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WLCG Operations Coordination Minutes, Aug 29, 2019

Highlights

- SIR on the CNAF outage
- Upgrade of storage at the WLCG sites to versions required for TPC
- New accounting workflow

Agenda

<https://indico.cern.ch/event/840490/>

Attendance

- local: Andrea M (CERN data mgmt), Boris (WLCG), Concezio (LHCb), Julia (WLCG), Maarten (ALICE + WLCG), Renato (CBPF + LHCb)
- remote: ? (KIT), Alessandra (Manchester + ATLAS + WLCG), Andrea S (GRIF), Christoph (CMS), Dave (FNAL), Di (TRIUMF), Eric (IN2P3-CC), Felix (ASGC), Igor (NRC-KI), Johannes (ATLAS), Luca (CNAF), Marcelo (CNAF), Mike (ASGC), Miro (databases + WLCG), Panos (WLCG), Pepe (PIC), Prasun (Kolkata), Ron (NL-T1), Simon (TRIUMF), Thomas (DESY), Tigran (dCache), Vikas (Kolkata)
- apologies:

Operations News

- The next meeting is planned for Oct 3
 - ◆ Please let us know if that date would pose a major inconvenience

Special topics

CNAF outage

see the report

- it has been uploaded into the WLCGServiceIncidents archive
- a few more details are in the experiment reports below

Upgrade of storage at the WLCG sites to versions required for TPC

- Alessandra: the DOMA TPC WG have set the end of this year as a tentative deadline

Review of the situation at the T1 sites

- Table for T1 upgrade followup
- Tier1 site support teams, in case you did not check and update info in CRIC, please, do ASAP.

Detailed instructions how to proceed

New accounting workflow

see the presentation [↗](#)

Middleware News

- Useful Links
 - ◆ WLCGBaselineTable
 - ◆ MW Issues
 - ◆ Storage Deployment
- Baselines/News
 - ◆ storage baselines have been updated following DOMA TPC WG requirements

Tier 0 News

Tier 1 Feedback

Tier 2 Feedback

Experiments Reports

ALICE

- NTR

ATLAS

- Smooth Grid production over the past weeks with ~320k concurrently running grid job slots with the usual mix of MC generation, simulation, reconstruction, derivation production, user analysis and a dedicated reprocessing campaign (see below). In addition ~90k job slots from the HLT/Sim@CERN-P1 farm when it was not used for TDAQ purposes. Some periods of additional HPC contributions with peaks of ~50 k concurrently running job slots running simulation using EventService.
- Since August 8th running a special reprocessing campaign of 2018 data (~7 PB, 3mio files) using the data carousel setup. This requires a stage-in of all RAW inputs from tape at the Tier1s. A few notes and possible future improvements:
 - ◆ Expected throughput: Stage 7 PB in 2 weeks: 5.8 GB/s, for a 10% Tier1: 580 MB/s
 - ◆ INFN-T1 could not be used due to its ~2 weeks downtime - CERN CTA was used very successfully instead.
 - ◆ Observed contention in the data export along the tape -> disk buffer -> data disk path at Triumpf and IN2P3-CC since the tape staging was faster than the copying away of the data from the disk buffer - room for improvements on the FTS and dCache side more news from FTS experts.
 - ◆ Suboptimal tape staging performance observed at FZK and PIC
 - ◆ Tier1s: are the the file pins are respected on the disk tape buffer ?
 - ◆ Improve the ATLAS WFMS task release threshold w.r.t the optimal fraction of available inputs files on disk after staging from tape
- Can dCache please have a look and implement the following space token writing feature request which is critical for TPC and non-gridftp stores: <https://github.com/dCache/dcache/issues/3920> [↗](#)
- CentOS7 site migration still not finished:
https://twiki.cern.ch/twiki/bin/view/AtlasComputing/CentOS7Deployment?sortcol=2;table=2;up=0#sorted_tab

Have set the analysis queues at 13 sites to job-broker-off mode and will do the same for the corresponding production queues on September 15th in case of no visible progress.

