=All&var-metric=All&var-status=All

The Brunel errors in the link above are covered by tickets and Bristol's webdav is still work in progress (though progress there is).

ATLAS (James):

- Generally quiet Holiday period for T2s (at least from an external perspective!)
    - Lancs: Power issues around Christmas; quickly resolved.
    - ECDF; some issues with a storage node; awaiting a prognosis from site
    - Durham; also some power glitch
    - Brunel; some remaining tasks from previous hardware failure (e.g. hammercloud test files), etc.
- RAL:
    - CRL errors around New Year
    - Built up a large backlog of FTS transfers, leading to compute job failures (data trying to get to final destination).
        - Manual mitigation, to reduce backlog
    - New alias and gateway nodes configured for davs optimisation testing
        - (currently has problems with ipv4-only sites)
        - FTS optimisation also helped
        - Did sustain 4-6 GB/s reads out of Echo via davs (RAL total atlas throughput) (the GB is correct)
    - Castor downtime announced for Weds-Fri
    - Running below pledge (partly from fts transfer issues and high activity of other VOs)

LHCb: (MS: Apologies - another meeting is overrunning! Will add below what I know)

RAL:

- Non negligible failed uploads from RAL to RAL-BUFFER
  https://ggus.eu/?mode=ticket_info&ticket_id=155235 Ticket can be closed

- Investigating Echo deletion problems
  (https://ggus.eu/?mode=ticket_info&ticket_id=155120) - any updates (last was
  December)?
- Data transfer problem (https://ggus.eu/index.php?mode=ticket_info&ticket_id=154411) -
  Ticket can be closed
- Ticket opened due to lost file (https://ggus.eu/?mode=ticket_info&ticket_id=154254) -
  any updates (last was November)?

Thanks Mark! Sam notes that these are also noted in the PMB.

Pete C notes that there will be a meeting between LHCB, PMB and Tier 1 reps in the
near future to discuss the issues.

"Other" VOs:

DUNE (Wenlong):

glideInWMS configuration for the different sites :
http://gfactory-2.opensciencegrid.org/factory/monitor/factoryEntryStatusNow.html

SAM tests :
https://etf-dune-preprod.cern.ch/etf/check_mk/
--- Now also testing for the stash cache
--- following up with the sites
--- Monit link for history : Shows historical timeline of tests now
--- CRIC information ready. Using it for ETF tests now.
DUNE site naming agreed: UK-Sitename format.
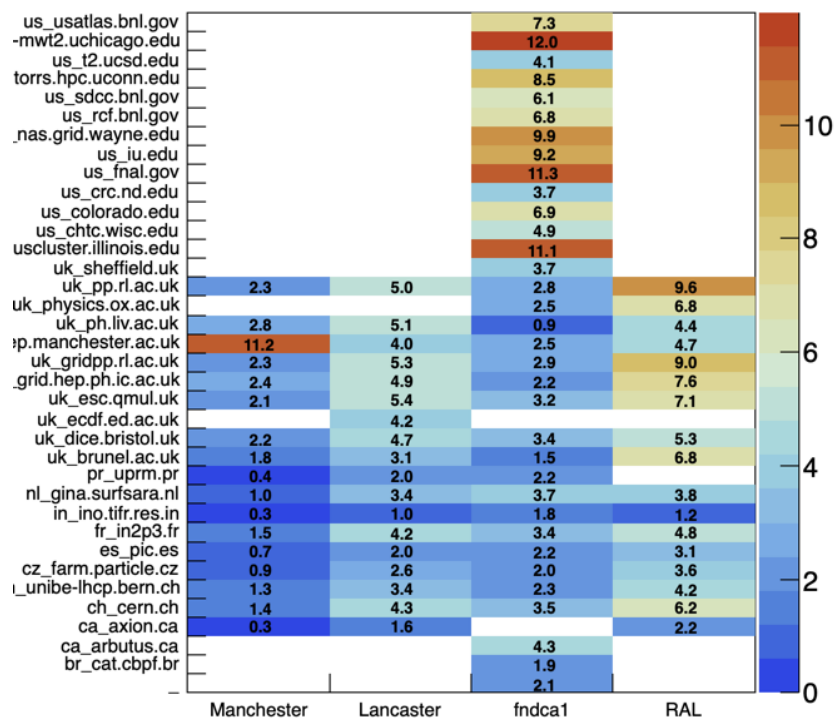--- https://dune-cric.cern.ch/core/experimentsite/list/
Wenlong is the DUNE UK data manager

