Storage Services Administration

CSAID Ops

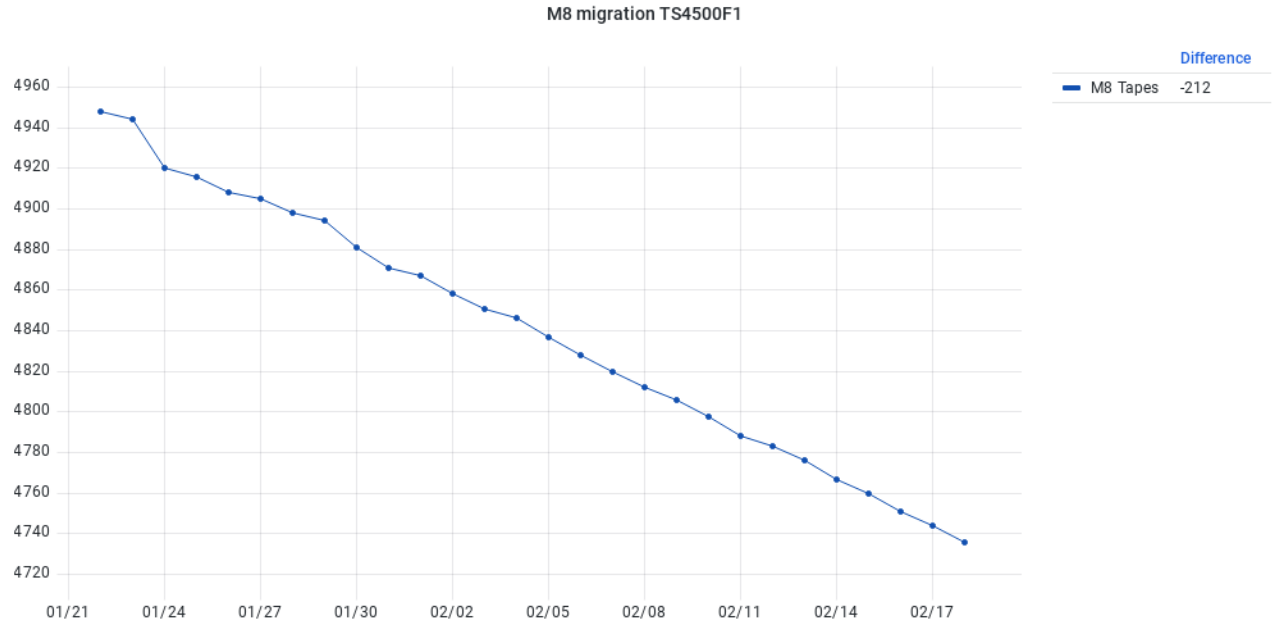
February 20, 2024

Disk Storage Updates

- **Shared (Public)**
  - New dCache pool servers pubstor230[1-12] are not being able to communicate due to network issues.
  - DUNE is requesting 1PB of persistent disk space and will request it in the next FCRSG but they are willing to explore the possibility of getting this ahead.
  - Wednesday 21st downtime: patch pools to interoperate with CVMFS better.
- **CMS**
  - First week of DC24 went well. 23.5GB/s throughput was observed last Wednesday.
  - CMS XRootD mainly worked fine with just a short-period timeout due to the underlying CMS dCache XRootD door timeout.
  - EOS test nodes are being replaced and puppetized. 90% done, just need certs.

Tape Storage Updates

- Wednesday 21st downtime. Upgrade drive firmware on media changer movers.

