

DIRAC Project status

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

- ▶ 2 patch releases since last meeting
 - ▶ V7r3p35 – no changes
 - ▶ 8.0.15
 - ▶ Minor fixes (following LHCb going 8.0 in production)
 - ▶ Fixes for AREX CE
 - ▶ Support for sqlalchemy 2.0
 - ▶ Removed Google forum from docs
 - ▶ Multiple minor fixes

- ▶ No change for 8.1.0
 - ▶ 8.1.0a8 is compiled
 - ▶ 4 hackthons already passed
 - ▶ 8.1.0 features
 - ▶ Moving all the services to HTTPs
 - StorageElement ? No solution yet
 - ▶ Remove Setup concept and related codes
 - ▶ Support for non-DIRAC clients: REST, HTTPs
 - ▶ Deprecate dirac-proxy-init -> dirac-login
 - ▶ Remove VMDIRAC
 - Use CloudComputingElement instead
 - ▶ Support for centralized pilot logging

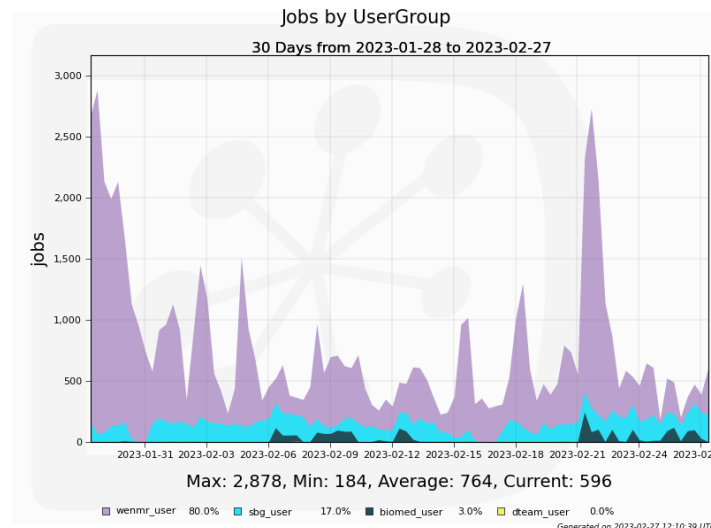
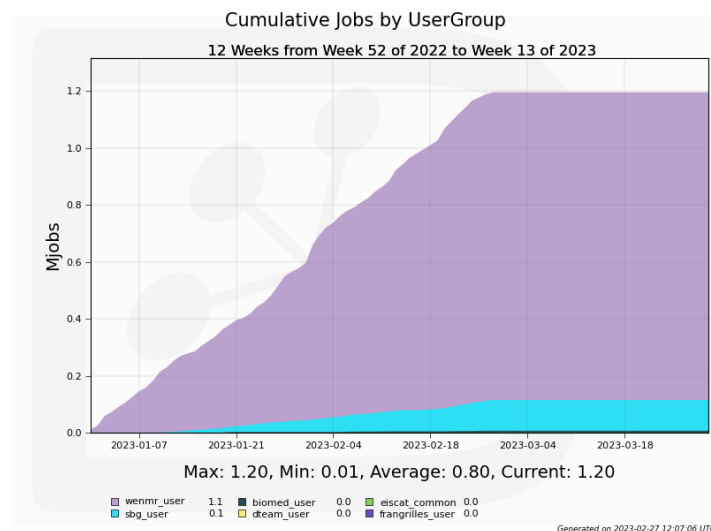
- ▶ OAuth/OIDC AuthN/AuthZ
 - ▶ Regular meeting with the Check-In developers
 - ▶ Working on tokens introspection
 - Group embedded in the Check-In token
 - ▶ Considering moving biomed to Check-In VO management
- ▶ CC team dev effort (Vanessa, Bernard, Martin, Guillaume)
 - ▶ Token Manager Web application
 - ▶ cctbdiracXX development servers
 - ▶ Tests of https services
 - ▶ Work meeting 2-3 March in Marseille

