

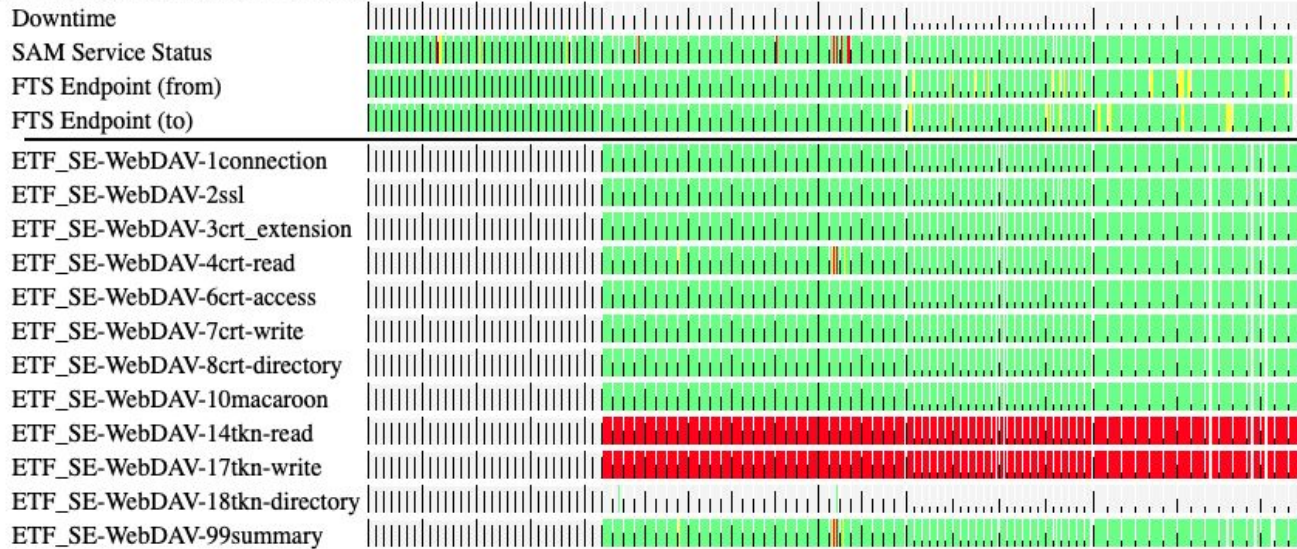
Status of CMS token testing

Katy, 30/06/23

Storage endpoints

CMS already have non-production token tests running in the SAM test environment, for (e.g. at Tier 1) webdav, root and the AAA proxies.

