

PDAC Meeting 2017-02-23

Date

23 Feb 2017

Attendees

- Gregory Dubois-Felsmann
- Fabio Hernandez
- Kian-Tat Lim
- Brian Van Klaveren
- Unknown User (jalt)
- Unknown User (xiuqin)
- Trey Roby
- Igor Gaponenko
- Fritz Mueller
- Kenny Lo

Goals

- Continue progress on PDAC service deployment, discuss user feedback

Discussion items

Time	Item	Who	Notes
	Infrastructure / NCSA	Unknown User (jalt)	<ul style="list-style-type: none">• Discussing how we are going to do OS updates in the PDAC cluster<ul style="list-style-type: none">◦ How to apply updates without disrupting operations◦ Gregory Dubois-Felsmann says: we would like 24 hours' notice for unscheduled OS changes and reboots<ul style="list-style-type: none">▪ For user-facing services we are only promising 15-30◦ We will start observing NCSA's routine patch day on PDAC: 8-10 Central 3rd Thursday◦ Trey Roby: please post a summary to #dm-pdac channel<ul style="list-style-type: none">▪ Particularly concerned to know about reboots and about changes in filesystems▪ Unknown User (jalt): we can take "exclude lists" of packages not to be updated• Rough prototype of monitoring system running (based on Grafana), writing a document about it<ul style="list-style-type: none">◦ Possible for users to take a look at it at https://141.142.208.107:3000◦ Unknown User (jalt) will confirm access/instructions
	imgserv cutout services	Fritz Mueller	<ul style="list-style-type: none">• Kenny Lo's work reviewed and on Github, containers built, working on deployment today<ul style="list-style-type: none">◦ Brian Van Klaveren will be working on spinning up the new Docker images◦ Kenny Lo will be writing a Confluence page about the current and new APIs<ul style="list-style-type: none">▪ Will include "I11" and "I12" as well as some other new work done by John Gates last year◦ Kian-Tat Lim: please get the build-and-deploy process documented◦ Fritz Mueller: looking into using Kubernetes for deployment over the next two months, initially testing at IN2P3
	metaserv	Brian Van Klaveren	<ul style="list-style-type: none">• Both old and new versions of metaserv running, but no actual metadata for the PDAC tables.• Waiting for IPAC request for "20 favorite columns"
	WISE database loading	Igor Gaponenko	<ul style="list-style-type: none">• "Object"-like and "ForcedSource"-like table data downloaded and reformatted for MySQL ingest in December, partitioned for Qserv (~150,000 partitions)<ul style="list-style-type: none">◦ Partitioning was on columns with the plain names "ra" and "dec" in both tables, and on the obvious foreign-key relationship between the tables. Referential integrity & consistency between the two spot-checked.◦ Overlap and data location will permit spatial joins between the Stripe 82 and WISE Object-like tables out to a 1 arcmin radius<ul style="list-style-type: none">▪ Some discussion of whether the "substripe" scheme is optimal• Loading "Object"-like table into Qserv - tables loaded, now generating secondary indexes<ul style="list-style-type: none">◦ Expecting to be able to test access through Qserv by the end of the day• Loading of "ForcedSource"-like tables awaits a restart of Qserv with updated containers (already built)• Igor Gaponenko and Gregory Dubois-Felsmann will recover some work from December to document the IPAC metadata service API
	other database / DAX / SLAC		<ul style="list-style-type: none">• John Gates is working on improved handling / scheduling of Qserv queries with large result sizes

	SUIT / IPAC		<ul style="list-style-type: none"> • Trey Roby Early next week we will be ready to deploy our time-series viewer, assuming things work out with the cutout service <ul style="list-style-type: none"> ◦ Questions about user table upload (e.g., to support bulk cone-search queries) ◦ Fritz Mueller: Yes, there will be DAX support for this ◦ For now, bulk queries will have to be done by iterating over single queries; should work at the level of 20 simultaneous queries being launched (c.f. underlying <code>webserve</code> 40-process pool) ◦ Note that our new user is already interested in scales more like 10^3 to 10^5 objects in bulk queries.
--	-------------	--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Action items