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

Job testing disk access from the UK during last weeks, maybe seeing increased network traffic.
Feedbacks are welcome.

rate for consumed, MB/s dune_fast_2022_01_04_2022_01_07_0

	Manchester	Lancaster	fndca1	RAL
us_usatlas.bnl.gov			7.3	
-mwt2.uchicago.edu			12.0	
us_t2.ucsd.edu			4.1	
torrs.hpc.uconn.edu			8.5	
us_sdcc.bnl.gov			6.1	
us_rcf.bnl.gov			6.8	
nas.grid.wayne.edu			9.9	
us_iu.edu			9.2	
us_fnal.gov			11.3	
us_crc.nd.edu			3.7	
us_colorado.edu			6.9	
us_chtc.wisc.edu			4.9	
uscluster.illinois.edu			11.1	
uk_sheffield.uk			3.7	
uk_pp.rl.ac.uk	2.3	5.0	2.8	9.6
uk_physics.ox.ac.uk			2.5	6.8
uk_ph.liv.ac.uk	2.8	5.1	0.9	4.4
ep.manchester.ac.uk	11.2	4.0	2.5	4.7
uk_gridpp.rl.ac.uk	2.3	5.3	2.9	9.0
grid.hep.ph.ic.ac.uk	2.4	4.9	2.2	7.6
uk_esc.qmul.uk	2.1	5.4	3.2	7.1
uk_ecdf.ed.ac.uk		4.2		
uk_dice.bristol.uk	2.2	4.7	3.4	5.3
uk_brunel.ac.uk	1.8	3.1	1.5	6.8
pr_uprm.pr	0.4	2.0	2.2	
nl_gina.surfsara.nl	1.0	3.4	3.7	3.8
in_ino.tifr.res.in	0.3	1.0	1.8	1.2
fr_in2p3.fr	1.5	4.2	3.4	4.8
es_pic.es	0.7	2.0	2.2	3.1
cz_farm.particle.cz	0.9	2.6	2.0	3.6
unibe-lhcp.bern.ch	1.3	3.4	2.3	4.2
ch_cern.ch	1.4	4.3	3.5	6.2
ca_axion.ca	0.3	1.6		2.2
ca_arbutus.ca			4.3	
br_cat.cbpf.br			1.9	
			2.1	

