

SQUARE UPCOMING PLANS

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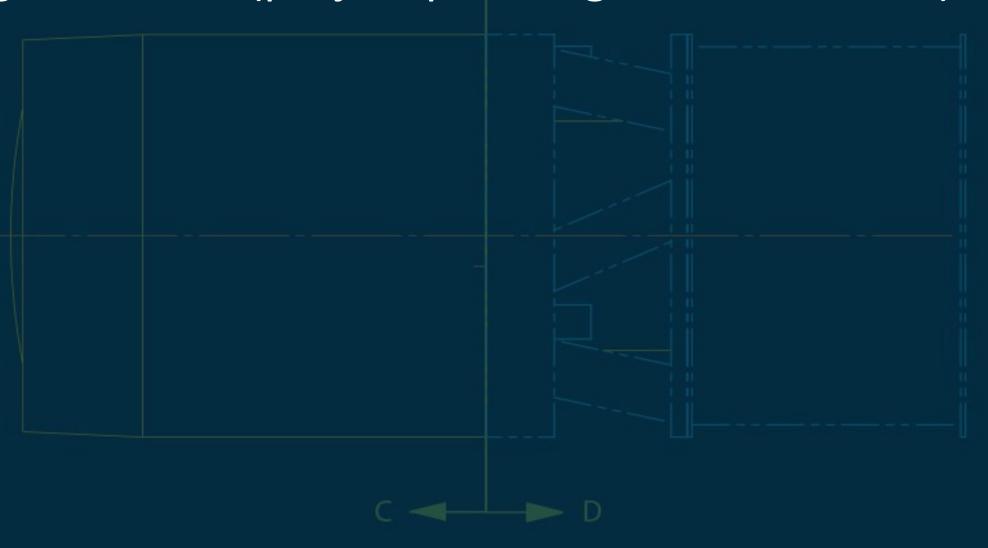
DMLT Nov 2018



State of the Union



- Spurred by SQUASH-specific concerns as well as the need to kick off the work described in DMTN-082 we started a sprint to introduce InfluxDB+chronograf in our toolchain
- We now have a k8s (helm) deployable system (developer sandbox at chronograf-demo.lsst.codes unstable)
 receiving lsst.verify payloads via the SQuaSH API (eg ap_verify metrics)
- Initially this was going to start in December but was brought forward (project planning + EFD soak test)



Introduction

Alert Production metrics from ap_verify

Data from the ap_verify nightly runs.

Check also the AP prototype pipeline documentation.



So about S19 (mostly S19A)



- Catch up on the work initially promised in November (sorry John!)
- Switch development focus from LSP back to metrics/QC
- DMTN-082 (what happens after proof of concept sprint?) January lab work with AuxTel
- Stabilize jellybean and backlog major new features
 - punt production hardening (just did containers-not-as-root)
 - punt resource management issues (eg. dask) and LDF performance issues (file & forget)
 - given descope probably can't punt on firefly scaling / plugins / whatever IPAC needs
 - Vaikunth / AAS Demo
 - will keep up with upstream till it breaks, then might punt
 - not looking for new users (but would like to dogfood TAP service)
- Semantic search (for docs but are planning to re-use for notebooks)
- Leanne is claiming 50% of Simon & he just volunteered for processCCD conversion & bootcamps argh
- LSP review (LDM-542 section for jellybean not fit for purpose)

Support of Operational and Emerging services



- Priorities to support use of SQuaRE services:
 - Commissioning group (aka "Chuck" and "Patrick")
 - Verification & Validation Activities (aka "Leanne")
 - External users (eg science collaborations) (aka "Phil")
 - Everybody else

CI, and most services (including some of docs) at maintenance levels





The shims are creaking



Current Provenance And Workflow Shims For Metric System

- Provenance
 - Workflow-derived provenance
 - DATASET: name of the database being processed, e.g HSC RC2
 - DATASET_REPO_URL: do we have a git lfs repo for the dataset?
 - RUN_ID: can we use the associated jira ticket to identify this run?
 - RUN_ID_URL: could be the corresponding jira ticket URL
 - VERSION_TAG: the LSST stack version used, e.g w_2017_14
 - Data-derived provenance
 - dataIDs (visit, ccd, filter) of what was processed very sparse
- Interface to workflow for notebook users not worth shimming
- Jenkins no longer a suitable shim for Workflow

