GridPP Ops 12/3/24

Attending: Matt, Daniela, Tony, Dwayne, Steven S, Mark S, Rob Fa, Raul, Sam S, Pete C, Alex R (late), Dan T, Dimitrios T, Alessandra F, Dan W, Daniela B, Jyoti B, Linda, Tim C, Thomas B, Emanuele, Robert Fr

Apologies: Duncan, Darren, Brian, Gordon, David C, Rob C

Urgent Business

None

Actions from previous meetings.

270224-01 - Matt, start ARC documentation page in confluence.
  -Made an absolute minimum start: https://gridpp.atlassian.net/wiki/x/BADeAQ

Some (expected) conversations on confluence vs wiki.
PC - useful to gauge opinions and thoughts on confluence.
Also we now have two front pages- need to, if we use it, remove the placeholder and mark it as a wiki for admins.
talk of pros and cons of confluence.
-note to discuss in PMB.
-please feed to Sam any opinions.
How can we get an account approved?

270224-02 - Sam, Matt - liaise with Alastair over future tech meeting subjects.

General Updates/Discussion

GRIDPP51/SWIFT-HEP JOINT COLLAB MEETING - 26th to 27th MARCH, SHEFFIELD. (25th for PMB)
Let Sam and Jill know if you need to change stuff.
https://indico.cern.ch/event/1366954/

Jose removed some unused regional VO cvmfs repos:
- londongrid.gridpp.ac.uk
- southgrid.gridpp.ac.uk

- scotgrid.gridpp.ac.uk

Any objections? Jose can restore if needed.

VO Updates

ATLAS (Jyoti):
- General news:
  - Post-DC24:
    - Running tests between CERN and T1s - should not interfere with datataking if done carefully.
    - T0 export by default has higher priority than the tests.
    - To test the T1s one by one for two weeks and all of them together last week.
    - GGUS tickets will be created for communication with T1s and an announcement e-mail will be sent out. Sites included: BNL, RAL, IN2P3, FZK, CNAF, NDGF.
    - "T0 export tests" email on 08 March:
      - Mon, 11th: IN2P3; Tue, 12th: FZK; Wed, 13th: RAL; Thu, 14th: BNL; Fri, 15th: CNAF; Mon, 18th: NDGF. [~6 hours per site]
      - A final test with all the T1s together --> Tue, 19th.
    - T1 written reports on DC24: sites should submit the reports to DOMA. The deadline is 26 April 2024.
  - Today @11:00 hrs CET, EOSATLAS upgrade to new software release – OTG0148953.
  - On 19 March @09:00-10:00 hrs, upgrade of fts3-atlas.cern.ch database – OTG0149009.
  - Switcher3 ALMA9 migration, new updates: CSOPS-2204.
  - ARM @CERN:
    - 30 cores - available under the CERN-ARM.
      - Testing to move the Panda Queue to CentralB Harvester.
      - A total of 1k cores to come imminently.

- Tier-1:
  - GGUS-165475
    - RAL-LCG2: 0% efficiency in deletions; **solved**.

- A new load balancer algorithm was applied on 04 March; the backlog got cleared on 05 March.
- The problem was solved with the closure of the ticket on 06 March.
    - [GGUS-165529](#)
        - T0-T1 test repetition (RAL-LCG2); **in progress**.
        - The RAL date is different here – 18th (like several others)! These dates might be more accurate, as the GGUS tickets were created after the email was sent.
        - This is concerning the post-DC24 tests (please see the 'Post-DC24' sub-section under "General news" above).
            - Discussions ongoing to split the test across Echo and Antares (in order to make sure Antares set up an appropriate test tape pool to write the data to and then delete later.)
            - There is a question if we need to create a dedicated tape pool for this.
            - Questions to RAL:
                - The test will keep on rewriting the same files - usually on disk they are deleted. What happens if we delete a file and rewrite it after? Is there any intelligence that will prevent this from happening (and reuse the old one already present) or is rewrite on tape allowed?
                - Do we need a different path? The [test RSE](#) exists and can be adapted.
    - Tape family setup for 2024:
        - data24_13p6TeV; data24_900GeV; data24_hi; data24_cos; data24_comm --> the first should see a significant amount of data.
        - There will be no simulation mc24 scopes, this will go with the already existing mc23 scopes.
        - Antares is aware of it.

