## **DIRAC** Project status

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



## Felicitations Sorina !





### Seven patch releases in the last month

- ▶ v7r0p52
- v7rlp35
- v7r2 release is done
  - HTTP protocol
  - Python3 client
  - Setup tools (pip install, conda)
    - Extension should be updated accordingly

4



- OAuth/OIDC AuthN/AuthZ (Andrii)
  - Coded but needs a revision after the v7r2 is out
  - Suitable for both Check-In and (WLCG) IAM SSO solutions
- Jupyter notebooks (EGI)
  - Needs Oauth DIRAC services for getting proxies
  - See above
- VMDIRAC
- DIRAC/Go is stopped
  - Difficulties with integration with the Python based DIRAC
- COMDIRAC



- The preparatory work done before 22d March
  - CS updated
    - □ Registry
  - New servers installed together with the DIRAC software
  - FG installation upgraded to v7r1p32
  - EGI FileCatalog and Accounting databases migrated to CC (Andrii)
    - $\hfill \Box$  EgiFileCatalog service enabled for the EGIVO's
- Day X, 22d March
  - EGI Job submission stopped the day before
    Not the FG jobs !
  - The DNS aliases xxx.egi.eu were switched to point to xxx.in2p3.fr servers



# EGI/FG services merging

- Problems encountered
  - Sandboxes in /vo/dirac/sandboxes directory
    - □ Moved to /data/storage/sandboxes
  - Problems with some proxies
    - □ Mostly robot ones
    - $\Box$  Had to disable M2Crypto on the server side
    - □ Biomed robot proxy fixed
      - □ Non-RFC delegations
      - □ Limited number of delegations
    - □ WeNMR robot proxy
      - Non-RFC delegations eliminated
      - □ Comma in the certificate DN !
  - EGI clients with Egi-Production Setup in the local configuration
    - □ JobManager hot fixed to convert jobs to the Dirac-Production Setup
    - □ Further the client configuration must be fixed



- After initial problems fixed job started to run
- Further problems
  - Large sandboxes for WeNMR jobs
    - $\square$  > IOMB compressed
      - $\Box$  The limit was raised to 40MB
    - □ Upload to DIRAC-USER
      - $\Box$  3 instances with one faulty one fixed
      - □ Hiting the DIRAC-USER 5TB quota raised to 6.5TB (out of 7.5TB partition !)
    - $\Box$  Need for more storage for sandboxes urgent !
  - MariaDB server performance
    - $\hfill\square$  Services stuck on Sunday with max connections exceeded
      - □ All services stopped to clear connections
        - Unexpected downtime declared (~2 hours in total)
    - Philippe's intervention to raise the limit from 500 to 1000 and restart the servers
      - □ Services restarted and the number of connections stabilized at around 300
    - □ Still we have to understand what provoked the spike in the number of connections
      - □ Possibly an aggressive job cleaning



- Other things to be done quickly
  - Finish the Resources configuration clean-up (Gino)
    - □ LCG -> EGI
      - □ Keep CREAM's as necessary
      - Testing the sites (many sites are failing)
  - Enable ES monitoring
    - □ Help needed Patrick, Michelle
  - Enable Pilot3 (Andrei)
  - Enable Resource Status System tests (Gino, Andrei)
    - □ Couple eventually with the EGI Monitoring service





### Development setup is prepared

No other progress in the last month

10



**DIRAC User workshop** 

- IO-11th May
  - https://indico.cern.ch/event/852597
- DIRAC User's contributions
  - EGI-FG DIRAC service experience
  - CTA case
- DIRAC Developer's contributions
  - Production System



## Conferences

#### Contributions submitted

- ISGC
  - EGI Workload Manager presented on the 24<sup>th</sup> March
  - The paper is expected in April
- Other contributions
  - vCHEP
  - ACAT
  - Grid'2021, JINR





- Urgency for complex workflows paper
  - Volker's journal
- Draft paper URL
  - https://gitlab.in2p3.fr/DiraclN2P3/TSPaper2017
- Effort needed to accomplish it