

Services and Tools Activity Summary

Experiment support activities — Dmitry, Matt, Vincent

- **sPHENIX** / Run 1 preparations
 - **PanDA** database ([PanDA requirements](#)):
 - Operational, using new VMs with backups
 - Schema upgraded to the latest version (both dev and prod - *Xin*)
 - Stress-testing: basic tests successful, awaiting for a mixed test
 - **Rucio**:
 - DB: Operational, using new VMs
 - Request to enforce md5 checksum (instead of adler32) (*Jason*) — Done
 - [New discourse topic](#): Discussion (ops / dev support)
 - **Shift Signup**: operational, Shift Training requirements added to the front page (*Stefan/Kin*), open for the whole Run 1 period of Apr 11th - Oct 3rd
 - New **DAQ/Conditions DB@SDCC**: new VM is fully set up and configured, data migration under discussion (*Chris P.*);
- **STAR** / Run 23 preparations:
 - **Migration of DB nodes to SDCC**: ~5 DB servers migrated (as-is, keeping hardware), ~7 DB service instances to be converted into VMs (provided and configured - *Mike*)
 - **ShiftSignup**: operational, open for the whole Run 23 period of Apr 11th - Oct 3rd
 - **RunLog / MIRA services / dbPlots** - up and running
 - **Drupal**: STAR Data/Docs preservation is a hot topic, content migration to D9 is being discussed (*Frank,Jerome*)

General Web Services — Chris

- SDCC Website:
 - Building out pages of monitoring resources (bringing <https://monitoring.sdcc.bnl.gov/> into SDCC website
 - Created a page on SDCC site to reflect monitoring resources
 - Discussing positioning of monitoring page, as well as other organizational/structuring concerns, with Shigeki. Will probably draw Charity Plata into the process if we find more content changes are necessary (depending on her availability)
 - Theme rebuild (including fixes to main navigation) are complete on development. Coordinating rollout to production with Louis P. for the weekend or some other off-hours time when impact is minimized
 - Work continues on troubleshooting search API module

Storage ([RT support](#), Operational interventions [operator log](#)) — Carlos, Qiulan, Matt, Vincent

- USATLAS dCache
 - dCache major upgrade to 8.2.15
 - Network studies (IPV4 vs IPV6): After intervention ATLAS dCache fully dual IPV6/IPV4 stack [\[161\]](#)
 - dCache - HPSS / Tape
 - Stale staging requests in dCache / endit / Batch / HPSS (> 3K after HPSS intervention). Opportunities to improve workflow identified: PFTP copy callback HPSS to dCache improved [\[175\]](#)
 - On going investigation, PFTP connection issues using HPSS proxy (Iris)[\[176\]](#)
 - Last week high tape staging activities (~500k files, 2 PB). Several issues were found. Relevant ones reported to ATLAS ops and FTS teams [\[rt.racf.bnl.gov #35403\]](#) [\[FTS-1902\]](#) [\[FTS-1901\]](#) [\[FTS-1900\]](#)
 - Commissioned xrootd (proxy mode) native 8.2 dCache xRootd for external access [\[171\]](#)
 - Ad-hoc xrootd service for external access decommissioned:
 - standalone server
 - dCache xrootd door on port 1097
 - Contribution from Ilija from chicago.edu for testing [\[GGUS 160981\]](#) — Checking CPU&Mem profile
 - Start to collect dCache access logs such as srm, webdavs, etc in ELK

- **Pre-production / QOS dCache**
 - dCache 8.2.16 deployed
 - Issue with Bulk schema / TAPE REST API <https://github.com/dCache/dcache/issues/7104>
 - Log collection and analysis
 - Billing in ELK
 - Enable more field, e.g., p2p, in the billing text format