

Current-Infrastructure Meeting 2016-08-05

Date

05 Aug 2016

Attendees

- [Unknown User \(jalt\)](#)
- [Kian-Tat Lim](#)
- [Fabio Hernandez](#)
- [Unknown User \(mcarras2\)](#)
- [Greg Daues](#)
- [Unknown User \(xiuqin\)](#)
- [Jonathan Sick](#)
- [Fritz Mueller](#)
- [Igor Gaponenko](#)
- [Steve Pietrowicz](#)
- [Joshua Hoblitt](#)

Agenda

- Infrastructure updates:
 - Account migrations
 - Verification cluster
 - PDAC
- Upcoming activities: Acquisition Strategy Document
- Experiences with container cluster deployments

Notes

Account migrations to complete Mid Aug. Switchover to LDAP to follow.

- Default authentication method will be Kerberos, public key still available.
- Account creation process is changing: new email address that feeds to NCSA Jira
- Account creations and password resets using new system: <https://identity.ncsa.illinois.edu/>
- Keep using lsst-admin until this rollout is complete (August announcement)

Verification Cluster (Slurm) beta planned for next week

- Initially testing global stack install against large load and basic functionality
- Available for friendly users for completing acceptance testing
- Jobs launch from lsst-dev7. NFS home directories available on lsst-dev7.
- /scratch (GPFS) available on lsst-dev7 plus compute nodes. No quota. 180 purge. No backup.

Prototype Data Access Center (PDAC) formerly Integration Environment

- All database nodes still in transit. Arriving pre configured for DHCP per plans for Chile.
- All other nodes racked but not provisioned (efforts on verification cluster).
- Firewalls racked and networked. VPN and firewall configs remaining.
- Availability targeted week of the 26th

Upcoming Activities

Acquisition Strategy Document (Sept). Need input on hardware needs.

- DAQ test stand to arrive this fall/winter.
- L1 end-to-end testing structure
- Jim Parson's request for physical hardware for latency sensitive testing.
- I see the above 3 items along with the WAN simulator fitting together
- Retire all old LSST hardware at NCSA (include lsst10/lsstdb)
- Hardware expansions for PDAC (if needed)
- Nebula compute & storage expansion if needed (not likely)

DB Team (Fritz) needing dev machines

Kubernetes: Jonathan Sick

- <https://ltd-keeper.lsst.io/index.html#ops-guide>

- <https://github.com/lsst-sqre/ltd-keeper/tree/master/kubernetes>
- <https://github.com/lsst-sqre/ltd-keeper/blob/master/kubernetes/ssl-proxy-service.yaml>
- <http://blog.kubernetes.io/2016/07/openstack-kubernetes-communities.html>
- <http://kubernetes.io/docs/user-guide/petset/>

Kubernetes: Matias (OpenStack/Kubernetes/Spark)

- <https://github.com/sahandha/SparkClusterKubernetes>