

Hardware/Sysadmin/Puppet February 20, 2024

- Procurement:
 - CMS and FermiGrid worker nodes (79 CMS, 21 FermiGrid) installed, getting added to production.
 - **Update:** 25 CMS tape dCache servers (NVMe SSD storage) turned over to SSA.
 - Disk storage:
 - **Update:** 100 CMS servers (dCache and EOS) turned over to SSA.
 - 25 servers for public dCache and Ceph turned over to SSA.
 - 13 GPU servers:
 - 2 for Wilson Cluster are done.
 - 2 for FermiGrid in progress.
 - 9 for EAF in progress.
 - 28 General CMS servers—installation process beginning.
- Third Wednesday tomorrow, 2/21:
 - Kernel updates/reboots; announcement sent
 - Puppet changes; notably, nftables will be default for EL8
- HPC:
 - Still investigating InfiniBand issues in Wilson Cluster
- Upgrading from SL7
 - Status:

OS version	SL7	EL8	EL9
# nodes	1891	683	705

Other Activities

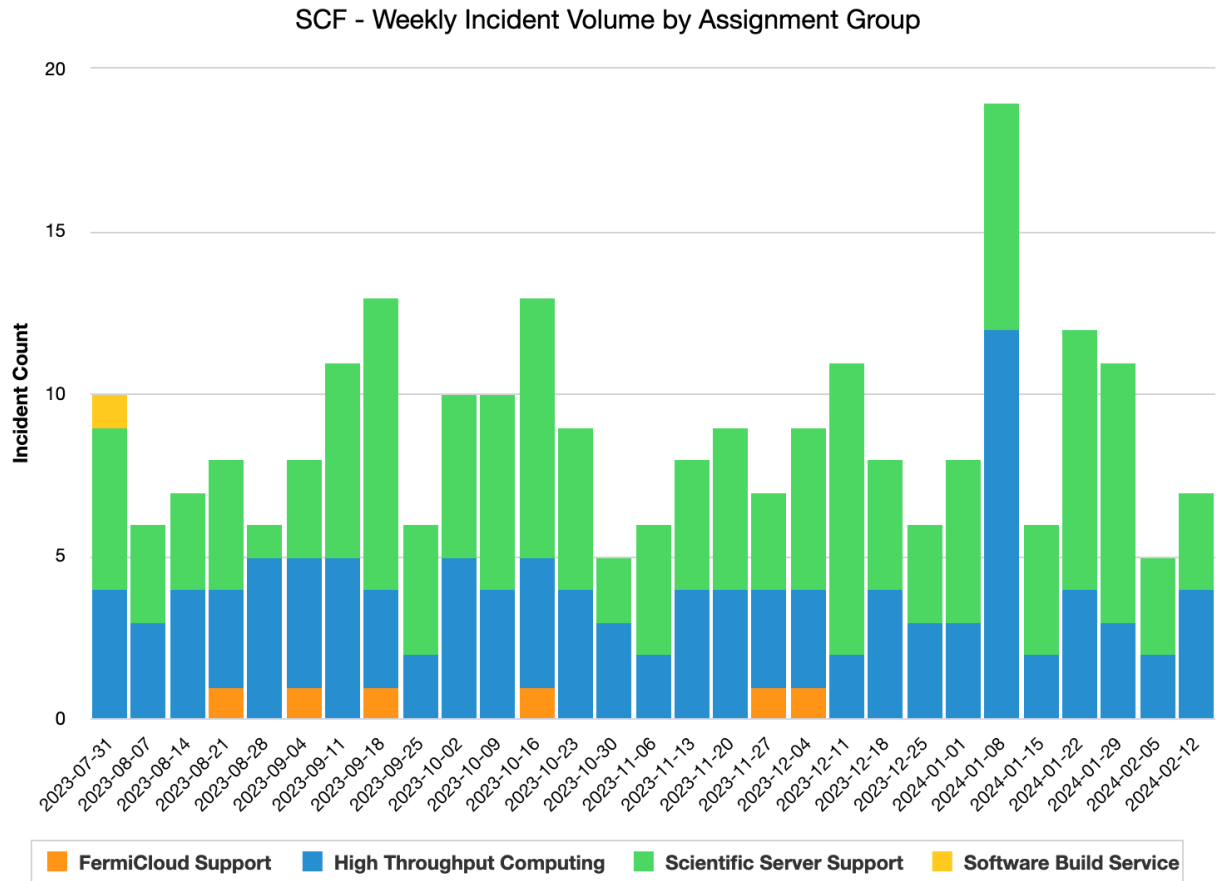
- OKD
 - okddev cluster migration to Alma9 complete
 - Working on installing new GPU servers
- Harbor container registry
 - Working on Alma 9 upgrade
 - Issues with nftables (firewall) may be resolved
- Proxmox/RHV/GPCF/CMS LPC interactive nodes
 - Adding two more hosts to the cluster to increase capacity
- Miscellaneous
 - ConsDB migration to python3 (needed for EL9 upgrade) is essentially complete
 - Some supporting automation still needs work
 - Unmounted /exp/nova/ana from all Nova offline systems. They are going to put that data into their /exp/nova/data area instead
 - Added seaquest ceph mounts to spinquest systems
 - Fixing email alert settings on many Nexsans which were using a legacy server
- SL7 Upgrades
 - novadaq-far-mgr-01
 - novadaq-far-mgr-03
 - novadaq-near-mgr-02
 - cmssrv228
 - cmssrv265
 - cmssrv266
 - cmssrv302
 - cmssrv39
 - scfspare1505
 - ssipuppetdb1
 - ecfspare12
 - cmssrvz17
 - cmssrvz18
 - gm2gpvm06,07,08
- Installs/Moves/Retirements
 - New servers ifdb11 and ifdb12 installed, working with DBAs on config
 - 40 new Alma 8 CMS LPC VMs installed as part of SL7 migration prep
 - New servers cmsstor301-380 installed and turned over
 - New servers cmseos2301-2313 installed and turned over

