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WLCG Operations Coordination Minutes, June 8, 2023

Highlights

- We kindly remind sites and people dealing with pledge management to provide input to the surveys about accounting and pledge management tools and procedures. Thanks a lot to those who already answered. The surveys will be closed at the end of June. We have the same request addressed to the experiments. Thanks a lot to ALICE and ATLAS who already answered.
- Review of the CERN Grid CA expiration incident from the WLCG perspective
- HEPsScore status update
- APEL progress on HEPsScore integration
 - ◆ Postponed till the next meeting.

Agenda

<https://indico.cern.ch/event/1293820/>

Attendance

- local: Berk (CERN IAM), Christoph (CMS), Eric G (CERN IT-PW GL), Giuseppe (CMS), Julia (WLCG), Maarten (ALICE + WLCG), Panos (WLCG), Paolo (CERN Grid CA), Stephan (CMS)
- remote: Adrian (APEL), Alessandra D (Napoli), Alessandro DG (ATLAS), Alessandro P (EGI), Andrew (TRIUMF), Asier (CERN SSO), Borja (monitoring), Concezio (LHCb), David C (Technion), David M (FNAL), David S (ATLAS), Domenico (WLCG), Leona (computing), Maria (computing), Mario (ATLAS), Matt D (Lancaster), Ofer (BNL), Petr (ATLAS + Prague), Sebastian (CERN SSO), Thomas (DESY)
- apologies:

Operations News

- the next meeting is planned for July 13

Special topics

Review of the CERN Grid CA expiration incident from the WLCG perspective

Links for collected material

- Input collected from the experiments
- Postmortem SSO [↗](#)
- Postmortem WLCG IAM [↗](#)

please see the presentations [↗](#)

Discussion

- Mario:
 - ◆ what might be the impact of the move to the new CA?
 - ◆ mind that old clients will be there at least throughout Run 3!
- Paolo:
 - ◆ the new CA initiative is still under development
 - ◆ we will have a pilot service to collect feedback
 - ◆ the new CA should be much better w.r.t. host certificates:
 - ◇ the CA is in IGTF, yet trusted by default in browsers
 - ◇ it is already being used at other sites on the grid
- Thomas:
 - ◆ we have been using Sectigo since 1 year, but here is a word of caution:
 - some clients ran into problems depending on the PEM format used
 - ◇ some libraries have issues with chains of host + issuer certificates
- Paolo:
 - ◆ we will need to see what to do about that
- Julia:
 - ◆ does ATLAS have a suggestion for how the communication could be improved?
- Mario:
 - ◆ once we managed to open a ticket about the dysfunctional SSO,
 - the reply was not helpful ("it works for us")
 - ◆ there were emotions because data taking was in jeopardy
 - ◆ in the end, some things cannot be controlled, which is acceptable
 - ◆ as there is ancient SW to be supported: maybe test for that in the future?
- Sebastian:
 - ◆ a service provider needs to know the dependencies on their service
 - ◆ is data taking affected when the SSO is down?
- Mario:
 - ◆ we could not log into SNow
 - ◆ the main problem for ATLAS turned out to be the Python client issue on CC7,
 - but things were not clear, there were several reports and escalations
- David S:
 - ◆ data can be buffered, but many services depend on SSO
 - ◆ the bottom line is that SSO needs to be considered critical for data taking
- Eric G:
 - ◆ do we need to do something special for that?
 - ◆ SSO sits on the GPN and has dependencies on other services in the data center
- Maarten:
 - ◆ to create a separate SSO for the experiments would be very expensive
 - ◆ we should not go overboard here: even though the incident was unexpected and
 - happened at quite an awkward time, it was mostly resolved within 3 hours
 - ◆ we apply the lessons learned and that should already help a lot
- Paolo:
 - ◆ agreed
- Eric G:
 - ◆ the next major SSO change will happen during a Technical Stop,
 - which may be fine for the experiments, but not for the accelerators
- Sebastian:
 - ◆ *interventions* are carefully planned and usually go OK
- Mario:

- ◆ what is the relationship between Kerberos and SSO?
- ◆ data taking needs Kerberos to work
- Paolo + Sebastian:
 - ◆ SSO depends on Active Directory (AD) services: Kerberos and LDAP
 - ◆ AD is provided by a sizable number of Domain Controller machines, some of which are for special networks
 - ◇ ATLAS, CMS, Technical Network, ...
 - ◆ AD is one of the most reliable services in the Data Center
 - ◆ if SSO is down, AD is not affected
 - ◆ conversely, Kerberos and LDAP can be used to authenticate to SSO
- Concezio:
 - ◆ LHCb agrees with the conclusions from the discussion so far
 - ◆ LHCb was not so affected, due to not taking data
- Paolo:
 - ◆ for the record, the SSO was recovered in particular thanks to Vincent Brillault
- Paolo:
 - ◆ please check OTG:0077330 [↗](#) linked to the agenda, about a new release of the CERN-CA-certs package (**not** the Grid CA)
 - ◆ the old certificate will expire on Sat July 29
- Maarten:
 - ◆ is it used by Puppet?
- Paolo:
 - ◆ not AFAIK
 - ◆ it may be used by XLDAP, but its clients typically use the ldap protocol, not ldaps
 - ◇ hence should not care about any certificate change
 - ◆ eduroam may well be the biggest user
- Maarten:
 - ◆ a reminder in the week just before the expiration would be good
 - ◇ to be followed up

HEPScore status update

please see the presentation [↗](#)

Discussion

- Stephan:
 - ◆ are there plans for making a WN's HS23 rating available on the WN?
 - ◆ it would allow pilots to have a better idea of what can still be run in a slot
- Maarten + Julia:
 - ◆ we tried that for HS06 in the Machine Job Features TF
 - ◆ only LHCb was interested and after a few years we gave up and closed it
- Stephan:
 - ◆ it does not look too hard?
- Domenico:
 - ◆ the bare-metal HS23 value could be published, but there may well be discrepancies with the performance of a grid job slot
 - ◇ see page 3 in the presentation
 - ◆ LHCb preferred letting their jobs run a fast benchmark at the beginning
 - ◇ obviously with less precision
- Stephan:

- ◆ overclocking could be an issue
- ◆ the value at the start of a job might not be valid N hours later
- Alessandro DG:
 - ◆ if we set up a central DB with records for most of the machines, we could have a simple lookup table in CVMFS
 - ◆ if we ask each site admin to supply numbers, that will not work, we tried it several times
 - ◆ if a precision of 20-30% is good enough, a table should be sufficient
- Domenico:
 - ◆ we have endeavored to make it easy to publish results centrally
- David M:
 - ◆ mind we have declared HS06 ratings of old HW to be on a par with HS23, which would imply those values cannot be trusted for such purposes
- Stephan:
 - ◆ we could publish the values as HS06 for old HW
- Domenico:
 - ◆ HS06 for old HW is equivalent to HS23 only in matters of accounting
 - ◆ the performance table would be filled with new measurements
- Thomas:
 - ◆ can we stop relying on certificates for uploading those values?
- Domenico:
 - ◆ that depends on when Active MQ can be made to support tokens
- Julia:
 - ◆ token support has been requested also for monitoring workflows
 - ◆ it is on the plate of the Authorization WG
- Maarten:
 - ◆ how would cloud resources be handled?
 - ◆ one will not be able to obtain bare-metal HS23 values for those
- Stephan:
 - ◆ a CE flag would indicate that
 - ◆ it is not only CPUs that are concerned, but also GPUs etc.
- Maarten:
 - ◆ my concern would be that another big effort gets spent on this, only for a conclusion to be reached that the numbers being published on the WNs are too unreliable in practice
- Julia:
 - ◆ can we first look into a table?
 - ◆ it would offload the sites
 - ◆ to be followed up
- Julia:
 - ◆ thanks very much to Domenico and colleagues for all the work done!

APEL progress on HEPsScore integration

Postponed till the next meeting.

