

DIRAC Project status

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

- ▶ 6 patch releases since last year 😊
 - ▶ v7r3p35
 - ▶ 8.0.13
 - ▶ Minor fixes (following LHCb going 8.0 in production)
 - ▶ Fixes for ARC/ARC6, AREX, SSH/SLURM
 - ▶ Support for OpenSSL 3.0.0
 - ▶ DFC.getDirectoryDump
 - ▶ Minor fixes:
 - ❑ TransformationDB
 - ❑ RMS

- ▶ No change for 8.1.0
 - ▶ 8.1.0a6 is compiled
 - ▶ 3 hackthons already passed
 - Last one cancelled
 - ▶ 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

- ▶ OAuth/OIDC AuthN/AuthZ
 - ▶ Regular meeting with the Check-In developers this afternoon
 - ▶ Working on tokens introspection
 - ▶ Considering moving biomed to Check-In VO management
 - ▶ CC team joined dev effort (Vanessa, Bernard, Martin, Guillaume)
 - ▶ Token Manager Web
 - ▶ cctbdiracXX development servers

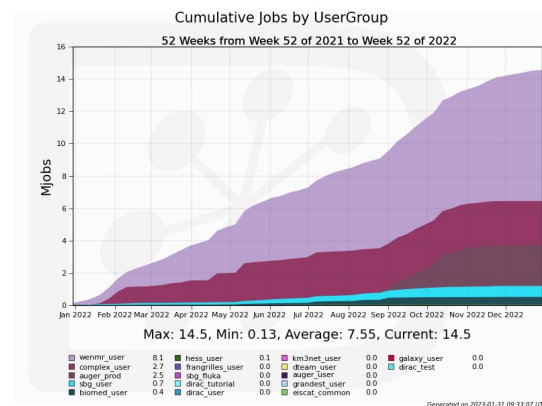
- ▶ ARC/HTCondorCE/Cloud with tokens
 - ▶ Making the full chain : SiteDirector-TokenManager
 - ▶ Tested with HTCondorCE and WLCG dev tokens
 - ▶ CC, IC, OSG
 - ▶ Using oidc-agent for token generation (temporary)
 - ▶ Solution based on the TokenManager/TokenDB is being tested
 - ▶ HTCondorCE at CC
 - ▶ ARC6/AREX is to be fully tested yet

- ▶ WebAppDIRAC
 - ▶ NTR
- ▶ COMDIRAC
 - ▶ Moving COMDIRAC to DIRAC
 - ▶ Draft PR is done
 - ▶ Issues: preserve COMDIRAC sessions concept
 - ▶ Caching configuration and states
 - ▶ Quicker response
 - ▶ Ready to be added to 8.0

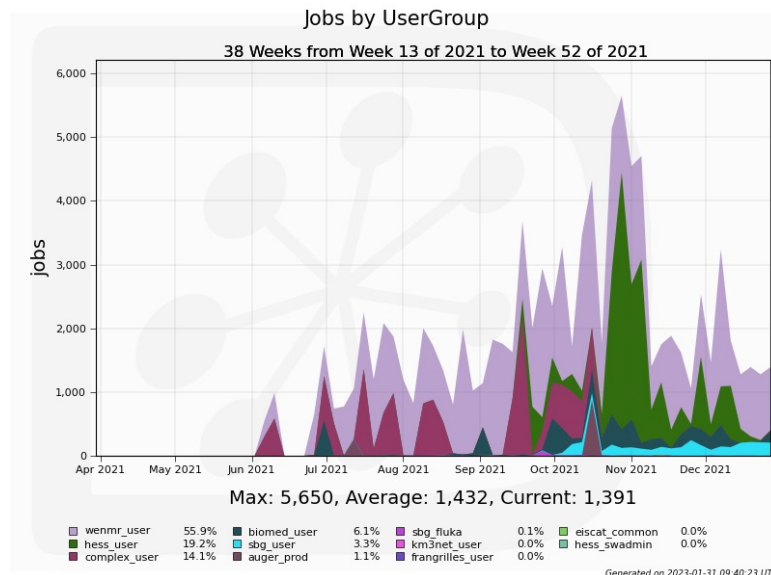
- ▶ New development environment at CC
 - ▶ cctbdirac01, cctbdirac02
 - ▶ Shared by several developers
 - ▶ CC, CPPM, others
 - ▶ DIRAC services to be installed and configured
 - ▶ 8.1.0
 - ▶ DIPS and HTTPS
 - ▶ WebApp without nginx to ease development
 - ▶ Databases

