

2022-06-20 notes

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General information

Middleware

UMD

- CentOS7 is the recommended OS until UMD5+CS9 are released
- In case you have already some machines with C8, migration to CentOS Stream 8 is recommended
- CS9 will be supported by CERN and FNAL
- middleware: recommended path is C7->CS9 (we will skip CS8)

- UMD Infrastructure:
 - testbed and scripts to test the new workflows
 - working on the jenkins + nexus interactions
 - in more detail using the nexus API we can create, upload sign rpm's and deb packages
 - working on the implementation of this into jenkins

Operations

ARGO/SAM

- Integration of EOS storage element: [GGUS 154335](#)
 - We are testing the monitoring probe for the EOS Storage endpoints ([GGUS 156251](#)) which uses the XRootD interface (see <https://github.com/EGI-Federation/nagios-plugins-xrootd>)
 - On GOCDB the EOS endpoints are registered as XrootD service endpoints.
 - In order to allow the proper execution of the probe, we would like you to:
 - enable the ops VO on your endpoints
 - for each EOS (Xrootd) service endpoint add the following Extension Property:
 - Name: XROOTD_URL
 - Value: XRootD base SURL to test (the path where ops VO has write access, for example: [root://eospps.cern.ch:1094/eos/pps/](https://eospps.cern.ch:1094/eos/pps/) or similar)
 - Please do the same even if you provide an XRootD interface with a different type of storage element.
 - [Test results on the devel instance](#)
- Released new ARGO UI (2.10) in production <https://argo.egi.eu/egi/Critical>
 - NEW trends pages
 - Trends about flapping services /groups <https://argo.egi.eu/egi/Critical/trends/flapping>
 - Trends about flapping services /groups group by tag <https://argo.egi.eu/egi/Critical/trends/tags-flapping>
 - Trends about services statuses <https://argo.egi.eu/egi/Critical/trends/status>
 - Trends about tags <https://argo.egi.eu/egi/Critical/trends/tags>

- Page reporting all the sites that fail the tests: <https://argo.egi.eu/egi/issues/Critical>
- Page reporting the status by metric: <https://argo.egi.eu/egi/Critical/metrics>

FedCloud

Feedback from DMSU

New Known Error Database (KEDB)

The KEDB has been moved to Jira+Confluence: <https://confluence.egi.eu/display/EGIKEDB/EGI+Federation+KEDB+Home>

- problems are tracked with Jira tickets to better follow-up their evolution
- problems can be registered by DMSU staff and EGI Operations team

Monthly Availability/Reliability

- Under-performed sites in the past A/R reports with issues not yet fixed:
 - AsiaPacific: https://ggus.eu/index.php?mode=ticket_info&ticket_id=156745
 - **TW-NCUHEP**: webdav failures
 - NGI_UK: https://ggus.eu/index.php?mode=ticket_info&ticket_id=156742
 - **RAL-LCG2**: authz issues with the webdav endpoint
 - they provide an object store endpoint, and the commands executed by the webdav probe don't work ([GGUS 157748](#)). The webdav probe is not maintained any more, anyway we are discussing a possible modification.

Under-performed sites after 3 consecutive months, under-performed NGIs, QoS violations: (**May 2022**):

- NGI_NDGF: https://ggus.eu/index.php?mode=ticket_info&ticket_id=157718
 - **SE-SNIC-T2**: webdav failures due to permission problems in the ops directory, SOLVED.
- NGI_NL: https://ggus.eu/index.php?mode=ticket_info&ticket_id=157716
 - **BEgrid-ULB-VUB**: instability issues were solved.
- ROC_LA: https://ggus.eu/index.php?mode=ticket_info&ticket_id=157717
 - **ICN-UNAM**

sites suspended:

Documentation

- MediaWiki in read-only mode
- content to be moved to different locations (confluence and <https://docs.egi.eu/>)
- confluence space hosting policies and procedures: [EGI Policies and Procedures](#)
 - [EGI Federation Operations](#)
 - Change Management, Release and Deployment Management, Incident and Service Request Management, Problem Management, Information Security Management
- [Manuals](#), How-Tos, Troubleshooting, FAQs:
 - huge number of material need to be reviewed and in case updated when moved to the new place
 - location will be <https://docs.egi.eu/providers/operations-manuals/>

IPv6 readiness plans

- please provide updates to the IPv6 assessment (ongoing) https://wiki.egi.eu/w/index.php?title=IPv6_Assessment
- if any relevant, information will be summarised at OMB

Transition from X509 to federated identities (AARC profile token)

