DIRAC Project status

A.Tsaregorodtsev,
CPPM-IN2P3-CNRS, Marseille,
DIRAC@IN2P3 meeting,
1 June 2021

DIRAC THE INTERWARE

- Status of releases
- Ongoing developments
- EGI/FG-DIRAC service
- Conferences

- **2 patch releases in the last month**
  - v7r1p44
  - v7r2p13
  - Multiple Python3 fixes
  - PoolComputingElement use concurrent.futures.ProcessPoolExecutor

- **v7r3-pre14**
  - Python3 both client and server
  - Service migrated to HTTPS
  - OAuth2/OIDC AAI, user management

OAuth/OIDC AuthN/AuthZ (Andrii)

- First updated PR in final preparation
- Certification is being prepared on the lbcertifdiracoauth.cern.ch/ host at CERN:
  - Python3 DIRAC installation
  - Will be complemented by the new PR on top of it

▸ Running more or less smoothly
  ▸ Q1+Q2
    ☐ >5M jobs in 12 countries

▸ Sites configuration
  ▸ VO complex_systems sites are sorted out
  ▸ Km3net.org VO case
    ☐ CNAF, Napoli sorted out
    ☐ CC/IN2P3, CPPM are being added
  ▸ We should continue to clean up sites
    ☐ In collaboration with the Vapor portal

▸ Elasticsearch
  ▸ ELIAS DB is set up, certificates are generated
  ▸ Monitoring Service is started
    ☐ Tested with the Job (WMSHistory) monitoring
  ▸ Connectivity timeout problem was solved
  ▸ Other functionalities will be now enabled
    ☐ Activity Monitoring
    ☐ Job Parameters
  ▸ Needs update to v7r2

- Pilot3 is now used in the EGI service

- M2Crypto is disabled and must be enabled
  - Must be confirmed for pilots and FG CA proxies
  - Still have some problems with some host certificates
    - Difficult to reproduce, work in progress
    - Errors in pilots, for example

- Upgrade to v7r2 of several servers
  - ccdiracli09 and ccdiracli10 are already switched
    - Needed for the ES services
    - Tests look OK
  - Other hosts should be now upgraded as well.
  - Enable services access by HTTPS

▸ VMDIRAC is enabled in the service

  ▸ Cloud sites are to be reconfigured

    ☐ Projects/tenants are changing

    ☐ Using MarketPlace images requires image selection by metadata, to be implemented

    ☐ etc

    ☐ Help needed

- ▶ **Other contributions**
  - ▶ ACAT
    - ▶ Abstract submission deadline moved to 29th august
  - ▶ Grid'2021, JINR
    - ▶ Presentation done on the 6th July

- Urgency for complex workflows paper
  - Volker's journal

- Draft paper URL
  - https://gitlab.in2p3.fr/DiracIN2P3/TSPaper2017

- Effort needed to accomplish it