- Tier-2s:
    - Both LANCS and DURHAM have been experiencing HammerCloud failures since 08 March.
        - Ceph issue, the load on XRootD servers shot up.
        - Almost all traffic is external.
        - Under investigation:
            - FTS limits are not reset after DC24 testing.
            - Impact of recent DATADISK trimming (by 250 PB).
        - Jobless periods at LANCS.

- - - Stable periods → sheer luck!
    - Plans @LANCS – (1) a replacement disk to go in, and work on one of the racks so they can put online a new metadata server with more RAM, (2) a PB of disk for non-ATLAS to go in that should relieve space.
    - Lots of prep work, it will be a few weeks before any benefit is likely.
    - DURHAM is more stable than LANCS.
  - [GGUS-163552](#)
    - Timeouts in transfers as a destination and in deletions at UKI-SCOTGRID-GLASGOW; **solved**.
    - The latest update from 08 March shows that deletion efficiency and destination transfers have recovered nicely.
    - The problem seemed solved on 12 March, and the ticket was closed on the same day almost after five months!
  - Lost data @DURHAM -- rebuilding storage elements [[ATLDDMOPS-5680](#)].
    - No new updates since 20 Feb.
    - The Pheno users are delaying the plan of shutdown, and everything else that follows after.
  - HammerCloud failures @LIV (last week):
    - dCache issue with a few of LIV ATLAS pools was going into a disabled state.
    - These pools were on a ZFS file system, and it was found they needed to move the metadata to a separate ZFS file system which had sync configured to flush every write.
    - The dCache processes were restarted on that file server to bring the pools back online, so the errors should clear up. => The situation @LIV indeed improved afterwards.

CMS (Daniela):

No news.
Imperial still has a CMS tickets wrt accounting, but unless APEL actually does something about these tickets, there's not much we can do:
https://ggus.eu/?mode=ticket_info&ticket_id=165483
https://ggus.eu/?mode=ticket_info&ticket_id=165522
We found that condor seems to be reporting cpu time (but not wall time) differently after the latest upgrade, but it is not clear if that is related to the above ticket, as I assume that "elapsed time" refers to walltime, but what do I know.
CMS can also not get someone to look at their failing ETF tests (tokens for ARCs):
https://ggus.eu/index.php?mode=ticket_info&ticket_id=165493

I sometimes feel embarrassed reporting on all of this.

LHCb (Alexander):

RAL T1:
- Problems with file uploads from RAL WNs to ECHO last Saturday
    - One gateway stopped authenticating users
- Vector read optimisation (follow-up on GGUS ticket)
    - No updates
- Token setup
    - No updates
- Long-lasting issues
    - Slow "stat" calls
        - Patched xrootd version was deployed yesterday, checksum performance looks OK after that, requested confirmation from LHCB

T2:
- Jobs are failing at Sheffield
    - New pilot version was deployed yesterday, it should have better timeleft mechanism
- ETF tests are failing for Lancaster
    - Still waiting for a few sites to fix their SEs to allow storage tests from the new tests suite to pass
- Preprod ETF tests are failing for Glasgow
    - Looks like permission problem
    - Ticket needs reaction
- Failed pilots at Bristol
    - There were some failures in the end of last week
    - Ticket is still in the "assigned" state, needs reaction
- Pilot submission problem at Manchester
    - Problem is still present
- Failed pilots at ECDF
    - Ticket needs reaction
- Some files are inaccessible at Manchester
    - DFC dump is ready, storage dump needed
        - Storage dump provided today

DUNE (Wenlong):

Links: glideInWMS configuration for the different sites

> [SAM tests](#)
> [Monit link for history](#)
> CRIC: https://dune-cric.cern.ch/core/experimentsite/list/
> [Storage monitoring site](#)
> [Job efficiency monitoring site](#)
> [DUNE job status](#)
- Workflow (JustIN) tests url:
  https://justin.dune.hep.ac.uk/dashboard/?method=awt-results

- Manchester
    - Rucio reaper failed: https://ggus.eu/?mode=ticket_info&ticket_id=165562
    - Dump list file: https://ggus.eu/index.php?mode=ticket_info&ticket_id=165497

Other VOs:

Tokens: We are now rolling out pilot job tokens for all VOs supported on the GridPP DIRAC server.
Please find the configuration info here:
https://www.gridpp.ac.uk/wiki/Dirac_GridPP_DIRAC_Tokens
I made it a Wiki, so if someone has some words of wisdom on particular quirks of the CE configurations, please add them here.
Done: Oxford, RHUL, Birmingham, Imperial, Glasgow, CERN (NA62), QMUL, Lancaster, RALPP
CERN dragging their heels on providing an IAM server for Moedal:
https://cern.service-now.com/service-portal?id=ticket&table=u_request_fulfillment&n=RQF2470783
Tier 1 now also ticketed, but no ETA yet.
Testing Manchester.

