HTCondor CE campaign on EGI

GDB, 11 October 2023

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v1.0
Second EGI campaign to be launched in the next few weeks

- HTCondor CE v5 + condor-9.0.19 ← when available in UMD-4 (CentOS 7 only)
- It allows X509 / VOMS proxy identities (no FQANs) to be mapped via the SSL method
  - No wildcards needed
  - Clients relying on SSL mappings also need to use a recent condor version
- 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 v6 with condor >= 10.7.x
  - Those recent versions also support the plug-in call-out for EGI Check-in tokens
  - Mind this HTCondor (CE) setting for APEL: USE_VOMS_ATTRIBUTES = True
  - Available for CentOS 7 and EL 9 (→ UMD-5)

EGI Check-in token details were presented in the September GDB

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More configuration details

- To allow a proxy to be used for SSL, a CE client needs these settings:
  - `AUTH_SSL_USE_CLIENT_PROXY_ENV_VAR = True`
  - `AUTH_SSL_CLIENT_CADIR = /etc/grid-security/certificates`
  - `SEC_CLIENT_AUTHENTICATION_METHODS = FS, TOKEN, SCITOKENS, SSL, GSI`

- The HTCondor CE needs the following settings:
  - `AUTH_SSL_ALLOW_CLIENT_PROXY = True`
  - `AUTH_SSL_SERVER_*` and `AUTH_SSL_CLIENT_*` variables need to be set to the host certificate, key and grid certificates directory
  - `SCHEDD.SEC_WRITE_AUTHENTICATION_METHODS = FS, TOKEN, SCITOKENS, SSL, GSI`
  - `SCHEDD.SEC_READ_AUTHENTICATION_METHODS = FS, TOKEN, SCITOKENS, SSL, GSI`

- A mapfile must be added in `/etc/condor-ce/mapfiles.d/` and have entries for the desired proxy identities to be mapped, in either of these formats:
  - `SSL "/DC=…/C=…/O=…/CN=…"` account ← hardcoded DN
  - `SSL /\DC=…/\C=…/\O=…/\CN=…/` account ← can use regular expressions

Remove GSI to verify that SSL mappings really work and/or check the CE logs
News for this GDB

- UMD-5 (EL9) is based on a completely new, modern architecture that will save significant effort and has largely been tested, but its delivery has been stuck for a while now.

- UMD-4 (CentOS 7) has been moved into the same infrastructure and is affected similarly.

- Significant development for EGI officially is not funded from July 2023 until January 2024.

- For now, we can use the WLCG repository instead.

- But should we rather wait until the HI Run has finished?