DIRAC Project status

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CPPM-IN2P3-CNRS, Marseille,
DIRAC@IN2P3 meeting,
14 December 2022

- ▸ Status of releases
- ▸ Ongoing developments
- ▸ EGI/FG-DIRAC service
- ▸ Conferences

- 2 patch releases in the last 3 weeks
  - v7r3p34
  - 8.0.6
  - Minor fixes
    - Fixes for ARC/ARC6, added AREX CE
    - Minor fixes:
      - HTCondorCE, AREX
        - ARC -> ARC6, AREX
      - Multinode allocations with SLURM

- 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
    - CC team might want to join

- ARC/HTCondorCE/Cloud with tokens
  - Making the full chain : SiteDirector-TokenManager
  - Tested with HTCondorCE and WLCG dev tokens
    - CC, IC, OSG
  - ARC6/AREX is to be fully tested yet
  - CloudCE – scenario:
    - connect with token to create and Application Credential
    - Use Application Credential for VM submission
  - A draft PR is submitted to Github
    - Lacks AREX
    - Cloud update not necessary if used with Application Credentials

- WebAppDIRAC
  - NTR

- COMDIRAC
  - Moving COMDIRAC to DIRAC
  - Draft PR is done
  - Issues: preserve COMDIRAC sessions concept
    - Caching configuration and states
    - Quicker response

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

- Development plans to be detailed

▶ ## Running more or less smoothly

- ▶ ### Since Jan 2022
  - ☐ > 14M jobs
  - ☐ Up to 15k concurrent jobs
    - ☐ ~1500 on average last month
- ▶ ### Large Auger production is over
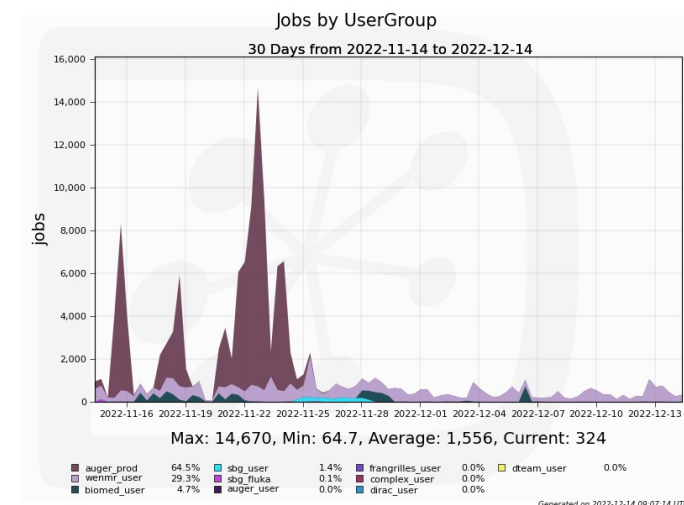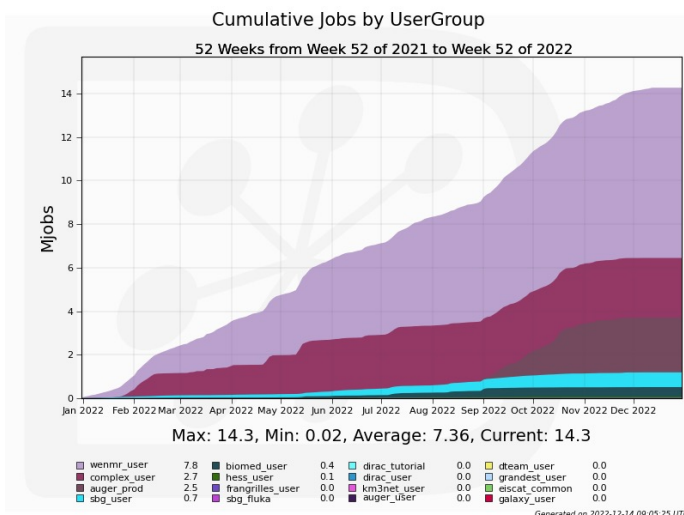
▶ ## Servers installation

- ▶ ### Smooth server running
- ▶ ### ccdirac06 at 8.0.0
  - ☐ TokenManager
  - ☐ AuthServer
- ▶ ### Have to plan migration to 8.0.X
  - ☐ ccdirac01 at 8.0.4

Cumulative Jobs by UserGroup
52 Weeks from Week 52 of 2021 to Week 52 of 2022
Max: 14.3, Min: 0.02, Average: 7.36, Current: 14.3

wenmr_user	7.8	biomed_user	0.4	dirac_tutorial	0.0	dteam_user	0.0
complex_user	2.7	hess_user	0.1	dirac_user	0.0	grandest_user	0.0
auger_prod	2.5	frangrilles_user	0.0	km3net_user	0.0	eiscat_common	0.0
sbg_user	0.7	sbg_fluka	0.0	auger_user	0.0	galaxy_user	0.0

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Jobs by UserGroup
30 Days from 2022-11-14 to 2022-12-14
Max: 14,670, Min: 64.7, Average: 1,556, Current: 324

auger_prod	64.5%	sbg_user	1.4%	frangrilles_user	0.0%	dteam_user	0.0%
wenmr_user	29.3%	sbg_fluka	0.1%	complex_user	0.0%		
biomed_user	4.7%	auger_user	0.0%	dirac_user	0.0%		

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- ▸ vo.complex-systems.eu using cloud resources
  - ▸ Set up Cloud.IJCLAB.fr site
    - ▸ CloudComputingElement, Application Credentials

- ▸ CloudComputingElements
  - ▸ IJCLab(complex), Padova(enmr.eu), CESNET(dteam) OK
  - ▸ IPHC, CESGA, IFCA, ULAKBIM, CNIC, BARI
    - ▸ Set up but Application Credentials not authorized

- ▸ Starting Galaxy integration
  - ▸ UseGalaxy VO is set up
    - ▸ With VOMS
    - ▸ No supporting sites yet
  - ▸ galaxy_user group is set up as one of the biomed groups to make tests with biomed resources

- ## VMDIRAC
  - NTR
  - to be dropped after CloudComputingElements are configured
    - Can be done now

- ## Jupyter
  - NTR

▸ DIRAC services cost evaluation is ongoing (Gino)

- 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)

- Others ?

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