

Database Meeting 2022-09-21

Date

21 Sep 2022


Attendees


- Igor Gaponenko Andy Hanushevsky Fritz Mueller Fabrice Jammes Joanne Bogart John Gates Colin Slater Andy Salnikov

Notes from the previous meeting:

- Database Meeting 2022-09-07

Discussion items

Discussed	Item	Who	Notes
✓	Project news	Fritz Mueller, Colin Slater	<p>Fritz Mueller:</p> <ul style="list-style-type: none">JSR started yesterday and it's ongoing. Most of the DM is busy with that.they're focused on the operations and commissioning activitiesDM breakout section will be today <p>Colin Slater:</p> <ul style="list-style-type: none">There is a video on ComCam being installed on LSST video channel
✓	Qserv at SLAC	Igor Gaponenko	<p>Latest news:</p> <ul style="list-style-type: none">The 6-node Qserv is up and runningIt's wired into the monitoring system, that's really useful. Here is the direct link to the Graphana monitoring page for the cluster: https://grafana.slac.stanford.edu/d/m_Xura8Zz/batch-cluster?orgId=1&var-hosts=sdfk8sc&from=now-1h&to=now&refresh=30sLoaded with 4 catalogs: DP01, DP02, Gaia DR2, WiseSingle replica configuration as we don't have enough storage for 2 replicasUsed 9.5 TB (out of 12 TB available) at each nodeWrote the cluster usage and data management guide at: Managing Qserv instances at SLAC that is linked from Qserv DeploymentsMade a short report at the joined facilities (USDF, FrDF, UKDF) meeting on Monday: Joint Data Facility Meeting - 2022-09-19The preliminary ETA for the new hardware (15 nodes) is the end of November (heard at the same meeting) <p>Issues:</p> <ul style="list-style-type: none">the network configuration of these 6 nodes prevents apps from connecting to the Internethad to use a proxythe real performance of the proxy while ingesting 40 TB of DP02 was limited by 200 MB/sin the latest change of networking configuration, direct access to the Internet was enabled. ⚠️ Though, all external traffic now goes via a software router, limiting the available bandwidth to something like 10 Gbps or less. According to Yee, it was decided by Amedeo P and SLAC Cybersecurity Platoon. Yee thinks that in the future all ingested products should be put onto the SLAC/USDF-local data sources (shared POSIX filesystems, object stores).the Replication system's algorithm for populating the <i>director</i> indexes has poor performance (has restricted implementation preventing it from utilizing available resources). This will be addressed in: <div><p>◦  DM-36241 - Jira project doesn't exist or you don't have permission to view it.</p></div> <p>What's next:</p> <ul style="list-style-type: none">TAP serviceperformance tests (to compare with IDF) <p>Fritz Mueller</p> <ul style="list-style-type: none">S3 storage needs to be installed locally for storing TAP service results or enable using the one from the LSST Google Cloud as a workaround

✓	Status of DP02	team	<p>Colin Slater has it been enabled in the TAP service of <code>qserv-prod</code>? Are the truth tables of the <code>qserv-prod</code> behaving the way it's expected (like we saw this at <code>qserv-int</code>)?</p> <p>Igor Gaponenko on the status of the latest version of the remaining tables at IN2P3:</p> <ul style="list-style-type: none">• they got the "green light" to proceed with updating/ingesting these tables• according to my last comms with Gabriele Mainetti, this will happen shortly <p>Colin Slater:</p> <ul style="list-style-type: none">• joins from TAP haven't been tested yet (blocked by the ongoing DM reviews)• latest changes have already been pushed to IDF
✓	Progress on <code>qserv-operator</code> and <code>qserv-ingest</code>	Fabrice Jammes	<p>Igor Gaponenko on the known issues:</p> <ul style="list-style-type: none">• the short hostnames for the Replication/Ingest workers that were introduced recently do not seem to work for <code>qserv-ingest</code> due to Kubernetes namespaces.• issues with the LSST Logger configuration reported in this development: <div><p>◦  DM-36004 - Jira project doesn't exist or you don't have permission to view it.</p></div>

Action items