LSST/DESC - there's a request from a member of the Dark Energy Science Collaboration to have access to UK Grid resources. The user is from Argonne Lab, but providing of compute resource is part of the UK in-kind contributions to the project,
Some discussion of how best to do this (DIRAC vs Glide-in WMS), but the user will use the LSST VO.

Quick straw poll - a few sites still support the LSST VO. (Imperial, QMUL, Liverpool, and RAL and Lancaster).

Meeting Updates

ISGC: https://indico4.twgrid.org/event/25/

WLCG Workshop in May 13-17 in Hamburg (DESY) WLCG/HSF Workshop 2024 (13-17 May 2024): Overview · Indico (cern.ch)

The next IRIS Collaboration meeting has been scheduled for June 3 & 4 at Imperial College.

HEPiX in Paris, 15th-19th of April: https://indico.cern.ch/event/1377701
LHCONE OPN 9th-11th April
https://wiki.geant.org/display/SIGNGN/14th+SIG-NGN+Meeting

Missed from the meeting and added after the fact:
WLCG Ops Coordination: https://twiki.cern.ch/twiki/bin/view/LCG/WLCGOpsMinutes240307
Note talk on migration from voms to IAM.

EGI Ops: https://confluence.egi.eu/display/EGIBG/2024-03-11+notes

Tier 1 Status

Preproduction CEs on Rocky8, moving forward to upgrading CEs in next few weeks.
Moving away from ARGUS, (native ARC auth and mapping).
Working on native IPv6 routing for the containers.

Security Brief

Advisories: https://advisories.egi.eu

- Operational update [standing item]
- SOC Hackathon: https://indico.cern.ch/event/1370544/
- DRI Cybersecurity Workshop (23rd and 24th of April)
- Migration from EL7

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"
Auth Working Group Twiki: https://twiki.cern.ch/twiki/bin/view/LCG/WLCGAuthorizationWG
Indico Category: https://indico.cern.ch/category/68/
Mailing list egroup: project-lcg-authz

Note - AuthZ meetings moved to fortnightly Thursdays

GUT meeting this Thursday.

Networking News

[UK Mesh](#)
[Check_MK monitoring](#)
[Dune Mesh](#)
[perfSONAR certificate status](#)
[perfSONAR issues](#) (the newer doc)

5.1 beta is going to be tested by Raul, this will bring grafana integration.
Glasgow not publishing outgoing tests, IPV6 ACLs need looking at (so does Sussex).
ECDF not publishing.
Will host new dashboard at Jisc when grafana-frontend widespread. Hosting it in the UK will bring clarity to dashboard issues.
Dan notes improved security settings for perfsonar that Raul came up with.
https://github.com/perfsonar/toolkit/issues/463

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.
https://uofglasgow.zoom.us/j/94094366747

I might need a backup host for this Wednesday's storage meeting [I might not be out of another thing in time to host properly].

Note the number of xroot versions rolling out - currently 5.6.9, 5.7.0 on its way.

IPv6 Everywhere

A call for v6 on all services is here:
https://indico.cern.ch/event/1341866/contributions/5649115/attachments/2744834/4775731/IPv6%20compute%20deployment%20ops%20coord.pdf

For our records: [Terry's v4/v6 translation work](#)
See network forward look.
HEPiX IPv6 WG call last Wednesday - https://indico.cern.ch/event/1352163/.

