

# DIRAC Project status

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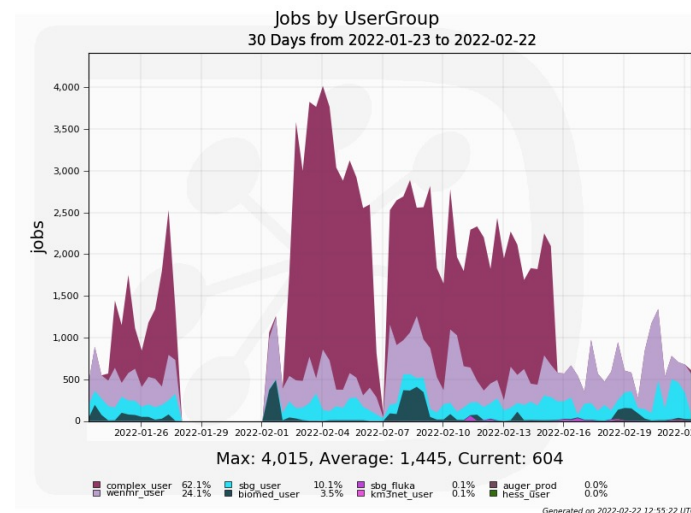
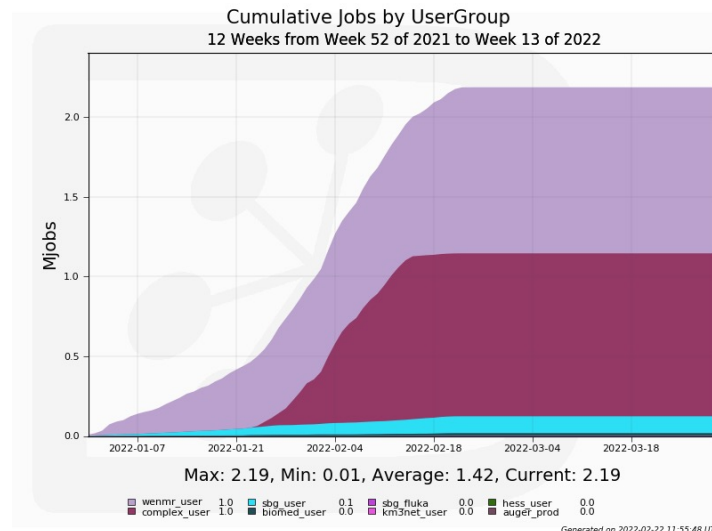
- ▶ Status of releases
- ▶ Ongoing developments
- ▶ EGI/FG-DIRAC service
- ▶ Conferences

- ▶ 5 patch releases in the last month
  - ▶ v7r2p40
  - ▶ v7r3p17
  - ▶ Multiple minor fixes
    - ▶ Job state machine fixes
    - ▶ Several HTTPS/Tornado related fixes
    - ▶ Python3 fixes (byte/str encodings)
    - ▶ Documentation updates
  - ▶ WebAppDIRAC
    - ▶ V4r3p11
      - Syncing with the DIRAC updates
  - ▶ COMDIRAC
    - ▶ 1.3.3
    - ▶ Python3, PyPi

- ▶ 8.0.0a14
  - ▶ WebAppDIRAC 5.0.0a10
  - ▶ Python3 only
  - ▶ OAuth2/OIDC AAI, user management
  
- ▶ Status
  - ▶ 7 certification hackathons are rather successful
    - Next hackathon will be run on lbcertifoauth.cern.ch – special instance for the certification of the OAuth tokens development

- ▶ OAuth/OIDC AuthN/AuthZ (Andrii)
  - ▶ Base features included into v8r0 prerelease
  - ▶ Documentation of the new APIs
  - ▶ Certification is ongoing
  - ▶ Tests at IN2P3
    - ▶ Installed on ccdiracli06.in2p3.fr
    - ▶ Whole chain of CloudVM submission:  
token generation -> TokenManager->CloudDirector

- ▶ Running more or less smoothly
  - ▶ Since Jan 2022
    - ~2.2M jobs
    - Up to 4k concurrent jobs
- ▶ Servers installation
  - ▶ All servers are at v7r3p15
  - ▶ Python3
    - Temporary reverted to Python2 for biomed in order to install COMDIRAC extension
- ▶ New pass on updating the site resources is needed
  - ▶ CREAM's are all stopped
  - ▶ Other sites are to be rereviewed per community supported



- ▶ VMDIRAC
  - ▶ Currently configured 3 sites
    - ▶ Cloud.Padova.it, Cloud.ULAKBIM.tr, Cloud.IPHC.fr
  - ▶ Recently add Cloud.CNIC.cn
    - ▶ WeNMR resource
  - ▶ Ongoing development
    - ▶ Dealing with tokens
    - ▶ Working, integration with the TokenManager – ongoing
- ▶ Discussion with the OpenCoast
  - ▶ Real-time simulations (climate forecasts)
    - ▶ Interesting challenge for resource reservation and tasks scheduling

- ▶ 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)



- ▶ ISGC Conference
  - ▶ 21-25 March
  - ▶ Abstract accepted on using cloud resources in EGI and GridPP (including tokens)
- ▶ 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