# Hardware/Sysadmin/Puppet
April 23, 2024

- Hardware news
  - CMS and FermiGrid worker nodes (79 CMS, 21 FermiGrid): BIOS updates complete, except 5 sent back to vendor for repairs; CMS nodes in production, FermiGrid nodes in process.
  - 13 GPU servers:
    - 2 for FermiGrid installed, getting added to production.

- Major issues

- HPC
  - LQ downtime April 22–23 for software updates and other work
  - USQCD all hands meeting last week went well.

- Upgrading from SL7
  - Status:

OS version	SL7	EL8	EL9
# nodes	1252	711	1333
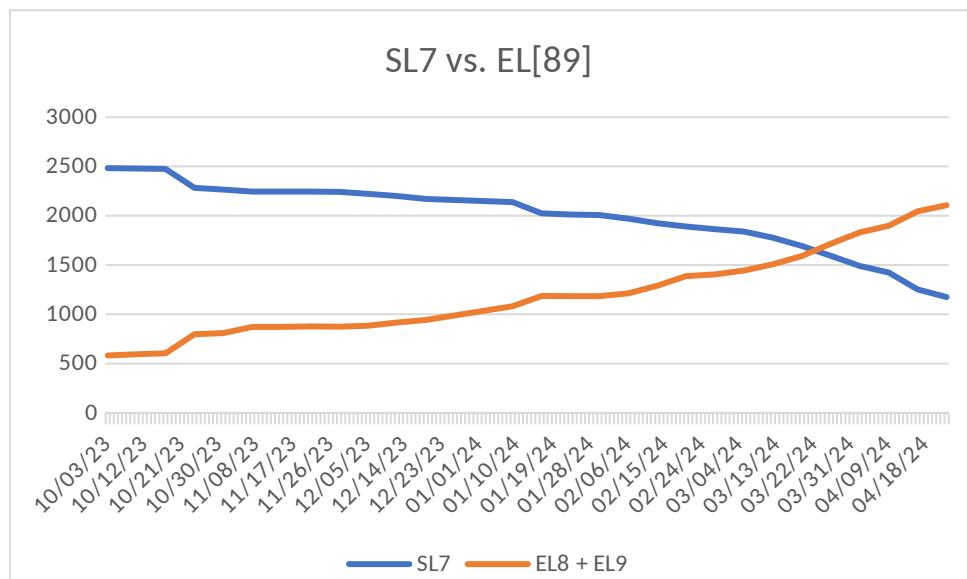
Other Activities

- OKD
    - Remaining okdprod1 workers upgraded to Alma9
    - Also resized the VMs because they were too small
    - Configured egress IP for dask-gateway to fix network problem
    - Troubleshooting issue with Gitlab runner
    - Troubleshooting a network issue reported by Brandon White

- Harbor
    - Configured rsnapshot for ssiregistry
    - Fixed an issue with one of the replication rules in all the clusters
    - Upgraded ssiregistry06 to Alma 9

- GPCF/RHV/Proxmox
    - Cleaned up a bunch of retired vms
        - Wrote script to help with this in the future

- Miscellaneous
    - Public dCache nodes are back to preferring IPv6 over IPv4
    - NOvA has their new RAID cards and network cards for novadaq-far-datadisk-04/05 (existing cards are not supported in EL8/9) in hand. Waiting on rsyncs to finish to begin actual work.
    - Build service migrated from jenkins02 to jenkins03, but there are problems with it that we may need Patrick Gartung to fix (and he is not available).
        - Ongoing issue. We may have to roll back.
    - BIOS firmware on cmswn{6001-6079} and fnpc{23101-23121} mostly reinstalled, except for a few stragglers (for various reasons)
    - Continuing to upgrade firmware on all Nexsan Garbo E60s

- SL7 Upgrades
    - 63 CMS and GP Grid worker nodes reinstalled with Alma 9
    - uboonegpvm01/02 reinstalled with Alma 9
    - uboonebuild03 allocated and installed, will replace the obsolete uboonebuild01/02
    - lssrv06 reinstalled with Alma 9
    - cmsccb02-new installed with Alma 9 to replace old node
    - anniegpvm02 reinstalled with Alma 9
    - jobsub04 reinstalled with Alma 9
    - stkendca{60-65a} reinstalled with Alma 9
    - cmsnoted1 reinstalled with Alma 9
    - marsaccelgpvm01 reinstalled with Alma 9
    - cephtest{2101,2102,2103} reinstalled with Alma 9

- Installs/Moves/Retirements
    - Excessed all the servers in Lab A/Mezz: decamxx, decamsrvr01

- Normal operations: 41 logged interventions last 3 weeks—replacing disks, rebooting hung systems, fixing corrupt RPM databases, retiring systems, fixing xinetd issues, clearing caches, fixing hung NFS mounts, fixing Puppet errors, etc.

HPC (High Performance & Parallel Computing

- New Lustre storage servers ordered for LQ cluster.
- LQ downtime April 22–23 for software updates.
- USQCD all hands meeting last week.