GridPP Ops 7/03/23

Attending: Matt, Brian, Jose, Daniela, Steven S, Gordon, Emanuele, Gerard H, JamesW, Rob F, LindaC, Sam S , Mark S, Duncan, Tony, Wenlong, Dwayne, Alessandra F, RobC

Apologies: DavidC, Vip, Mike L, Alex R

Urgent Business

GridPP7 submitted!

Actions from previous meetings.

070223-01 All Sites - "Power Efficiency" Site Survey for GridPP7: Email Sam and Matt with PUE improvement "guesstimates" as detailed last week:
"
-(Brief) Words describing any recent (~5 years) efficiency gains made at the site, or any near future (~2 years) plans.
-The PUE (guesstimates will do) and HEPSPEC delivered before any improvements.
-The PUE (same caveat) and HEPSPEC delivered after any improvements [and the approx date of the change]
In the event that things have and will remain static at your site over this timeframe please just provide a statement to that fact and the PUE and HEPSPEC figures.
"
-reiterate, don't "overthink" it, some response is better than no response.

I think we will close off on this soon? We'd still like the numbers (especially for any GridPP7 review meetings). But we will de-action this.

I'm not entirely sure we did actionify this:
280223-01 All Sites. For publishing hepscore one person per site (the one running the benchmarking) to email Alessandra with the below information:
- Sitename
- Output of `openssl x509 -noout -in user.crt.pem -subject -nameopt RFC2253` for your personal cert.
- (maybe?) Subnet or IP you will be publishing from.

If you have already sent this information to the hepscore group it would still be good to keep us in the loop.
Tracked here: https://www.gridpp.ac.uk/wiki/HEPSCORE_Site_Status

VO Updates

ATLAS (James):

IGTF 1.118 release causing significant transfer failures across grid (for StoRM sites. E.g. QMUL, INFN), with updated UK eScience Root certificate
- https://ggus.eu/index.php?mode=ticket_info&ticket_id=160759
- (update from TB-support mail: Summary of issues with UK eScience Root in 1.118)
- Reverting to 1.117 seems to mitigate issue; expecting re-release of certs asap.

RAL:
- Unscheduled outage for Echo on 2nd for a brief period, due to issues in the Data Centre.
- Antares; currently in DT (for frame upgrade).

T2:
- LANCS; To enable rucio symlink testing on Datadisk?
- OX: still trying to update XCache with latest changes for VP
- RHUL: Also working on VP; getting monitoring information across

CMS (Daniela):

Bristol has a new xrootd ticket:
https://ggus.eu/?mode=ticket_info&ticket_id=160788
As Luke notes, the test failures seem to xrootd, but not webdav

Hidden in a xrootd Bristol ticket was this bit of generally useful information:
"Regarding IAM-issued token tests: The new WebDAV and XRootD probes that went into ETF production on Tuesday include tests for IAM-issued token access. Those are for information only right now and should help during the commissioning. We plan to start IAM-based token commissioning in a few weeks. (Things for native xrootd services are ready but on dCache and EOS site work on the configs is) ongoing."

RAL has echo monitoring problems, being blamed on an externally hosted DNS server:
https://ggus.eu/index.php?mode=ticket_info&ticket_id=160682

monit link

LHCb: (Mark/Alexander):

RAL T1:
- LHCb's xrootd client update
    - New client is built against openssl 3, which has stronger cipher requirements
    - Patch was applied to RAL's WN gateways, it looks OK so far
- Problems with ipv6 connectivity for RAL's LHCb VO-box
    - Necessary ports seem to be blocked, tier-1 team requested firewall changes
- Long-lasting issues
    - Problems with simultaneous access to the same file on ECHO
        - patch was applied to all ECHO gateways, it looks good so far
    - Slow "stat" calls
        - On hold
    - Vector read
        - Patch was applied to the second WN.
        - No failures due to vector read problems so far

T2:
- Problems with pilot submission at Brunel
- Final steps of the migration to ceph are ongoing at Glasgow

Liverpool have a singularity ticket, similar to what we saw at Lancaster:

"Other" VOs:

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

- A new workflow (JustIN) tests url:
  https://justin.dune.hep.ac.uk/dashboard/?method=awt-results

- Add JustIN DN to RAL_ECHO
  (https://ggus.eu/index.php?mode=ticket_info&ticket_id=160820)
- ETF fails at ECDF: fixed by restarting Argos
  (https://ggus.eu/index.php?mode=ticket_info&ticket_id=160752)

Some other sites have similar issues - possibly leftovers from vomses move?