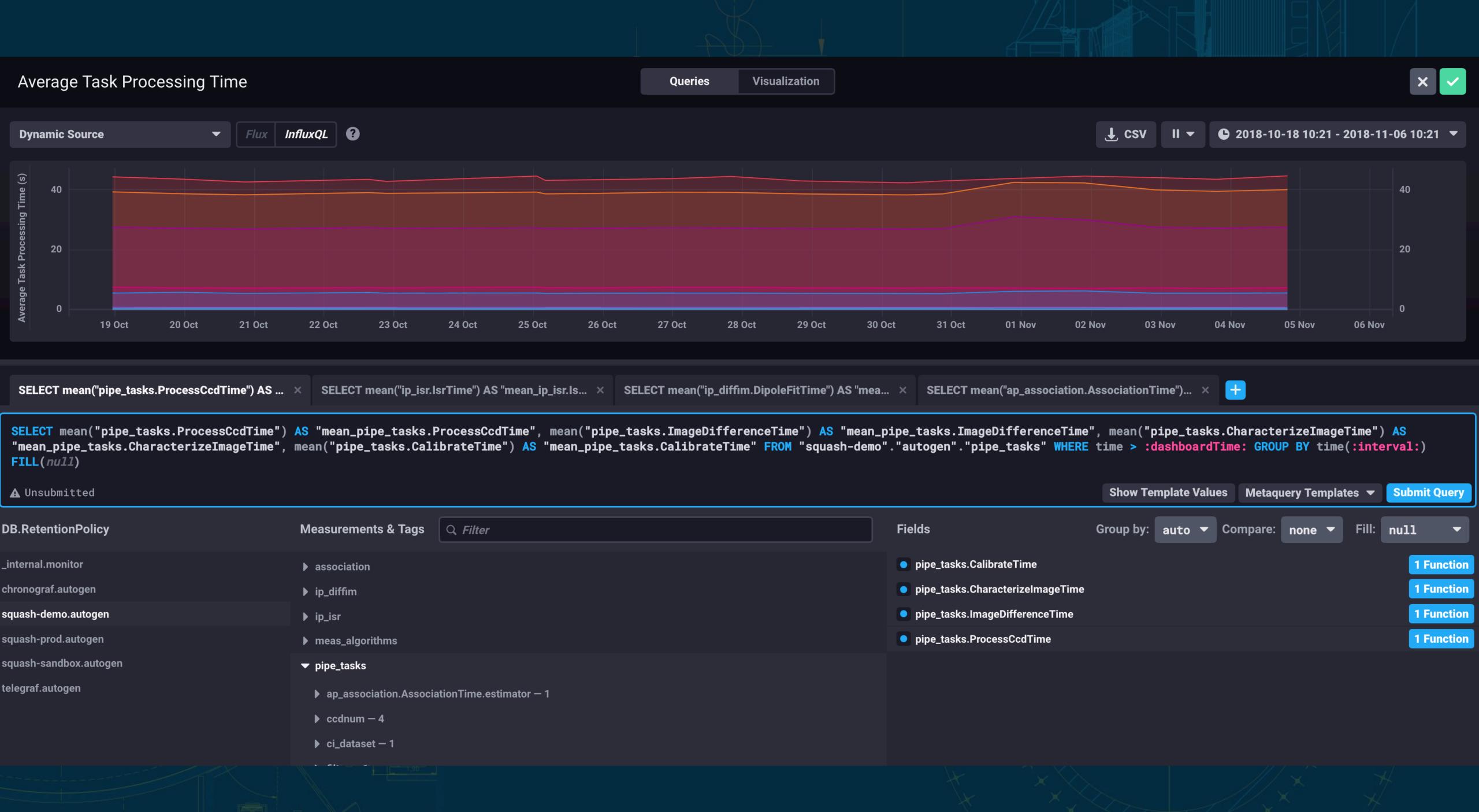
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Chronograf niceties



- Display multiple time series plots
- Use the query builder to define the time series we want to display
- Combine more than one time series in a single plot (e.g. querying different databases)
- Make interactive plots using template variables (e.g. select dataset)
- Export/import dashboards to/from JSON functionality
- Keep a copy of the Dashboard on GitHub for version control
- Sharing URL
- Presentation mode if you add ?presentation=true to the URL
- Markdown/HTML content in cells (available in Chronograf 1.7)