

Production Monitoring

Anna Mazzacane

June 6th, 2018

List of Dashboards for Production Teams

- **CD Services Status – Maintenance calendar – Alarms/Warnings**
 - To provide useful info for job submission time and for debugging purposes
 - For example, in case on maintenances, jobs submissions can be hold
 - For example, failures can be related to a particular downtime service when the jobs were running
- **Experiment code status (CI)**
 - Post-install CI tests using the grid help understanding the health of the experimental workflow. (See <https://cdcvs.fnal.gov/redmine/projects/ci/wiki> for more details)
- **Production Overview**
 - List of data processing and MC production by experiment and their status
- **Links to the online monitoring**

Shifter's dashboards

- Select by experiment, users, poms campaign, task (submission), time range, site (filters) – when applies
- Select by view (graphical and numeric representation)
- View quotas, limits in the plots– when applies
- View plots (from kibana) – can be created by the production team of the experiment
- **Batch**
 - Job Status (Number of jobs, Idle, Running, Held, Successfully Finished, Failed, Canceled)
 - Job efficiency (CPU, Memory, Time, Disk - profiling)
- **Data Management**
 - SAM and/or RUCIO (Size of files catalogued, number of files catalogued, active SAM processes)
 - dCache (Transfers rates-inbound-outbound, completed IFDH transfers, staging %, disk usage %)
- **Databases** (Requests/s, bytes/s, efficiencies)

Shifter's dashboards (cont'd)

- More details by clicking on **information links**  and **active links**
- Clicking on information links gives definitions and metrics used (also unities)
- Active links, can be for example:
 - Clicking on POMS campaign provides campaign creation time and creator, update time and updater, list of submissions (tasks) and their status
 - Clicking on the task provides meta-information such as input dataset, version of the software used by the task and of the submission tool, experiment's setups, output storage element, the task creation time and submitter
 - Clicking on the number of jobs submitted in a task provides jobID, status, application exit code, grid end status, number of retries, Site, submitted, started and finished times.
 - Clicking on 'Site' provide a status availability of the selected site in a time window (for example the latest 24 hours) allowing to identify any problematic site and blacklist it from resubmissions
 - Clicking on the number of jobs corresponding to a given status provides a detailed information of all the jobs of a selected category