Brian would like to see if the new DNs can be picked up by regular VOMS means.

SKA:

NTR

LSST/Rubin:

Moving towards building up the infrastructure to shuffle around the equivalent of a full night's data. rubin sticking to rucio 1.29, so some drift from atlas/cms (on 1.3x)

Other VOs:

Noticed a few na63 tickets, being worked on.

General Updates/Discussion

Problems with 1.118, from JK's mail to tb-support:

Here is a summary of the main points regarding the issues with the UK eScience Root n IGTF 1.118

1. We recently released to IGTF (at their request) a SHA256-signed Root (as various s/w such as some browsers were refusing to accept the previous version in their trusted keystores as it was SHA1-signed (even though such a use in a self-signed trusted Root is not an issue)
2. Various issues were reported after 1.118 was installed (see previous threads, plus a couple of GGUS tickets). There were also varying symptoms.
3. We found a discrepancy in our newly signed Root in that its Subject and its Issuer, although identical, were encoded differently (PRINTABLESTRING vs UTF8STRING) and reckoned this was likely to be causing a number of the above issues, at least if old (pre 1.0.0) openssl libraries were used (or there were other crypto libs in use that wasn't standardising the encoding before comparisons as would be expected).
4. Yesterday Jens signed and released another Root certificate to IGTF and it will re-released ASAP

(printable strings in both)

5. If there is someone on a site that has been having problems wants an advance copy to test then please let me know ASAP

NOTE 1: We are not 100% certain that the above issue is responsible for all the issues, for instance the auto-generation of sort links to the hash-named .pem files also appeared not to be working at least for some, so there may well be another issue in the way the package generation was done.

NOTE 2: one suggested reason for the issue manifesting itself was the fact that some of the UK systems were sending a Root (in some cases an old Root not the new one) over the TLS handshaking. Please do not do this – you should send the whole chain except the Root!

ACTION (All): please ensure that Root certs are not present in the certificate chain files that are sent during TLS handshaking

-This likely out of all our hands (including the devs if they're using an existing library).

From Jens in the meeting - some concern that tests didn't pick this up, as new root was created in November.
Need more realistic testing, or some kind of pre-release?
Some discussion of curl commands from infn ticket, but curl is built against different crypto libraries.
STORM problems could be because it's written in JAVA? This isn't tested internally.

1.119 release has the fix in it, it should be tested before being released. Alessandra suggests testing with Petr's curl test because openssl on c7 and rocky9 both verify the chain. StoRM is written in java, that might be a issue. Dan willing to test on their STORM - Jens can send the cert to TB-SUPPORT. Dan notes the lack of a UK testing platform missed this.

Meeting Updates

GridPP49 registration: https://indico.cern.ch/event/1215829/
Call for BoF ideas, talks.
Note (possible) Train Strikes around the time…
Some questions about parking. Parking is limited, but no permits in place that we know of.
There is paid parking nearby.
Brian: abbey close car park https://goo.gl/maps/ZKXkTHZgKmMacvee9

WLCG Ops Coordination meeting last Thursday:
https://twiki.cern.ch/twiki/bin/view/LCG/WLCGOpsMinutes230302
https://indico.cern.ch/event/1259089/
Some very interesting talks on HEPSCORE. Main points

- Not useful to benchmark old hardware it lowers the score
- If HS06 and HEPSCORE published APEL picks HEPSCORE
- Script to run the suite now has options
    - ./run_HEPscore.sh -s SITE -p -c ./cert.pem -k ./key.pem
        - it will take a few hours
- Where cert.pem and key.pem are the operator's cert to publish the results
- Could be a robot cert (not sure if it would work with a host?)
- This script installs the suite and runs it with the default configuration and at the end publishes the results in monit.
- You can publish asynchronous for all the machines too but it takes a bit more effort to organise it.

Tier 1 Status

Antares(CTA), is now in a week long down-time while the frames are being extended. At the current time, the work is progressing as scheduled.

The Grid Services team have resolved an issue with accounting between Condor and the ARC's. The Tier-1 accounting metrics now match with the numbers seen by the Liaisons.

