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
Downtime	10000100001000010111111111111111111111	webday.echo.stfc.ac.uk
SAM Service Status	Willing and the second s	
FTS Endpoint (from)	luuuluuuluuuluuuluuuluu teeteeteeteeteeteeteeteeteeteeteeteetee	endpoint
FTS Endpoint (to)	lanalanalanalanalatin tertertertertertertertertertertertertert	
ETF_SE-WebDAV-1connection	100011000110001100011001100110011001001	
ETF_SE-WebDAV-2ssl	humhumhumhumhtertertertertertertertertert.	
ETF_SE-WebDAV-3crt_extension	hundhundhundhreiterterterterterterterten handandanden bereiterterter.	
ETF_SE-WebDAV-4crt-read	hundhundhundhreiterbeiterbeiterb <mark>ie</mark> terfandaminntmationstrukterbieter	
ETF_SE-WebDAV-6crt-access	hundhundhundhundhurburburburburburburburburburburburburbu	
ETF_SE-WebDAV-7crt-write	hundhundhundhreitertertertertertertert	
ETF_SE-WebDAV-8crt-directory	hundhundhundhreitertertertertertertertentandandanden bereiterterter.	
ETF_SE-WebDAV-10macaroon	hundhundhundher briterbeiterb	Token tests have
ETF_SE-WebDAV-14tkn-read		been running for
ETF_SE-WebDAV-17tkn-write		much of 2023
ETF_SE-WebDAV-18tkn-directory	///////////////////////////////////////	
ETF_SE-WebDAV-99summary	hundhundhundhterterterterb <mark>i</mark> etert	

Tier 1 endpoints in test with tokens

- webdav.echo.stfc.ac.uk / WEBDAV
- xrootd.echo.stfc.ac.uk / XROOTD
- ceph-gw10.gridpp.rl.ac.uk / XROOTD
- ceph-gw11.gridpp.rl.ac.uk / XROOTD
- cms-aaa-manager01.gridpp.rl.ac.uk / XROOTD
- antares.stfc.ac.uk / XROOTD

(read/write) (read/write) (read) (read) (read) (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

Downtime	MUNIMUM MUNIMUM Intertected entertected and and and and a construct a construction for technology for technology
SAM Service Status	MANALANA ANA ANA ANA ANA ANA ANA ANA ANA
ETF SE-WebDAV-1connection	humhumhumhumhter contractor for the function of the second state of the second state of the function for the function for the function of the second state of the seco
ETF_SE-WebDAV-14tkn-read	hundnuduuduudufoofoofoofoofoofoofoofoofoof
ETF_SE-WebDAV-16tkn-access	hundhundhundhurdreterterterterterterterterten Gaaraan ander er er er er er er er er er terterterterterterter
ETF_SE-WebDAV-17tkn-write	huuduuduuduuduuduuduuduuduuduuduuduuduud
ETF_SE-WebDAV-18tkn-directory	y hundhundhundhundher ter ter ter ter ter ter ter ter tan and an and the second and the ter ter ter ter ter ter ter ter ter te

- 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

Downtime	
SAM Service Status	han han han han han har ber ber ber ber ber ber han han den stende som er som er som er som er som her ber ber ber ber ber ber ber ber ber b
ETF_CONDOR-JobSubmit	
EIF_WN-mc	
ETF_CONDOR-Ping-/cms-ce-toke	$\mathbf{n} [$
ETF_WN-psst-test	

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