- fndcadb/fndcadbbbackup installed and turned over
 - Reinstalled cmslpc301-310 with bigger disk partitions
 - scfstor2301 now prepared to replace ecfstore
 - csresearch00 shut down (cannot be upgrade to el8/el9); replaced by csresearch08
 - New servers cmssrv2401-2428 being racked and prepped for installation
- Normal operations: 142 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.

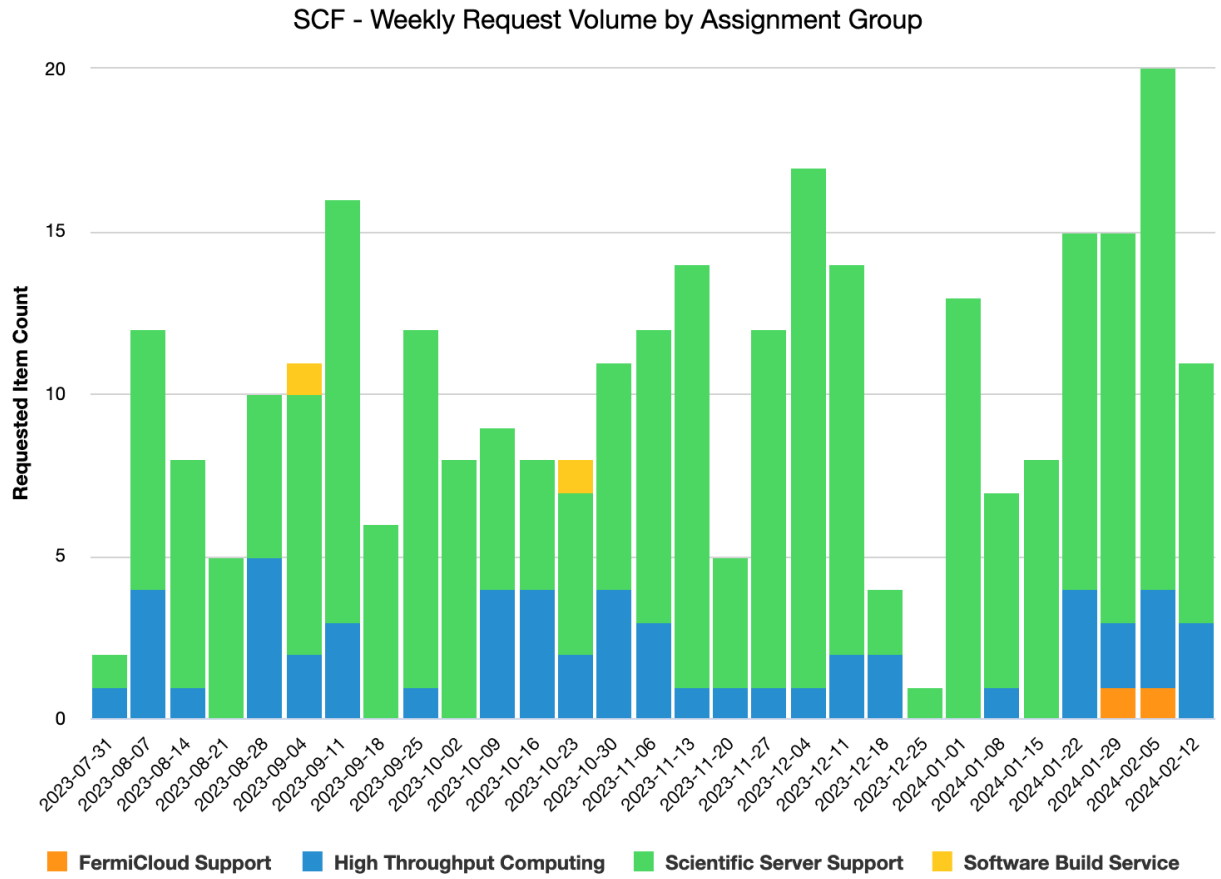
HPC (High Performance & Parallel Computing

- Steady running.

Incidents



Requests



Ticket Trend

