Second EGI campaign was launched on Nov 3

- HTCondor CE v5 + condor v9.0.19 ← using the WLCG repository
- It allows X509 / VOMS proxy identities (no FQANs) to be mapped via the SSL method
  - Clients relying on SSL mappings also need to use a recent condor version
- A fatal flaw was then discovered at a few sites: the desired fallback from SSL to GSI did not work
  - Somehow this had not been spotted in the many tests…
- The fix turned out to be quite non-trivial and took a few days to design and test – thanks very much to Jaime Frey from the HTCondor Team!
- The campaign then was restarted with v9.0.20 on Nov 17
- Out of 53 tickets, 10 are solved, many in progress, several on hold
  - Most sites will work on this as of early next year – reminders will be sent
  - Some sites prefer upgrading to EL9 at the same time, but APEL client & parsers not yet available for that platform → to be followed up with priority

More details in Sep GDB update
Computing (2)

- Third EGI campaign to be launched in the spring of 2024
  - When all customers of a CE can be mapped through tokens or SSL, i.e. no longer need GSI support, the CE can be upgraded to HTCondor CE $\geq$ v23 with condor $\geq$ v23
    - To get all HTCondor CEs on fully supported versions
    - Those recent versions also support the plug-in call-out for EGI Check-in tokens
    - Mind this setting for APEL: `USE_VOMS_ATTRIBUTES = True`
IAM service developments

- Upgrade tests for v1.8.3 ran into some setbacks
  - Issues encountered at CERN that were not seen at CNAF
  - More fixes were then deemed important enough still to be included
  - Latest release candidate was tagged on Monday and tested OK on Tuesday!
  - We still intend to do the upgrades this year

- An instance for the “dteam” VO became available on Dec 7
  - The first instance on Kubernetes at CERN
    - Other instances are still on OpenShift
  - EGI broadcast with LSC file details
  - VOMS client details will also be published soon
  - Users are imported from the VOMS-Admin service until its retirement
    - Expected to happen in a few weeks!

- Other small VOs at CERN will also get their IAM instances
  - As of early 2024, to allow them to get their token clients into production ASAP
  - VOMS(-Admin) service EOL == CentOS 7 EOL, or earlier if possible
IAM v1.8.1 security update broke ALICE & ATLAS token renewal
- The clients turned out to have been making use of a behavior that was only allowed due to the bug that got fixed
  - Addition of scopes by the client owner, but not consented to in the registration
- The clients had to be re-established
  - Easy to do, but with unwanted operational repercussions
- The matter was debated, but currently moot, because enforced by the underlying third-party framework

A lot of issues and PRs have piled up for the WLCG token profile
- Implementors know where to deviate from what v1.0 specifies
- An updated version is expected early next year: v1.x or even v2.0

The CHEP paper has been written
- Some minor comments were received, still to be addressed
A new WG was proposed and has **started** in the meantime: the **Grand Unified Token profile WG**
- To try to establish a common base profile for AARC / EGI Check-in, SciTokens and WLCG tokens
  - In particular to determine the VO, groups and roles of tokens
- Each profile can then have its own extensions

The **Token Trust & Traceability** WG has discussed its scope and a first “test case” was proposed: XRootD token how-to
- Configuration
- Logs
- Debugging
- Testing → the “dteam” VO should also serve token use cases!
  - IAM tokens could be used in parallel with EGI Check-in tokens for “dteam”
  - The “wlcg” VO hosted at CNAF is for developers
DC24 workshop & DOMA (BDT) meetings

- Tokens featured in several workshop presentations – in particular:
  - FTS & Tokens
  - Storage & Tokens

- The DOMA meeting of Dec 6 had the Rucio presentation
  - ATLAS and CMS token behavior in DC24 should be the same by design, as there will not be much flexibility yet in the Rucio token configuration

- Though tokens are still deemed an optional ingredient in DC24, the plan is to have them used where possible right from the start
  - When source & destination of a transfer both support tokens
  - If a given SE fails transfers due to its handling of tokens, it can be switched to VOMS proxies instead
  - We should thus gain operational experience at a big scale and discover which things need to be improved where for the required reliability etc.
    - There are no concerns about token rates at this time
The main token objectives at this time are still about:
- Data transfers – preparations for DC24
- Computing – HTCondor CE versions that no longer support GSI

There are 2 new WGs to try and help simplify what developers and sysadmins are confronted with to support tokens:
- The **GUT profile** WG aims to give relevant profiles a common base
- The **TTT** WG aims to provide recipes for dealing with token matters

To be continued…