- WLCG is testing aai tokens (WLCG profile) as authz system for accessing the middleware, with Indigo IAM as a replacement of VOMS
- In Feb 2022 OSG will fully move to token-based AAI, abandoning X509 certificates
- HTCondorCE: [replacement of Grid Community Toolkit](#)
 - The long-term support series (9.0.x) from the CHTC repositories will support X509/VOMS authentication through ~~Sep 2022~~ Jan 2023
 - Starting in 9.3.0 (released in October), the HTCondor feature releases does NOT contain this support
 - EGI sites are recommended to stay with the long-term support series for the time being

What we need to know in preparation of the transition:

Checking the middleware compliance with the AARC Profile token:

- **ARC-CE**: https://ggus.eu/index.php?mode=ticket_info&ticket_id=154958
 - So far focusing on the WLCG profile, which is built upon the AARC profile, so this should cover everything.
- **Argus**: https://ggus.eu/index.php?mode=ticket_info&ticket_id=154959
 - no clear plans yet
- **dCache**: https://ggus.eu/index.php?mode=ticket_info&ticket_id=154960

- dCache does support authorisation statements, as described by WLCG AuthZ-WG's JWT profile.
- supporting AARC-style group membership statements is on the TODO list
- **DPM:** https://ggus.eu/index.php?mode=ticket_info&ticket_id=154961
 - The DPM is in maintenance mode to be phased out by ~2024. There is no effort for implementing new functionality, which furthermore would be short-lived.
- **HTCondor-CE:** https://ggus.eu/index.php?mode=ticket_info&ticket_id=154962
 - HTCondor-CE supports WLCG tokens, so it should work also with the AARC profile token. Some tests are needed.
- **STORM:** https://ggus.eu/index.php?mode=ticket_info&ticket_id=154963
 - Only the StoRM-WebDAV component supports token-based authorization.
 - At the moment only scopes and groups foreseen by the WLCG Token Profile are recognized by the authorization policy engine, but adding support for the AARC profile is planned.
 - At the moment there is no plan to add token support to the SRM component.
 - Finalizing a specification for a Tape REST API to replace the functionally-equivalent SRM one.
 - That implementation will have token support.

Circulated a survey to check the awareness and readiness of users communities:

- see details in the notes of past meetings

Migration of the VOs from VOMS to Check-in

- transition period where both X509 and tokens can be used
 - delays in updating the GRID elements to the latest version compliant with tokens
 - not all if the middleware products can be compliant with tokens at the same time
 - the same VO has to interact with element supporting different authentications

Testing HTCondorCE and AARC Profile token

- INFN-T1 did some tests with the AARC Profile token using its HTCondorCE endpoints
 - [Configuring authentication](#) on HTCondorCE
 - [HTCondor CE token configuration tips](#) (by INFN-T1)
- dteam VO registered in Check-in/Comanage:
 - Entitlements:
 - `urn:mace:egi.eu:group:dteam:role=member#aai.egi.eu`
 - `urn:mace:egi.eu:group:dteam:role=vm_operator#aai.egi.eu`
- The HTCondorCE expects to find in the token the scope claim to authorise the jobs submission
 - at the moment Check-in doesn't release this claim: it will after the migration to Keycloak technology replacing MitreID

WLCG Campaign

- WLCG started the CE Token support campaign
 - <https://twiki.cern.ch/twiki/bin/view/LCG/CEtokenSupportCampaign>
 - sites should upgrade the CEs to the version supporting tokens, and configure tokens

Timeline

- CEs to fully support tokens by the end of the year (Dirac for the job submission)
- data management services (dCache, STORM, FTS, Rucio, Dirac) might need a few years before droppin X509/VOMS support

Hackathon events

- in July between CE developers and Check-in
- In September, organised by WLCG, with HTCondorCE and ARC-CE to mostly investigating data staging issues (see [GDB introduction](#))

DPM Decommission and migration

- DPM supported until June 2023
- Sites are encouraged to start the migration to a different storage element since the process will take time
 - choosing the new storage solution depends on the expertise/experience of the sites and on the needs of the supported VOs
- DPM provides a migration script to dCache ([migration guide](#))
 - Transparent migration
 - Migrate just catalog (database) and keep files untouched
 - both SE store files on posix filesystem
- Migration in three steps
 - verify the DPM data consistency
 - no downtime needed
 - the operation can last several days or some weeks
 - DPM dump and dCache import
 - downtime lasting about 1 day
- In September we are going to open tickets to the sites

New benchmark replacing HEP-SPEC06

The benchmark HEPSCORE is going to replace the old Hep-Spec06

- preparing plans with WLCG and the EGI Accounting team for deploying the new benchmark

- transition period where both the benchmark will be published and used to normalise the data
 - to allow comparison between the two kind of data
- APEL is working on a version where the accounting records contains 2 benchmarks

AOB

EGI Conference 2022: <https://indico.egi.eu/event/5882/overview>

pre-registrations are open

Next meeting

Jul or Aug