



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>

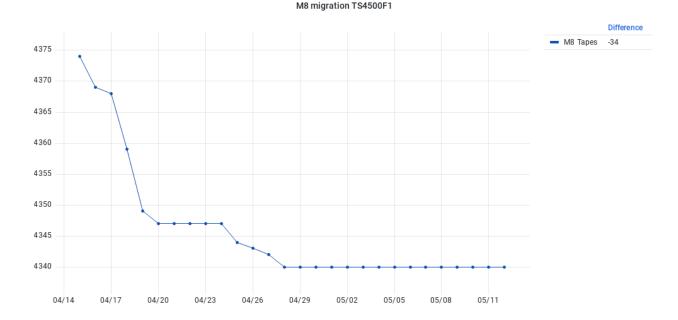
- EOS v5.2.23 upgrade Wednesday 15th. Currently adding FST nodes, 4 of 12 have been added. These are new nodes running Alma 9.
- EOS Alma 9 upgrade Migration to v5.2 is needed first but 12 new FST nodes are being added with Alma 9. (12/83 FST nodes, 3 MGM nodes).
- dCache Alma 9 upgrade 34 pool nodes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

		۶R		MAY	JUN
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