- Now in the tails of switching to the new PanDA worker node pilot version2 + singularity. Only moving CentOS7 queues. Excluding CERN-P1, there are the following jobs slots converted/not-converted: ~300k pilot2, ~260k pilot2+singularity, ~20k pilot1 (and still to be migrated to pilot2+singularity+CentOS7)

CERN ATLAS FTS incident

see the presentation [↗](#)

- Maarten: besides Rucio, could also the FTS apply a request cap to avoid overload?
- Andrea M: to be looked into

- Julia: might an overloaded FTS redirect clients to other instances?
- Andrea M: when the FTS has become able to refuse requests when overloaded, the client (e.g. Rucio) would need to make its own decision
- Johannes: Rucio currently has static FTS assignments per region, no load-balancing
- Julia: Rucio could be made to react on FTS overload errors and fail over to other instances

- Julia: there will be updates on FTS improvements in the next meetings

Discussion

- Julia: concerning the dCache feature request, we will follow up with the devs

- Julia: now that a sizable number of DPM sites have already upgraded, did the situation with the deletion errors improve?
- Johannes:
 - ◆ we still see issues every week and have to keep opening tickets
 - ◆ for the next meeting we can prepare some stats

CMS

- Rather smooth running over the summer
 - ◆ No major site issues, at some (longer than usual) delays due to site staff being on vacation
- Main activities
 - ◆ Reconstruction of 'parked' b-physics events ~75% done
 - ◆ Reconstruction of HI data almost finished
 - ◆ Started of full reconstruction of Run2 data and MC
 - ◇ This will keep us busy for most of LS2
 - ◆ **All requires quite some tape staging**
- Migration to CRIC continues
 - ◆ Legacy CMS siteDB now frozen

LHCb

- Smooth production of both MonteCarlo and real data
 - ◆ No major site issues
 - ◆ CNAF outage slightly delayed our re-processing campaign of Run1 data, but now catching up
- Starting using containers, the following requirements are needed (LHCb VO card updated accordingly)
 - ◆ CentOS7
 - ◆ Singularity

- ◆ user namespaces
- ◆ /cvmfs/cernvm-prod.cern.ch (in addition to /cvmfs/lhcb.cern.ch, /cvmfs/lhcb-condb.cern.ch, /cvmfs/grid.cern.ch) on the worker nodes
- ◆ we will be ticketing sites (starting from Tier1s, then Tier2s) that are not ready with those.

Task Forces and Working Groups

GDPR and WLCG services

- Updated list of services

Accounting TF

- See presentation of the new accounting workflow

Archival Storage WG

Containers WG

CREAM migration TF

- more info at [CreamMigrationTaskForce](#)

dCache upgrade TF

- Twiki page is under construction

DPM upgrade TF

- Julia:
 - ◆ already >50% are at the required version, but only a subset have switched to DOME
 - ◆ we will open tickets for the remaining sites
- Renato:
 - ◆ mind it is not just an upgrade, but a major configuration change
 - ◆ after a lot of help from the DPM devs, our instance at CBPF is fine now

Information System Evolution TF

- MONIT team started integration with CRIC to get rid of dependency on REBUS

IPv6 Validation and Deployment TF

Detailed status [here](#).

Machine/Job Features TF

Monitoring

- Status report presentation is planned for the October meeting

MW Readiness WG

Network Throughput WG

Squid Monitoring and HTTP Proxy Discovery TFs

- Nothing to report

Traceability WG

Action list

Creation date	Description	Responsible	Status	Comments
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Specific actions for experiments

Creation date	Description	Affected VO	Affected TF/WG	Deadline	Completion	Comments
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Specific actions for sites

Creation date	Description	Affected VO	Affected TF/WG	Deadline	Completion	Comments
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AOB

This topic: LCG > WLCGOpsMinutes190829

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