DIRAC Project status

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

- 4 patch releases in the last month
  - v7r2p42
  - v7r3p19
  - Multiple minor fixes
    - RMS, RSS, WMS
  - WebAppDIRAC
    - NTR
  - COMDIRAC
    - NTR

- ## 8.0.0a17
  - ### WebAppDIRAC 5.0.0a10
  - ### Python3 only
  - ### OAuth2/OIDC AAI, user management
  - ### Status
    - 9 certification hackathons are rather successful
    - Including hackathon on lbcertifoauth.cern.ch – special instance for the certification of the OAuth tokens development
  - ### Next hackathon on the 24th March
    - Last one before the 8.0 release (?)
    - Not all the tokens related stuff will be likely included
      - ☐ TokenManager

- ## OAuth/OIDC AuthN/AuthZ (Andrii)
  - Base features included into v8r0 prerelease
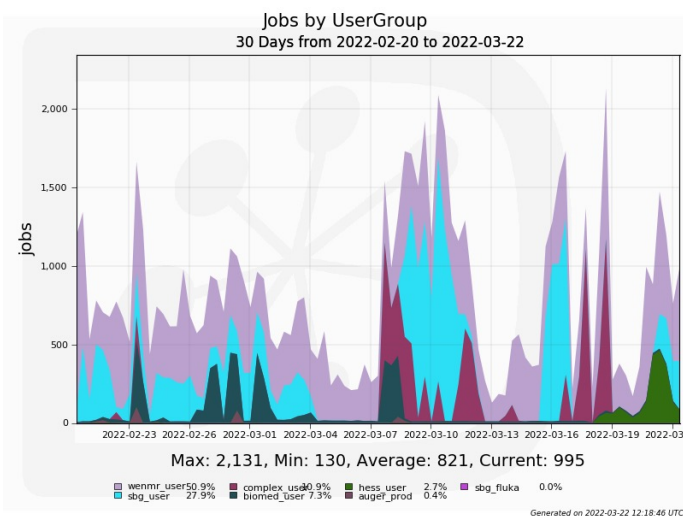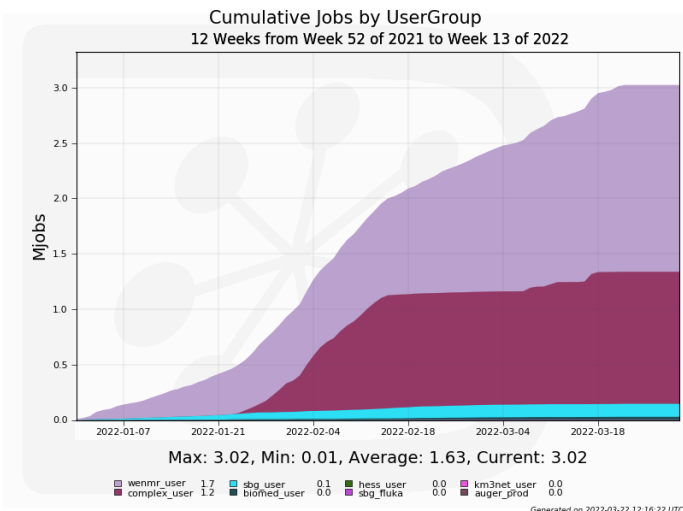 - Little progress since last month

- ▸ Running more or less smoothly
  - ▸ Since Jan 2022
    - □ > 3M jobs
    - □ Up to 2k concurrent jobs
      - □ 800 on average

- ▸ Servers installation
  - ▸ All servers are at v7r3p15
    - □ Will pass to v7r3p19 this week

- ▸ Sites updates ongoing (Gino)

Cumulative Jobs by UserGroup
12 Weeks from Week 52 of 2021 to Week 13 of 2022

Max: 3.02, Min: 0.01, Average: 1.63, Current: 3.02

Jobs by UserGroup
30 Days from 2022-02-20 to 2022-03-22

Max: 2,131, Min: 130, Average: 821, Current: 995

- **VMDIRAC**
  - Currently configured 3 sites
    - Cloud.Padova.it, Cloud.ULAKBIM.tr, Cloud.IPHC.fr
  - Recently add Cloud.CNIC.cn
    - WeNMR resource
    - Very closed, no public IPs, setting up VPN for access

  - Ongoing development
    - Dealing with tokens
    - Working, integration with the TokenManager – ongoing
- **Jupyter**
  - Setting up DIRAC access in Jupyter notebooks
    - For Eiscat 3D, custom Dockerfile
    - Adding CVMFS to the Jupyter Docker image
  - In contact with the CC developers (Sebastien Gadrat)

- ► Concordia project
  - ► NTR
  - ► Previous status
    - ► Scripts based API for submission of grid jobs with Corsika containers
      - ☐ Adapted for Km3NET and CTAO
    - ► Porting the scripts to the Concordia WebGUI started
- ► ESAP
  - ► Integration with DIRAC
    - ► Asking for integration with RCAuth (In progress, Andrii)

- Conseil Scientifique de l'IN2P3
  - 23-24 June
  - Calcul et Données

- Including presentation from Master Projects
  - Including DIRAC@IN2P3
  - The exact format and contents is being discussed

- CC/Lyon
  - 14th April
- Please, register
  - https://indico.in2p3.fr/event/26103/
- Missions managed by CPPM
  - Veronique Roux
- Agenda
  - To be compiled
  - Detailed review of ongoing activities

- ISGC Conference
  - 21-25 March, online, https://indico4.twgrid.org/event/20/
  - Presentation on « Exploiting cloud resources with DIRAC »
    - 23d March

- Others to be viewed (EGI, etc)

- Urgency for complex workflows paper
  - Volker's journal

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

- Effort needed to accomplish it