(numbers are streaming from remote).
Low job efficiency observed in UK sites, NO stashcache redirector in the UK?
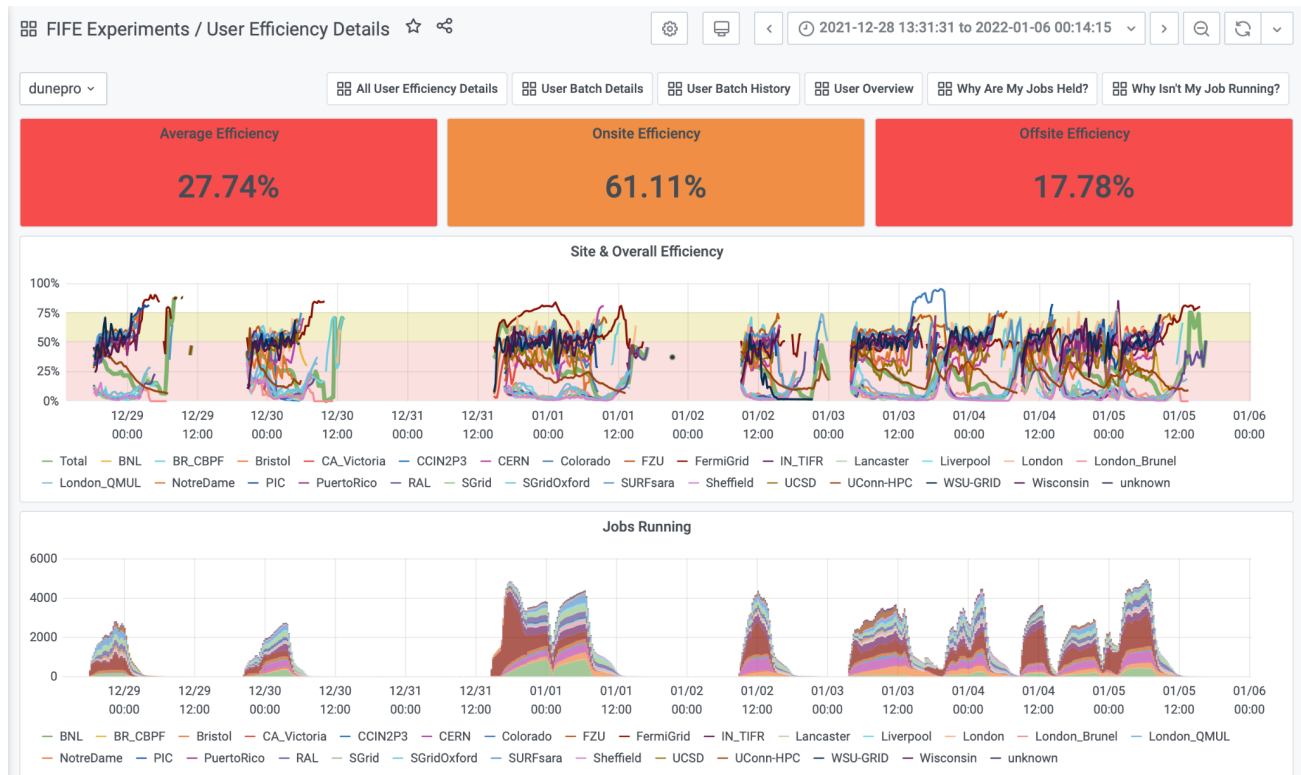
Sam asks what stashcache is used for - it is not entirely sure so need to ask Dune Ops. Wenlong will send a mail to ask.
If we do need to run one it will likely be host at RAL. Brian will take it back to Jose and Co.
Sam gives some background on stashcache - meant for large files over cvmfs.

Matt notes jobs didn't run at Lancaster- will look into it.

SKA:

NTR

LIGO:

Ligo (virgo) running again at the Tier 1

LSST:

NTR

Other "New" VO status:

NTR

General Updates/Discussion

Quiet start to the year.

Meeting Updates

GDB this week: https://indico.cern.ch/event/1096026/
It has the UK DPM Plan talk from Sam, and an Atlas "Analysis Facility" talk from Alessandra.

It would be useful for sites to send their 3 Analysis Facility status and plans, particularly anything happening at the Tier 3s. Would be good to have some in depth UK slides for Atlas S&C.
Chris B asks what do experiments want from an Analysis Facility? This too is a moving target.
Pete C - it's a "bigger laptop".

Tier 1 Status

This week RAL will be performing a major upgrade on the Tape Robotics behind Castor (and Antares). The downtime is from 07:00 UTC on Wednesday to 13:00 UTC on Friday ⧉ .

During this time, the Tape Robot will be expanded with additional frames, 16 x LTO-9 drives will be added along with ~20PB of media. Camera systems will also be installed to enable better remote debugging of future hardware problems. The actual hardware should finish installing on Wednesday and validation of that should happen overnight.

Currently the downtime declared is a slightly conservative best estimate however by Thursday morning, we should be in a very good position to inform VOs if the downtime will be changed. If all has gone well with the hardware upgrade we may be able to finish it early. We apologise for the relatively short notice, it has been very difficult to schedule the delivery of the hardware this year and we felt that getting the upgrade done as soon as possible was the best way of minimising impact on the VOs.

New webdav Alias to echo added to gocdb with (for the time being) dedicated hardware. ATLAS are testing.

Aware of low jobs running for LHCb and ALICE . Investigating.

Tier-1 Network upgrade (latest update on top)

(08-11-21)

Moving a batch of WNs to new network.

