2022-07-11 notes

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/ 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

- EGI Check-in migration from MitreID to Keycloak:
  - testing and coordination of the sites for implementing the new settings
  - guide for migration of generic clients to Keycloak
  - example of changes in the OpenStack configuration

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 evoulution
- 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: (**Jun 2022**):

- NGI_IT: https://ggus.eu/index.php?mode=ticket_info&ticket_id=157943
  - **INFN-COSENZA**: in downtime since April for repair and maintenance
- NGI_SI: https://ggus.eu/index.php?mode=ticket_info&ticket_id=157944
  - **SiGNET**: intermittent failures on ARC-CE; solved by increasing to 1GB the memory limit used by the test job

sites suspended: ICN-UNAM (ROC_LA)

Verify configuration records

On a yearly basis, the information registered into GOC-DB need to be verified. NGIs and RCs have been asked to check them. In particular:

1. **NGI managers should review the people registered and the roles assigned to them, and in particular check the following information:**
   - E-Mail
   - ROD E-Mail
   - Security E-Mail

NGI Managers should also review the status of the "not certified" RCs, in according to the RC Status Workflow;

1. **RCs administrators should review the people registered and the roles assigned to them, and in particular check the following information:**
   - E-Mail
   - telephone numbers
   - CSIRT E-Mail

RC administrators should also review the information related to the registered service endpoints.

The process should be completed by July 29th.

List of tickets on **GGUS search page**.

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 Keykloak 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

Aug?