- ▶ Development plans to be detailed

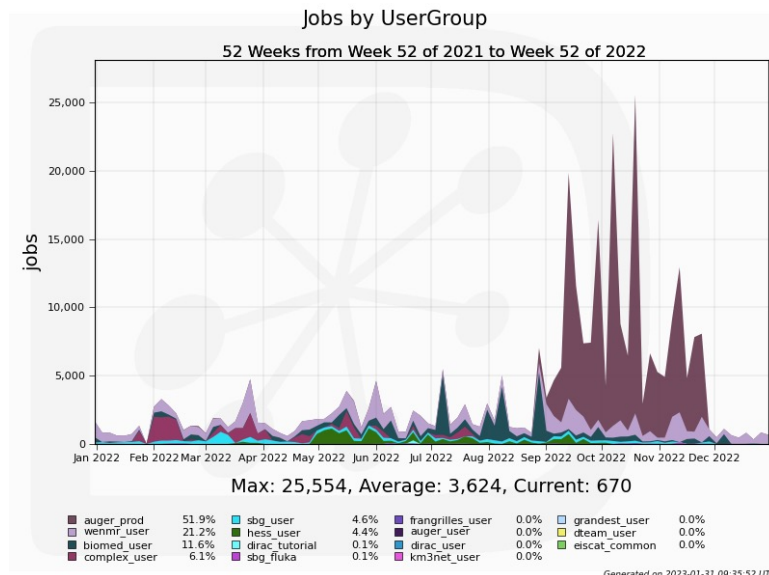
- ▶ Smooth run in 2022
 - ▶ 14.5M jobs (9.4M in 2021)
 - Up to 25k concurrent jobs
 - 3600 jobs on average
 - ▶ Still have factor 5-10 capacity reserve



2021



2022



- ▶ Servers installation at 7.3 except
 - ▶ ccdirc06 at 8.0.4
 - ☐ TokenManager
 - ☐ AuthServer
 - ▶ ccdirc01 at 8.0.4
- ▶ Have to plan migration to 8.0.X
 - ☐ We are ready to go but
 - ☐ After studying the fixes needed by LHCb following the migration to 8.0

- ▶ vo.complex-systems.eu using cloud resources
 - ▶ Set up Cloud.IJCLAB.fr site
 - ▶ CloudComputingElement, Application Credentials
- ▶ CloudComputingElements
 - ▶ OK: IJCLab(complex), Padova(enmr.eu), CESNET(dteam), CNIC(eiscat.se), IPHC(biomed)
 - ▶ ICESGA, IFCA, ULAKBIM, BARI
 - ▶ Set up but Application Credentials not authorized – sorting out site by site

- ▶ Dossier being finalized (Gino, Johan)

- ▶ Concordia project
 - ▶ NTR
- ▶ ESAP
 - ▶ NTR

- ▶ DIRAC Community workshop at the EGI Conference 2023 (suggested by EGI)
 - ▶ May or 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)
- ▶ ISGC abstract
 - ▶ DIRAC OIDC/OAuth2 (Andrei)
- ▶ Atelier EOSC, Strassbourg, Jan 2023
 - ▶ DIRAC case presented by Gino.

- ▶ Consortium Agreement Amendment can now go
 - ▶ Stalled at the CNRS/IN2P3 signature stage
 - ▶ Should be soon resolved (hopefully)