- ▶ ARC/HTCondorCE/Cloud with tokens
 - ▶ Making the full chain : SiteDirector-TokenManager
 - ▶ Tested with HTCondorCE and WLCG dev tokens
 - ▶ CC, IC, OSG
 - ▶ oidc-agent based solution completely abandoned
 - ▶ Solution based on the TokenManager/TokenDB is being tested
 - ▶ HTCondorCE at CC
 - ▶ ARC6/AREX is to be fully tested yet
 - ▶ Will be included into the hackthon certification on the 2nd March

- ▶ WebAppDIRAC
 - ▶ Token Manager
- ▶ COMDIRAC
 - ▶ Merged with DIRAC in 8.0.14

- ▶ New development environment at CC
 - ▶ cctbdirac01, cctbdirac02
 - ▶ Shared by several developers
 - ▶ CC, CPPM, others
 - ▶ Elastic Search support to be added

- ▶ Running more or less smoothly
 - ▶ Since beginning 2022
 - > 1.2M jobs
 - Up to 3k concurrent jobs
 - ~800 on average last month
- ▶ Servers installation
 - ▶ Smooth server running
 - ▶ ccdirc06 at 8.0.0
 - TokenManager
 - AuthServer
 - ▶ Have to plan migration to 8.0.X
 - ccdirc01 at 8.0.4
 - No fire, but should be done
 - After studying the fixes needed by LHCb following the migration to 8.0



- ▶ CloudComputingElements
 - ▶ OK: IJCLab(complex), Padova(enmr.eu), CESNET(dteam), CNIC(eiscat.se), IPHC(biomed)
 - ▶ ICESGA, IFCA, BARI
 - ▶ Set up but Application Credentials not authorized – sorting out site by site
 - ▶ ULAKBIM
 - ▶ Server certificate problem

- ▶ EC Procurement - dossier abandoned
 - ▶ Too complex
 - ▶ Unclear management and benefits
- ▶ Other projects
 - ▶ Infra TECH-01-01 call (~5M)
 - ▶ **GreenDIGIT** – technologies and practices for sustained RI computing environments
 - ▶ More standard procedure
 - ▶ Lump sum type financing
 - ▶ CNRS: CPPM, IPHC, CC
 - ▶ Asking for ~30PMs support
 - ▶ Algorithms for environment friendly job scheduling
 - ▶ Proposal is being written now

- ▶ ESCAPE

- ▶ NTR

- ▶ Galaxy

- ▶ Discussions with Galaxy developers restarted

- ▶ Setting up testing environment

- Interested in a custom Pilot Factory with custom scheduling algorithms

- ▶ Budget DIRAC 2023 12K euros
 - ▶ Managed by CPPM
 - ▶ Requests by other labs to be transferred to CPPM
 - ▶ First attempt done – successful ?
- ▶ Technical Coordinator
 - ▶ *Johan*

- ▶ DIRAC Community workshop at the EGI Conference 2023 (suggested by EGI)
 - ▶ June 2023
 - ▶ We will do it most likely to be confirmed
- ▶ Joint DIRAC + Rucio Workshop
 - ▶ 16-20 October 2023
 - ▶ KEK

- ▶ CHEP 2023 abstracts
 - ▶ General DIRAC dev overview (Federico)
 - ▶ CTA Production (Alice)
 - ▶ Mission ?
- ▶ ISGC abstract
 - ▶ DIRAC OIDC/OAuth2 (Andrei)
 - ▶ Remote presentation
 - ▶ Publication should follow

- ▶ Consortium Agreement Amendment can now go
 - ▶ Stalled at the CNRS/IN2P3 signature stage
 - ▶ Should be soon resolved (hopefully)
 - ▶ The UM participation to the Consortium will be stopped
 - ☐ The letter is being prepared now
 - ☐ Necessary prerequisite for restarting the Amendment signature