



Storage Services Administration

CSAID Ops May 14, 2024

Disk Storage Updates

<u>Shared (Public)</u>

- 15 pool servers were requested to be updated to Alma9. (35/153)
- A new storage group is requested for COMPASS Accelerator Modeling (**RITM2094668**).
- Wednesday 15th downtime 7:30AM. dCache portion will finish at 11:00AM. dCache including pnfs will not be available. (Patch shared dCache doors/Upgrade PostgreSQL to v15 for chimera/pnfs)

• <u>CMS</u>

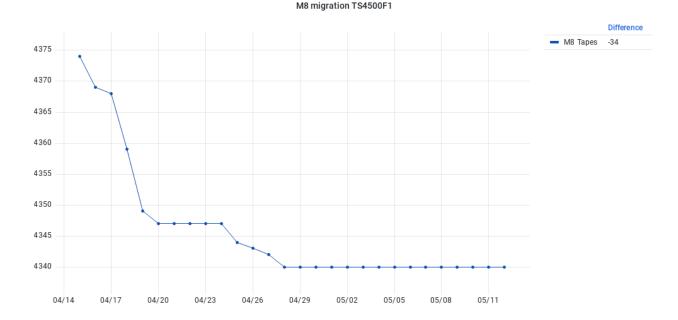
- EOS v5.2.23 upgrade Wednesday 15th. Currently adding FST nodes, 4 of 12 have been added. These are new nodes running Alma 9.
- EOS Alma 9 upgrade Migration to v5.2 is needed first but 12 new FST nodes are being added with Alma 9. (12/83 FST nodes, 3 MGM nodes).
- dCache Alma 9 upgrade 34 pool nodes under upgrading process (101/229)

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🗲 Fermilab

Tape Storage Updates

- No major issues
- Wednesday 15th downtime Enstore PostgreSQL upgrade to v15 Alma 8



M8 migration – 4340 tapes left (CMS waiting for LTO9 tapes for migration



Tape Storage Updates – Enstore Alma 8

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|--|-------|-------|--------------|---------------|---------------|
| Sprints | | t 3 E | NA8 Sprint 4 | ENA8 Sprint 5 | ENA8 Sprint 6 |
| > 💽 ENA8-1 Test Enstore in Alma 8 | | | | | |
| ENA8-2 Deploy Enstore in Alma 8 | | | | | |
| ENA8-20 Move Enstore services away from unsupported Alma 8 servers. DO | NE M | | | | |
| ENA8-5 Transition test mover in TS4500F1 to production environment in April. | NE 🕕 | | | | |
| ENA8-21 Transition test mover in TFF2 to production environment in May. | NE 🕕 | | | | |
| ENA8-22 Test Enstore PostgreSQL schema changes. | | | | | |
| ENA8-18 Puppetize Enstore movers for Alma 8 deployments in April. | ss 🐽 | | | | |
| ENA8-8 Upgrade all movers in TS4500F1 in April. | 00 🕕 | | | | |
| ENA8-15 Upgrade Enstore PostgreSQL servers during May downtime. | 00 🌍 | | | | |
| ENA8-19 Puppetize Enstore core services for Alma 8 deployments in May. IN PROGRE | ss 💿 | | | | |
| ENA8-9 Upgrade all movers in TFF1 in May. | TO DO | | | | |
| ENA8-12 Upgrade all movers in TS4500G1 in May. | TO DO | | | | |
| ENA8-16 Upgrade all movers in TS4500G2 in May. | TO DO | | | | |
| ENA8-14 Upgrade all movers in TFF2 in June. | TO DO | | | | |
| ENA8-6 Upgrade core Enstore services in TS4500F1 during June downtime. | TO DO | | | | |
| ENA8-7 Upgrade core Enstore services in TS4500G1 during June downtime. | TO DO | | | | |
| ENA8-17 Upgrade core Enstore services in TS4500G2 during June downtime. | TO DO | | | | |
| ENA8-11 Upgrade core Enstore services in TFF1 during June downtime. | TO DO | | | | |
| ENA8-13 Upgrade core Enstore services in TFF2 during June downtime. | TO DO | | | | |



CTA – Test

- Dev System Down
 - Seems like a tape drive issue and not CTA issue checking on this
 - Moving towards a "Nova" test transferring in a pattern like what Nova would do
- Repacked a full tape with basic repack CTA commands (NFS used as a place to stage files)
 - Working on doing another by hand test with PNFS
 - Using scripts from CERN also need to be tested
- Outlining a timeline for Alama9 upgrades



CEPH

- NAS2CEPHFS Migration Progress
 - Almost done. Finishing some small details

Reminder for experiments

- CSAID has set data volumes to read-only on March 20, 2024
- NAS source volumes are **reaching EOL** this 31st May 2024
- A general announcement was sent beginning of April and the last one on the 1st May.
- Contacting each experiment to double-check the status
- CEPHFS
 - All MDS's were reporting slow requests, which were caused by stuck processes on some clients. This also caused CephFS usage data to stop being sent to landscape

