

# Database and Data Access Meeting 2016-05-18







## Date

18 May 2016

## Attendees

- @AndyS @gapon @vaikunth @natepease @jgates @FabriceJammes @MichaelKelsey @AndyHanushevsky

## Status Reports

Fabrice: Monitoring work (  [DM-5885](#) - Create a JSON file for monitoring stack  ). Will sit with Fabien to provide monitoring reports from large scale tests. Fixed docker git script (  [DM-6130](#) - Fix docker git script: providing both -R and QSERV\_DIR make it fails  ). Command line complex, will provide docs. Will work on Docker swarm (  [DM-5967](#) - Provide docker swarm POC for Qserv containers orchestration  ). With Walid (student at IN2P3) working to set up scripts – can he get NCSA account?



Nate: Butler stuff. RFC-184 closed as adopted; working on implementation. Storage factorization.



Vaikunth: Progress cleaning up Kibana dashboard, now gets only nodes we care about. Can adopt and do analysis on data; some binning effects due to pre-aggregation?

Andy S: Finishing tech note about L1 database schema, revision, etc. Need reviewer before publishing (soon!). Next step to start prototyping implementation. Biggest unknown: new L1 for each release, or accumulate forever? Will look at MySQL vs. PostgreSQL. Must be partitioned, based on time -- newest is active; close when full and open new one. Avoid searches across multiple partitioned.

Igor: First week; getting up to speed. Still need HipChat account, NCSA, IN2P3 (request access to QServ cluster). Want to build/test software before leaving. Get VMware installed on Mac.

Michael: Adding objectId to internal containers in Isst/partition, in order to dump secondary index.

John: Threads throttled much more than expected on cluster (  [DM-5940](#) - Add code to the czar to throttle incoming large results.  ). Possible solution: use single pool of threads to allocate among requests; enforces maximum total usage. Bigger problem: proxy gets too much data back, then dies -- eats system resources rapidly then stops, taking czar with it. Very narrow window of "safe" queries which both exercise new code and doesn't kill proxy with results.

Andy H: Will discuss face-to-face w/John some changes to simplify his proxy stuff. Logging in XRootd essentially done except for interface to QServ logger (  [DM-4473](#) - Improvements to logging in xrootd  ). Sequencing releases to coordinate with QServ in process. Working on memory management stuff as well.