DIRAC Project status

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DIRAC
THE INTERWARE

- ▸ Status of releases
- ▸ Ongoing developments
- ▸ Collaborative work
- ▸ FG-DIRAC service
- ▸ Conferences

- Two patch releases in the last month
  - v7r0p35
  - V7r1p13
- v7r2 release status
  - Python3 client side compatibility is close to be merged
  - HTTPS Tornado based client/server protocol os close to be merged

- Conda-forge DIRAC environment is created
  - Very simple client installation, e.g.
    - `conda create -c conda-forge --name dirac ipython dirac-grid`
    - `conda activate dirac`
  - Opens new opportunities
  - JupyterHub at notebooks.egi.eu
    - DIRAC Notebook and terminal
    - OAuth token available
      - ☐ Have to see how this can be used to contact DIRAC services

- DIRAC Production System (Luisa, Johan)

- VMDIRAC (Andrei)

- OAuth/OIDC AuthN/AuthZ (Andrii)
  - Will be incorporated in v7r3 release
    - Provide Oauth tokens based authentication to the HTTPS based DIRAC protocol

- Exploring GO language as the basis for the future DIRAC framework (Christophe)

- ES set up at CC/IN2P3 (Luisa, Patrick)

- Luigi Fusco, CPPM, is actively looking at it together with colleagues from Italy
  - Jobs using CORSIKA containers are demonstrated to work
  - Starting with the Web development for the portal GUI
  - The mock-up GUI is conceived, coding is started
  - The CORSIKA containers creation tools are being incorporated into a specially designed DIRAC service

- **Running smoothly**
  - Running v7r0
  - We should foresee v7r1 migration

- **Looking at setting up ELK stack**
  - Elasticsearch/LogStash/Kibana
  - Help would be quite welcome

- **Setting up multi-core queues**
  - LAL, others
  - To be done

- INFRAEOSC: looking at the continuation of the EOSC-Hub project
  - EGI-ACE proposal accepted
    - 44 PMs for CPPM + CC
    - Have to see how to set up the new stage of the DIRAC EGI service

- EGI Conference 2-4th November
  - The conference is going online
  - Small DIRAC presentation in the EGI Data Analytics session
    - + "Clinic" Q&A user session
  - No dedicated DIRAC workshop

- Contributions to submit
  - JCAD abstract rejected
  - ISGC (26 Oct)

- Urgency for complex workflows paper
  - Volker's journal

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

- Effort needed to accomplish it