-Jose notes that in preparation these nodes will be drained, there will be a small reduction in capacity over the weekend.

Adding new Storage Nodes for Echo into the new network

Plan to Join LHCONE 1st/2nd Week December

Internal changes to current network needed for this ongoing 10/11/21 17/11/21 22/11/21

(25-10-21) New WN transition to the new network due soon- this week or next (we think).

(12-10-21) New network online, but no hosts on it yet. Working in progress. New worker nodes and storage will be put on it. Part of work is making the migrations easier.

(24-08-21) Connections and configuration of new RAL Tier1 network ongoing. Connections and configuration of Antares network ongoing.

 RAL Campus network upgrades complete which should allow for extra capacity , better diagnostics , and increase in IPv6 bandwidth to be planned.

Progress (but not complete_ configuration of new perfSONAR hosts).

Joining the LHCONE is part of the larger Tier-1 Network upgrade that we are doing. The upgrade plan was presented at the technical meeting on January 29th[1] and it remains on schedule. The next update is scheduled at the LHCOPN-LHCONE meeting on the 23rd March[2]. Access to the machine room is expected to be allowed this week. The cabling for the Tier-1 network is expected to be completed between the 16th and 19th March. The CTA network is currently being configured.

[1]https://indico.cern.ch/event/996031/contributions/4185620/attachments/2180652/3683446/Tier1Network20210129.pdf

[2] https://indico.cern.ch/event/983436/

Brian- internal testing of CTA progressing

Security Brief
-   Operational update [standing item]
-   Post-break update
-   Setting agenda for 2022

For our bookmarks: https://csirt.egi.eu/news/

AAI

  - https://twiki.cern.ch/twiki/bin/view/LCG/ResourceTrustEvolution

In particular, if you would like to join the discussion the egroup is:

    - wlcg-resource-trust-evolution

First meeting was very good. It's still not too late to join in!

Networking News

UK Mesh:
https://psmad.opensciencegrid.org/maddash-webui/index.cgi?dashboard=UK%20Mesh%20Config

Check_MK monitoring:
https://psetf.opensciencegrid.org/etf/check_mk/index.py?start_url=%2Fetf%2Fcheck_mk%2Fview.py%3Fhostgroup%3DUK%26opthost_group%3DUK%26view_name%3Dhostgroup

https://www.gridpp.ac.uk/wiki/Perfsonar_refresh

Dune Mesh:
https://psmad.opensciencegrid.org/maddash-webui/index.cgi?dashboard=DUNE%20Mesh%20Config

Lots of grey on the mesh, can sites please take a look and give their perfsonar a kick if needed.

Vip and Mike will kick the Oxford Perfsonar.

Storage and Data Management News

Minutes: GridPP Storage
Reminder: Storage Meeting is now @ 1030 [not 10am] to make it slightly easier for everyone to attend.

GDB presentation finished off in Last Week's meeting. (We'll look at it quickly again tomorrow in the First Storage Group meeting of the year.)

I noticed a number of storage-related email chains over the hols, but I think mostly covered by James in the ATLAS section.

Technical Update

(to include any Token News, Data Challenge work, "New" OS experiences)
NTR

Duty Report

NTR

Tickets

[UK GGUS tickets](#)
37 Tickets, here's a quick look at all of them to kick off the year:
https://docs.google.com/document/d/1mebH7fl9145N71wy4AQ6CJIhz9N4suUJvm-OYF4I4Vc/edit?usp=sharing

Site News

NTR

AOB/Feedback for/from the PMB

PeppoSub == Emmanuelle

Actions/Decisions from This Meeting

Soft action to ask Dune about the stashcache needs, and a reminder for sites to poll their "Atlas Analysis Facility" plans".

Chat Window:

11:13:58 From Alessandra Forti To Everyone:
   Hardware was never the problem 🙂

11:34:57 From Chris Brew - STFC UKRI To Everyone:

    I thought I'd replied but cannot see it in my sent mail, I'll see if I can find it.

11:48:10 From Chris Brew - STFC UKRI To Everyone:

    I'm going for reinstall!