

2017-11-21 Service Mgt. Steering Meeting Notes

Date

Nov 21, 2017

Attendees

- Paul Domagala
- Margaret Gelman Johnson
- Donald Petravick

Scheduled Maintenance

[See the LSST Service Status Page](#)

Note that the December maintenance window is moved from 12/21 to 12/14.

As-is Services

Incidents

- 1 created, 2 resolved.
 - Resolved: [IHS-571](#), NFS mounts to PDAC crashing
 - Created: [IHS-606](#), Unexpected reboot of lsst-qserv-db16

Discussion of Notable Issues

- [IHS-571, NFS mounts to PDAC crashing](#)
 - Initiated [IHS-603](#) to install GPFS on qserv nodes and provide early lifetime support
 - Changes to qserv node configuration
 - native GPFS mounts are in place and NFS mounts have been removed
 - users were added to local group `docker` which has privileges equivalent to those of root
 - SUI nodes are unchanged; users have sudo and NFS mounts are in place
 - according to Igor, qserv has been working smoothly since 11/16/2017 and he's been able to ingest one catalog and is working on the last one.
- [IHS-606 Unexpected reboot of lsst-qserv-db16](#)
 - this is more wide-spread than just lsst-qserv-db16. There have been at least 3 other incidents where some or all qserv nodes spontaneously rebooted.
 - While analysis of system logs does confirm the reboot events, no patterns or correlations are apparent. Systems engineers have increased monitoring intensity while Igor performs dataset ingests. The problem has not recurred since 11/16/2017, 5 days ago as of this report.

Requests

- 1 created, 2 resolved, nothing particularly notable

Change Management





This process primarily targets requests that can be handled with current level of effort (LOE) resources. This process is also designed to detect and redirect items to the EVMS process if they exceed LOE resources.


Successful changes proceed through 5 stages:

1	Business Case & T/CAM Concurrence	Check that the submitter has stated a plausible business case and the relevant T/CAM agrees
2	Feasibility	Is the change well-formulated, address a project need and

3	Planning	A detailed implementation plan is created which takes into account impacts, resource needs, testing and verification.
4	Insertion	The plan is executed to implement the change.
5	Assessment	Verification of successful change, issues analysis, documentation and close-out.

Open Change Requests

Key	Summary	Process Stage†	Reporter	P	Created	Status
IHS-576	Configure slurm to accept jobs to use only partial nodes	Planning	Tim Morton		02/Nov/17	<ul style="list-style-type: none"> Gregory Daues will discuss with Tim, understand feasibility, use case & possible implementations
IHS-580	DM developers need a build/test environment that supports docker containers	Feasibility	Joshua Hoblitt		02/Nov/17	<ul style="list-style-type: none"> This request is orthogonal to the planned FY18 kubernetes deployment Determined that this change is significant enough that it needs to be inserted into the EVMS system. Will be discussed in the next T/CAM meeting.
IHS-595	iperf3 installed on lsst-xfer	Implementation	John Parejko		08/Nov/17	<ul style="list-style-type: none"> Scheduled for December
IHS-612	Implement debug and normal queues for developers on the verification cluster	Implementation	Yusra AlSayyad		16/Nov/17	<ul style="list-style-type: none"> Scheduled for mid-December

IHS-613	move /scratch files to holding area before deletion	closed	John Parejko		16/Nov/17	<ul style="list-style-type: none"> • John Swinbank approves, but considers it a nice-to-have rather than a must-have • will not implement. /project is the place for long-lived datasets. See https://developer.lsst.io/service/s/data_protection.html?highlight=purge#protection-capability

Heard on the Street This Week, but no Ticket Filed

- suggestion to deploy kubernetes on PDAC, it is assumed that this is being handled through the rolling-wave (EVMS) process
- tools for parallel programming in batch computing environment (gnu parallel and others)

Change Process Notes

- **NOTE: switching nomenclature to DM Change Request (LDMCR) rather than RFC, since it is assumed to stand for Request for Comment**
- Service Mgr (Paul) contacted corresponding T/CAMs to understand business need, obtain concurrence & document in each **LDMCR**
- Change process is being exercised, refined and socialized with T/CAMs as well as submitters

Problem Management

Report format under development

Interactions

1. **T/CAM interactions**
 - a. Numerous discussion with **John Swinbank** re. change requests IHS-576, IHS-595, IHS-612, IHS-613
 - b. Discussion with **Frossie Economou** re. IHS-580
 - c. Briefed PDAC members, including Fritz, on change process at last week's meeting
2. **ITSC**
 - a. Next meeting 11/21, coordinates sent to Don, Margaret, Kaylyn & Joel
3. **PDAC**
 - a. Last PDAC meeting 11/16/2017. Gregory was unavailable, so **Paul Domagala** led a discussion on the state of PDAC issues.
4. **Summit-base Tiger Team**
 - a. Suspended until after the first of the year since Jeff is in Chile. However, I'm linked in to Chile IT.
5. **Infrastructure**

a. Next meeting 12/7/2017

Other business

Action Items

From last week

New