Middleware News

- Useful Links
 - ◆ WLCGBaselineTable
- Baselines/News

Tier 0 News

Tier 1 Feedback

Tier 2 Feedback

Experiments Reports

ALICE

- Moderate to normal activity levels, no major issues
- Tokens for normal jobs in use at most of the HTCondor CE sites
- Continuing with switching sites from single- to multicore jobs
 - ◆ ~90% of the resources already support 8-core or whole-node jobs

ATLAS

- Smooth running with 500-750k slots on average, mostly Full Simulation
 - ◆ Two peaks beyond 850k slots, one drop to 300k due to low simulation
- Smooth data taking
- TAPE REST API
 - ◆ CERN, FZK, and RAL migrated.
 - ◆ Ticketing campaign to other sites, next potential site: PIC
- LHCOPN cloud peering initiative with ESnet
- Transfers with tokens and HTTP protocol enabled on one storage for each SE implementation
 - ◆ Will now advertise and push
- Waiting for large scale mc23 campaigns to start, once reco releases available

CMS

- conflicting CMS O&C meeting, we'll connect late
- smooth collision data recording and processing
- brief factory no-new-pilot submission period but otherwise no major issues
 - ◆ good core usage between 180k and 430k cores
 - ◆ usual production/analysis split of about 3:1
 - ◆ up to 32k cores from HPC/opportunistic sources
 - ◆ main production activity still Run 2 ultra-legacy Monte Carlo
- waiting on python3 version/port of HammerCloud
- planning SRM to REST migration for Tape endpoints
- working with our DPM sites to migrate to other storage technologies
- token migration progressing steadily
 - ◆ storage at 11/62 sites ready
- looking forward to 24x7 production IAM support by CERN
 - ◆ several services at sites running a version without public key caching
- in discussion with Andrea Valassi about HEP_OSlibs RPM, thanks for connecting us Maarten

Discussion

- Julia:
 - ◆ next time we will invite the new team responsible for HammerCloud

LHCb

- usual activities, no major issues
 - ◆ dominated by simulation production
 - ◆ detector commissioning at point8, with very small samples transferred at the Tier0 and distributed on Tier1 disk and tape
- planning for a reprocessing of Run2 data during 2023/2024 EYETS
 - ◆ massive tape recalls expected

Task Forces and Working Groups

GDPR and WLCG services

- Updated list of services

Accounting TF

- Main effort is on HEPScore integration. See presentation of Adrian.

Information System Evolution TF

- NTR

DPM migration to other solutions

- 17 out of 45 tickets solved.

IPv6 Validation and Deployment TF

Detailed status here.

Monitoring

- Handled a meeting for XrootD servers monitoring with OSG shoveler and collector main developers and test users
 - ◆ Helped identifying some issues and planning tasks
 - ◆ Working in close collaboration with OSG to short out the issues as soon as possible
 - ◇ Discussing possibility to have a "hack-a-thon" to speed up things
- No news from dCache team about the integration with MONIT

Network Throughput WG

- perfSONAR infrastructure - **5.0.2 bugfix was released this week**
 - ◆ **All sites are encouraged to update**
 - ◆ This release is available only for CC7 and sites on auto-updates will be updated automatically (reboot is recommended)
 - ◆ **Support for Alma8/9 is coming soon (next couple of weeks)**
- WLCG/OSG Network Monitoring Platform
 - ◆ We're currently working on updating our documentation to reflect changes in 5.0 and new deployment models

◇ We plan to send a broadcast with summary information to all sites (at the end of June)

- WLCG Network Throughput Support Unit: see twiki for summary of recent activities.

WG for Transition to Tokens and Globus Retirement

- No change in the CE token support campaign on EGI
 - ◆ 130 of 133 tickets solved
 - ◆ only a few small sites remain

Action list

| Creation date | Description | Responsible | Status | Comments |
|---------------|-------------|-------------|--------|----------|
|---------------|-------------|-------------|--------|----------|

Specific actions for experiments

| Creation date | Description | Affected VO | Affected TF/WG | Deadline | Completion | Comments |
|---------------|-------------|-------------|----------------|----------|------------|----------|
|---------------|-------------|-------------|----------------|----------|------------|----------|

Specific actions for sites

| Creation date | Description | Affected VO | Affected TF/WG | Deadline | Completion | Comments |
|---------------|-------------|-------------|----------------|----------|------------|----------|
|---------------|-------------|-------------|----------------|----------|------------|----------|

AOB

-- JuliaAndreeva - 2023-06-06

This topic: LCG > WLCGOpsMinutes230608

Topic revision: r11 - 2023-06-19 - MaartenLitmaath



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