Next call is on 18 January.
Twiki for WN IPv6 status - https://twiki.cern.ch/twiki/bin/view/LCG/WlcgIpv6#IPv6Comp

Technical Update

Standing subjects:
-RHEL8/9 clone experiences:
Rob C is working on a wiki page listing rhel9 tweaks - very useful:
https://www.gridpp.ac.uk/wiki/RHEL9_systems

Also see Rob's work on ARC:
https://www.gridpp.ac.uk/wiki/ARC6_EL9

-HEPSCORE
https://www.gridpp.ac.uk/wiki/HEPSCORE_Site_Status
Alessandra has asked for the DN of one person from each site, in the format of the output of
`openssl x509 -noout -in user.crt.pem -subject -nameopt RFC2253`

Note that HEPSCORE is a moving target, dev continues on it.

-XRootD Shoveller Adoption/Other XRoot Monitoring
Can probably be dropped, and kept an eye on elsewhere.

Tickets/ROD

UK GGUS tickets

60 Open UK tickets.

The IPv6 deployment tickets seem to need a look at, most of them are On Hold but we don't want them forgotten about.

These old "Upgrade HTCondor tickets" seem like they need a kick too:
https://ggus.eu/index.php?mode=ticket_info&ticket_id=164018 (Bristol)
https://ggus.eu/index.php?mode=ticket_info&ticket_id=164017 (Liverpool)
https://ggus.eu/index.php?mode=ticket_info&ticket_id=164016 (RHUL)
https://ggus.eu/index.php?mode=ticket_info&ticket_id=164015 (IC - although this has some recent-ish updates and conversation).
-Batch system upgraded, but CE not (as don't want to have to roll own APEL hack).

Perfsonar ticket for RHUL that looks like it could be solved?

https://ggus.eu/index.php?mode=ticket_info&ticket_id=163650

On the ROD dashboard Bristol and Brunel's A/R figures are low.

News

PMB pleased with DC24.
-AF asks for figures from Tim to be sent to her.

There's an RNE call on Fri22nd at 2pm on Globus, Duncan will send the invite link to the list soon.

AOB/Feedback for/from the PMB

Actions/Decisions from This Meeting

No hard actions.

Chat Window:

11:05:42 From Alessandra Forti To Everyone:
    Are we forced to use this?
11:13:12 From Thomas Birkett - STFC UKRI To Everyone:
    2 pennies worth, the information in the Wiki is very useful. Moving to a newer platform won't invalidate the useful information. We should move that info to Confluence (or another??) and leave behind any out of date info
11:15:54 From Linda Cornwall - STFC UKRI To Everyone:
    I don't have strong feelings what the platform is. BUT we should NOT loose information. Whatever we choose we should keep the info (unless we think it's too old/no longer relevant), edit/update as appropriate.
11:17:42 From Alessandra Forti To Everyone:
    Just got you don't have permission
11:35:16 From Thomas Birkett - STFC UKRI To Everyone:
    Which Condor versions did you upgrade from and to?
11:40:24 From Daniela Bauer To Everyone:
    Apparently we went from 9 to 10 to 23 for our batch system in a short space of time, but haven't looked any further into when the change happened.
11:41:27 From Raul Lopes To Everyone:
    I had condor 10 on EL7. When I moved to EL9, condor came as 23.
11:45:05 From Daniel Traynor To Everyone:

yes
11:45:36 From Daniel Traynor To Everyone:
   to last jpbs
11:45:42 From Daniel Traynor To Everyone:
   LSST
11:45:52 From Rob Fay (Liverpool; he/him) To Everyone:
   I think Liverpool has lsst enabled as well
11:46:30 From Thomas Birkett - STFC UKRI To Everyone:
   RAL are working with Tim Noble to get LSST working
11:49:27 From Alessandra Forti To Everyone:
   I'm going to
11:49:33 From Alessandra Forti To Everyone:
   hamburg
11:49:48 From Daniela Bauer To Everyone:
   I met my other half in Hamburg, but the scheduling makes a trip down memory lane impossible ;-)
11:56:04 From Daniel Traynor To Everyone:
   Raul came up with some improved security settings for perfsoanr
11:56:53 From Daniel Traynor To Everyone:
   hopefully will be upstreamed
12:00:38 From Tim Chown To Everyone:
   https://github.com/perfsonar/toolkit/issues/463
12:02:37 From Tim Chown To Everyone:
   Multiple levels of resilience is good 🙂
12:11:22 From Tim Chown To Everyone:
   There's an RNE call on Fri22nd at 2pm on Globus , Duncan will send the invite link to the list soon.