webdav.echo.stfc.ac.uk / WEBDAV ←



Example, for the webdav.echo.stfc.ac.uk endpoint

Token tests have been running for much of 2023

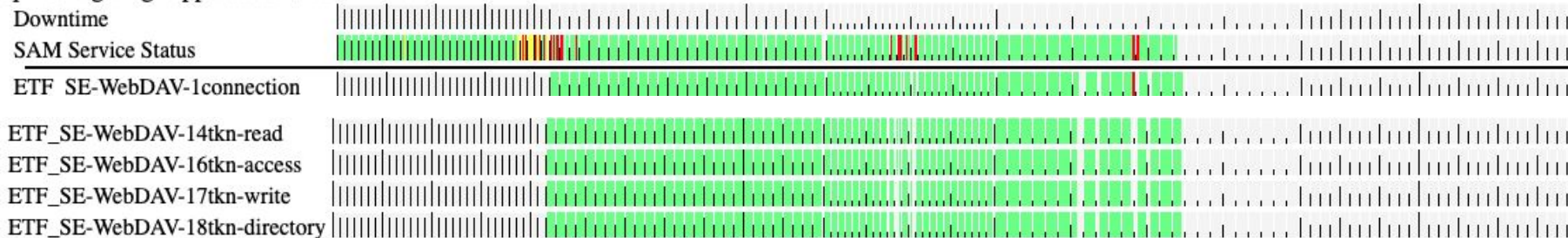
Tier 1 endpoints in test with tokens

- webdav.echo.stfc.ac.uk / WEBDAV (read/write)
 - xrootd.echo.stfc.ac.uk / XROOTD (read/write)
 - ceph-gw10.gridpp.rl.ac.uk / XROOTD (read)
 - ceph-gw11.gridpp.rl.ac.uk / XROOTD (read)
 - cms-aaa-manager01.gridpp.rl.ac.uk / XROOTD (read)
 - antares.stfc.ac.uk / XROOTD (read/write)
- } AAA

Non-production tests

The production token tests are all currently failing...but James Walder has them passing on development gateway ceph-dev-gw4:

ceph-dev-gw4.gridpp.rl.ac.uk / WEBDAV



- Our cunning plan was to test the config used above on one of the AAA proxy gateways, since this is a CMS-only service, there are two machines, and we would observe quickly if it worked.
- Unfortunately, the config required for XROOTD token tests is different to the config required for WEBDAV token tests.
- XROOTD tests are now running on ceph-dev-gw4 and James will investigate.

Token roll-out

- WEBDAV type tests are passing in the dev environment
- Could be rolled out to webdav endpoints
- Would require a change control
- Do we need to wait for ATLAS and LHCb to be ready?

CMS site approach

- Work through the sites in batches by storage type, as functionality becomes available
- Currently, only sites with native XRootD backend have been requested to make changes
 - Sites will receive GGUS tickets with instructions relevant to their storage
 - CMS Facilities team will assist
- To be completed by the **end of 2023**

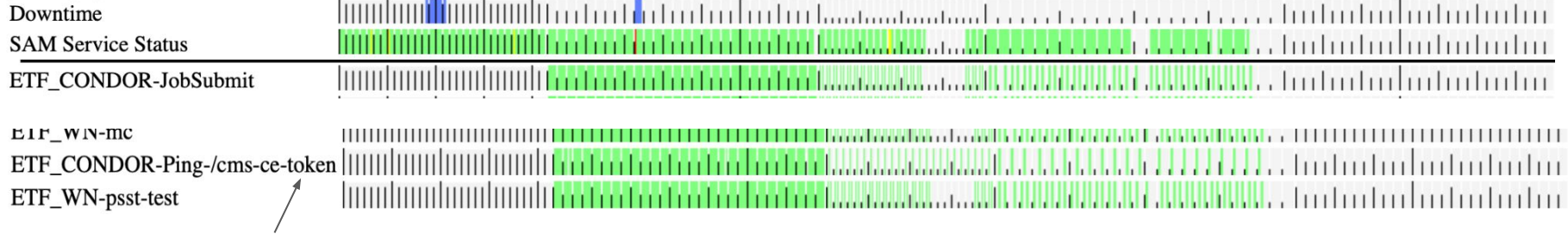
Tier-2 status

- IC
 - dCache site, needing to upgrade dCache version before addressing tokens
- RALPP
 - dCache site, needing to upgrade dCache version before addressing tokens
 - (Chris will do the upgrade, 7.2 to 8.2 in ~2 weeks)
- Brunel
 - DPM site (to be migrated?)
 - Raul will address tokens on the XRootD server next week
 - He has also been testing for CE tokens (wait for ARC 7)
- Bristol
 - Native XRootD site
 - Tests are green!

A word on CE token tests (and factory job submission)

- These are in production for HTCONDOR-CE (IC, Bristol)
 - Falls back to x509 if token submission fails
- And in pre-production for ARC-CEs (T1, RALPP, Brunel)
 - Several more weeks before entering production

lcgce02.phy.bris.ac.uk / HTCONDOR-CE



CE test marked
'token' passing at IC
and Bristol

Summary

- CMS have established token testing as part of the SAM tests
- Sites are being requested to make changes in batches, depending on storage system
- Some storage to be upgraded/migrated first