Brian notes still publishing old SRM in bdii, which could be causing issues.

Tier-1 Network upgrade (latest update on top)

28/02/23 Progress on deploying new WNs to LHCONE. New 2nd 100GE LHCOPN link installed (needs to be fully configured)

17/01/23 - We are getting close to running the Change Control for the firewall changes (scheduled for this week – 19/01/23).   Currently jobs are running on new firewall config with this config being rolled out to 10ff WN's this week with further roll-out next week.

Tom B notes that there is good progress in this. The "tip toeing" phase is over, and moving forward with confidence now.

29/11/22 - Tom B has test firewalls for WNs, one step closer to them being on LHCONE

22/11/22 - hopefully some updates this week. Central core hardware routers *have* been replaced.

13-09-22 - Tom B notes a problem with host firewalls on LHCONE nodes.

09-09-22 - IPv6 Traffic now enabled on the super spine.

02-08-22 - intention to make 2022 WNs (rocky 8 gen) hope to put these on lhcone.

17-05-22 Technically joined the LHCONE but at the moment it has only one host (the new perfSonar box). Currently we have resource checking and conforming routing between endpoints and IPV6 allocations.

05-04-2022 Resolution of new storage node access and central security work delayed LHCONE activity. Being re-timetabled.

Security Brief

New home for advisories: https://advisories.egi.eu

- Operational update [standing item]
- Comms Challenge
- Site Security Challenges
    - Proposed Technical Meeting on 3rd March on comms during incident response - delayed, no date set yet.
- Site Security Survey

Operational Issues.

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 Friday's 14-15:00 UK.

NTR

Networking News

UK Mesh
Check_MK monitoring
Perfsonar refresh - GridPP Wiki
Dune Mesh
perfSONAR certificate status
perfSONAR issues

Jisc Slough - no bandwidth results - looks like it has run out of disk space.

Performance issues

Jisc Slough issue from last week now resolved.

IPv6 update from Mark@Birmingham:
"Just to give an update: I've stalled a bit with the university when I asked for externally visible addresses (the original ones they put in were just internal which is useless as the Bham site is outside of the firewall anyway). Despite the technical aspects being basically solved, they seem to want a 'business case' or some such. I'm in discussions and will keep you informed!"

We can always deploy the Pete if needed.

Chris W hosted a HPC-SIG premeeting yesterday on Networking, which was successful.

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.
There will be a Storage BOF at GridPP49 - likely to be xroot-y unless enough people want something else.

Talks for GridPP49 (in 3 weeks).
New xroot release looks okay.
Lancaster's move to Dcache next week.

Technical Update

Standing subjects:
-RHEL8/9 clone experiences

-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`
(discussed earlier in meeting).

-XRootD Shoveller Adoption

Duty Report

There was a weird monitoring hiccup last night which threw up a lot of alarms that needed to be cleaned up, but it looks like this was a problem on the monitoring side.

Tickets

[UK GGUS tickets](#)

51 Open tickets in the UK

News

Chris B switched on jumbo frames this morning (might switch them off again later though). Nothing has broken thus far.
Perfsonar was done a few weeks ago, that saw improvements to other jumbo frame sites.
See Tim's talk for more info.
https://indico.cern.ch/event/1242396/contributions/5279622/attachments/2598552/4486355/2023-02-23%20HEPIX%20IPv6%20Jumbo%20frame%20discussion.pdf
Yet another topic for a Friday meeting.

AOB/Feedback for/from the PMB

Naught.

Actions/Decisions from This Meeting

Reminder of the action to send info to AF.

Chat Window:

11:41:37 From Brian Davies - STFC UKRI To Everyone:
    abbey close car park https://goo.gl/maps/ZKXkTHZgKmMacvee9
11:48:05 From Daniel Traynor To Everyone:
    HepSpec was a useful burn in script for any new hardware we brought
11:48:22 From Alessandra Forti To Everyone:
    Indeed
11:49:37 From Alessandra Forti To Everyone:

It is only if you want to publish that this problem of the certificate happens. Publishing the results is useful but you can avoid publishing and setup some collection script and publish at the end.

11:50:01 From Alessandra Forti To Everyone:

*you can avoid publishing on a per machine basis

12:03:32 From Chris Brew - STFC UKRI To Everyone:

Yeah, we blew Delloite's minds when they came to "review" us.