Summary and prospects

DIRAC THE INTERWARE

Federico Stagni + Andrei Tsaregorodtsev

virtual DUW 2022

Participation

- 63 registered users
  - effectively max 46 attending at the same time
    - few more participants on Monday, especially on the first part
    - "the usual suspects", and new faces
    - a few less participants than last year's, but tbh we did very little publicity
  - participation from the Americas of course problematic for the timezone

- ## AuthN, AuthZ, SSO
  - v8.0: initial support will be added
  - for a full support, v8.1 will be needed
  - several issues open
  - Some concerns raised about the fact that HTCondor EOL for x509 support
- ## Interfaces
  - WebApp and COMDIRAC updated to py3
  - RESTDirac extension is not fully maintainable ATM, one day will be polished/cleaned

- ## WMS, and HPC
  - continuously evolving landscape, adaptation is key
    - HTCondor and ARC changes are followed up closely
  - several developments ongoing for supporting HPCs, moving in different directions
  - monitoring of pilots being improved (common request from previous workshop)
  - DB12 fully ported to py3.
    - Analysed results, found discrepancies (py2/py3, AMD/Intel)

- ## Monitoring
  - Storing data on ES (OpenSearch) gives us access to monitoring tools like Kibana and Grafana
    - Using it more and more in v8.
- ## DMS
  - One of the focus is keep supporting protocols
  - (limited) multihop implemented, if anyone needs it
  - several building blocks, pragmatic approach
- ## DIRAC → Rucio
  - An extended interoperability (not only a RucioFileCatalog) is added in DIRAC v7.3, checked against the multi-VO Rucio instance of GridPP
  - Rucio Catalog and Transformation System: never checked but it's probably possible to have them working together (concerns raised about performance)

- Several new developments presented, but lots of work is going on under the hood
  - Often "just better code"
- Trying to profit of the "on the shelf" tools, and in-house developments kept only when really necessary
  - this has the obvious drawback of needing support for other tools than DIRAC
- VOMS → CheckIn/IaM/?
  - drive for re-thinking of DIRAC AuthN/Z, but also the protocol

- Everyone's using WMS and Accounting
- Everyone's using at least partially the DMS
  - everyone (but Belle2) use the DFC
  - few more installations needing to use Rucio
- Several using RMS + TS
  - ProductionSystem also available, but not widely used yet
    - if RMS+TS not yet used, the suggestion is to use RMS+TS+PS
- Communication is deemed good by all
- BDII cited in few reports, DIRAC users still rather depending on it, but no obvious solution
- Support for central DIRACOS2 CVMFS installation that can be reused by different pilots can be very useful
  - on EGI CVMFS? Needs little dev though

- Pilots monitoring is still requested (cited in few reports) but good to see that this is progressing
- Some in-house developments have the potential of becoming part of vanilla DIRAC:
  - ILCDirac jobs and requests monitoring
  - Rucio–DIRAC FC methods from Belle2
  - Scout jobs (Belle2)
  - Dataset Searcher ? (Belle2)
  - CTADIRAC transformations' datasets

- Not many updated to py3, but those who did are happy
  - several still on v7r2, if not v7r1
- No-one mentioned using HTTP DIRAC services (LHCb has a few)
  - Few available also in v7r2, why not tried out?

- Not every installation is up to date (using the latest releases)
    - really: do update, and keep it up to date
    - tokens! those come only in latest releases so you might be forced to update rather quickly
- Use github for issues, and for discussions
    - the google forum is not dead, but…
- Come to the BiLD meetings
- Participate to the DIRAC hackathons
- Use the CI in your extension

DIRAC Consortium news

Board of representatives (yesterday):

- 2 new official members joined the Consortium
    - Imperial College
    - University of Montpellier
- Extension of the Consortium Agreement for another 5 years till 2027 is being prepared
- Membership of PNNL in the Consortium is stopped

Recordings

Yesterday's MP4 is already available from https://indico.cern.ch/event/1107386/, and today's will be there too.

THE INTERWARE

- how did we do?

...and questions/comments from you?

Bye!

DIRAC — THE INTERWARE

Hope to **see you** at the next DUW.

next time, for real!