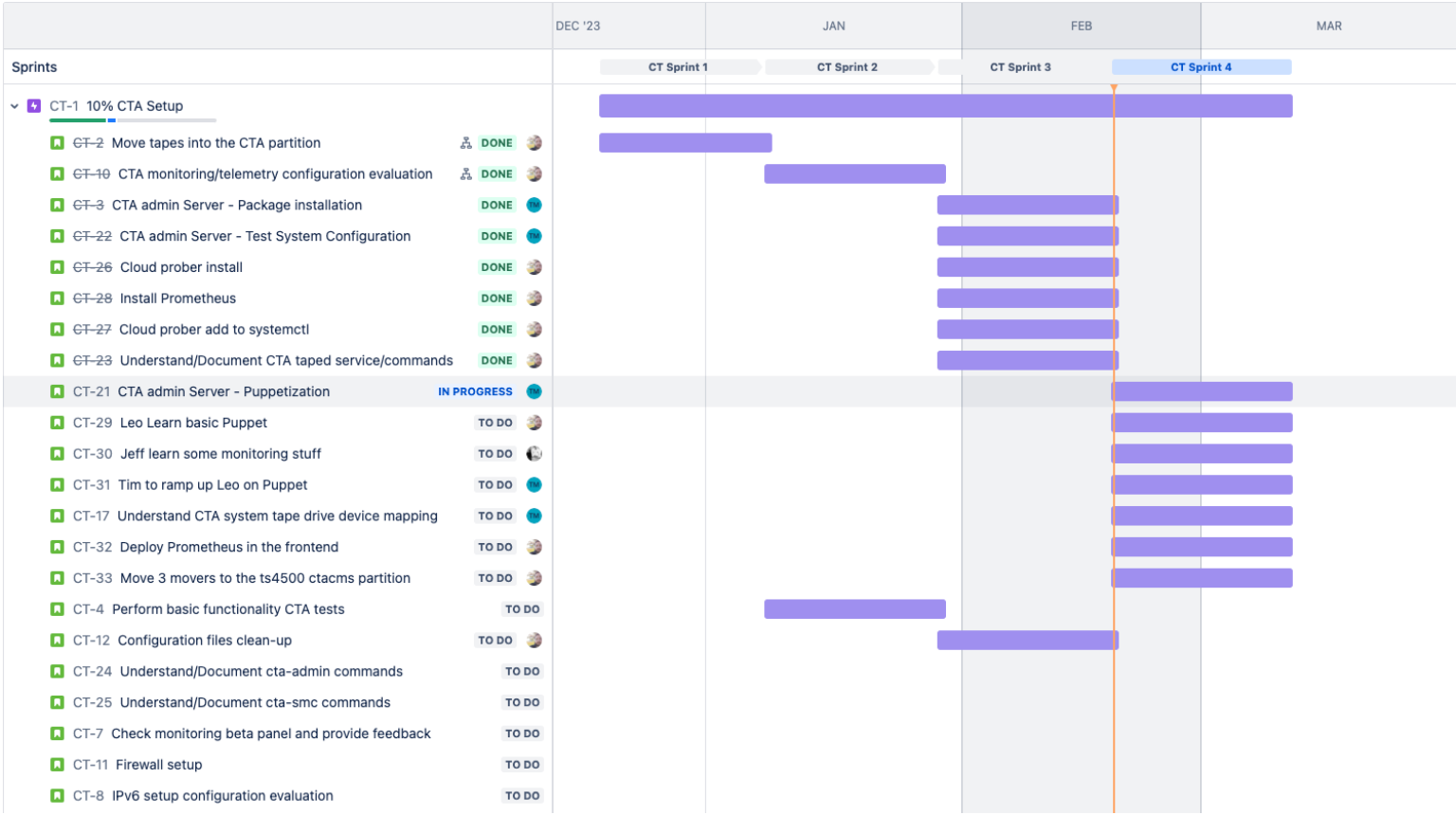


M8 migration – 4736 tapes left

Tape Storage Updates

- Enstore Alma 8 Migration (Work planned through Mar 11th):
  - Fix test system configuration.
  - Test new Alma 8/Enstore RPMs on one mover. (Early tests over the RPM are being performed)
  - Basic mover test set over the test system.

CTA


DEC '23
JAN
FEB
MAR
Sprints
CT Sprint 1
CT Sprint 2
CT Sprint 3
CT Sprint 4
CT-1 10% CTA Setup
~~CT-2~~ Move tapes into the CTA partition DONE
~~CT-10~~ CTA monitoring/telemetry configuration evaluation DONE
~~CT-3~~ CTA admin Server - Package installation DONE
~~CT-22~~ CTA admin Server - Test System Configuration DONE
~~CT-26~~ Cloud prober install DONE
~~CT-28~~ Install Prometheus DONE
~~CT-27~~ Cloud prober add to systemctl DONE
~~CT-23~~ Understand/Document CTA taped service/commands DONE
CT-21 CTA admin Server - Puppetization IN PROGRESS
CT-29 Leo Learn basic Puppet TO DO
CT-30 Jeff learn some monitoring stuff TO DO
CT-31 Tim to ramp up Leo on Puppet TO DO
CT-17 Understand CTA system tape drive device mapping TO DO
CT-32 Deploy Prometheus in the frontend TO DO
CT-33 Move 3 movers to the ts4500 ctacms partition TO DO
CT-4 Perform basic functionality CTA tests TO DO
CT-12 Configuration files clean-up TO DO
CT-24 Understand/Document cta-admin commands TO DO
CT-25 Understand/Document cta-smc commands TO DO
CT-7 Check monitoring beta panel and provide feedback TO DO
CT-11 Firewall setup TO DO
CT-8 IPv6 setup configuration evaluation TO DO

CEPH

- NAS2CEPHFS Migration Progress

*3rd Wednesday Downtime

Experiments	Notification	Cut- over day
nusoft, minerva, minos*	12/06/23	12/20/23*
fermigrid-fermiapp,lbnewc(dune), microboone	**02/01/24**	**02/21/24***

  - *Additional steps need to be done for Minos and Minerva.*
  - *Nusoft is on hold – TBC*

- We will set data volumes to read only on March 20, 2024. A general announcement was sent on 02/01.
- We keep reminding experiments that NAS source volumes are reaching EOF this May 2024

- **CEPHFS**
- Network problem caused many clients to lose connection to CEPH. Ssi unmounted/remounted the affected clients. Updated the cephfs session autoclose time from 300 to 600 seconds.
- EAF couldn't read files in cephfs, which ended up being due to having inconsistent MTU (maximum transmission unit) set for the different CEPH hosts.