DIRAC Project status

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CPPM-IN2P3-CNRS, Marseille,
DIRAC@IN2P3 meeting,
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- Status of releases
- Ongoing developments
- EGI/FG-DIRAC service
- Conferences

- ▶ **2 patch releases in the last 3 weeks**
  - ▶ v7r2 patches are not accepted (v7r2p52)
  - ▶ v7r3p33
  - ▶ 8.0.3
  - ▶ Minor fixes
    - ▶ Fixes for ARC/ARC6, added AREX CE
    - ▶ Minor fixes:
      - ☐ FC CLI
      - ☐ Reduce the PollingTime of JobAgent to 20s
      - ☐ Minor bug fixes

- # 8.1.0a4 is compiled
  - ## 3 hackthons already passed
- # 8.1.0 features
  - Moving all the services to HTTPs
    - StorageElement ?
  - Remove Setup concept and related codes
  - Support for non-DIRAC clients: REST, HTTPs
  - Deprecate dirac-proxy-init -> dirac-login
  - Remove VMDIRAC -> CloudComputingElement

Ongoing developments

- **OAuth/OIDC AuthN/AuthZ**
  - Still fighting with the authentication of some users:
    - Check-In tokens are not recognized by Check-In (!)
  - Meeting with the Check-In developers this afternoon

- **ARC/HTCondorCE/Cloud with tokens**
  - Making the full chain : SiteDirector-TokenManager
  - Implemented with the new IdProvider class: OidcAgentIdProvider
  - Tested with HTCondorCE and WLCG dev tokens
  - To be done
    - Tests with EGI Check-In tokens (no time scale)
    - Tests of ARC and Cloud submission (ongoing)
  - A draft PR is submitted to Github
    - Lacks AREX and Cloud part yet

- ▸ WebAppDIRAC
  - ▸ NTR

- ▸ COMDIRAC
  - ▸ Discussed with GridPP moving COMDIRAC to DIRAC
  - ▸ Draft PR is done
  - ▸ Issues: preserve COMDIRAC sessions concept
    - ▸ Caching configuration and states
    - ▸ Quicker response

▶ Running more or less smoothly

  ▶ Since Jan 2022

    ☐ > 13M jobs

    ☐ Up to 15k concurrent jobs

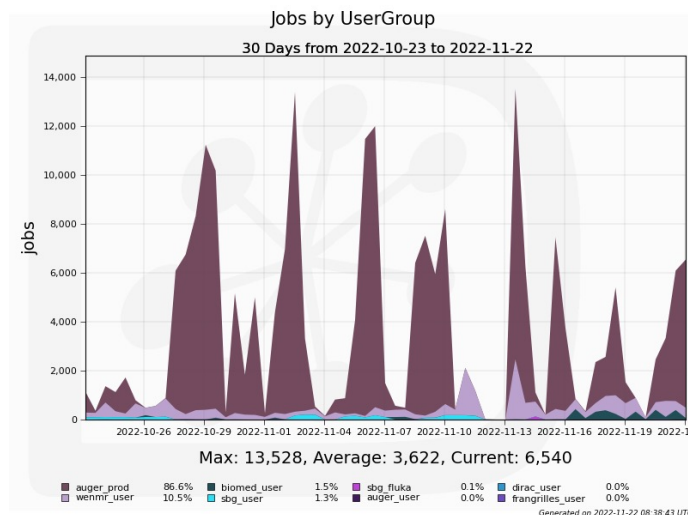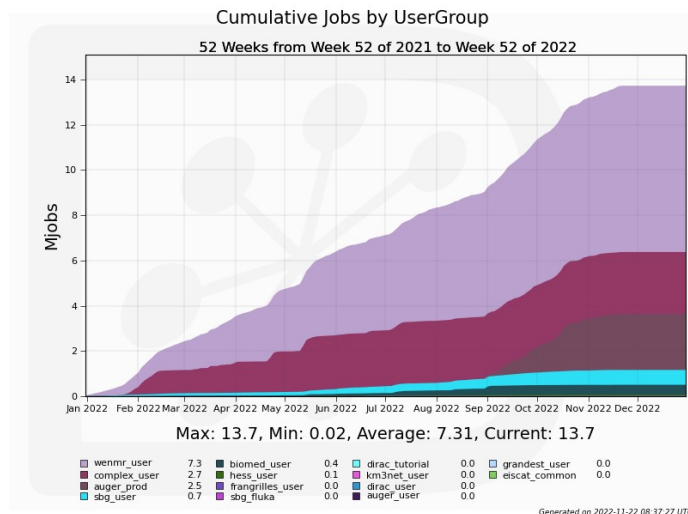   ☐ ~3600 on average last month

  ▶ Large Auger production

▶ Servers installation

  ▶ Smooth server running

  ▶ ccdirac06 at 8.0.0

    ☐ TokenManager

    ☐ AuthServer

  ▶ Have to plan migration to 8.0.X

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- Discussing with complex VO using cloud resources
  - Starting with LAL cloud
  - Initial tests are done, see below

- Have to set up CloudComputingElements
  - First, with proxies or login/passwords
  - Second, with EGI tokens

- Starting Galaxy integration
  - Set up Galaxy VO
  - Discussing with biomed VO (Sorina) to use there resources (VOMS, computing) for testing

- ## VMDIRAC
  - NTR
  - to be dropped after CloudComputingElements are configured

- ## Jupyter
  - NTR
  - Pending dirac-login fix after moving to KeyCloak

- New way of funding the EOSC activities
  - Successor to EGI-ACE
  - Tender document: https://ted.europa.eu/udl?uri=TED:NOTICE:234660-2022:TEXT:EN:HTML&src=0

- DIRAC is invited to take part in Lot4:
  - Managed Interactive Data Analytics Platform and Visualization Services for the EOSC Exchange

- We have to make a careful evaluation of the services costs
  - Examples will be available

- Concordia project
  - Migration to Python3 of the EscapeDIRAC extension still to be done

- ESAP
  - NTR

- Recognizing DIRAC as the base workload manager for ESCAPE (Johan)

- **EAP 21 Oct 14pm**
  - Went quite smoothly
  - No special comments (see the EAP slides)

- **IN2P3 Projects meeting 29th November**
  - Calcul et Données at 12:15 (Sabine)

- DIRAC Community workshop at the EGI Conference 2023 (suggested by EGI)
  - May or June 2023
  - We will do it most likely

- Joint DIRAC + Rucio Workshop
  - 16-20 October 2023
  - KEK

- CHEP 2023 abstracts
  - General DIRAC dev overview (Federico)
  - CTA Production (Alice)
- ISGC abstract
  - DIRAC OIDC/OAuth2 (Andrei)

- Others ?

▶ Consortium Agreement Amendment can now go

  ▶ Stalled at the CNRS/IN2P3 signature stage

    ▶ Should be soon resolved (hopefully)

- Urgency for complex workflows paper
  - Volker's journal

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

- Effort needed to accomplish it