

DIRAC Project status

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

- ▶ 11 patch releases in the last month
 - ▶ v7r2p37
 - ▶ v7r3p12
 - ▶ Multiple minor fixes
 - ▶ VMDIRAC
 - ▶ Job rescheduling
 - ▶ WebAppDIRAC
 - ▶ v4r2p11
 - ▶ v4r3p9
 - ▶ COMDIRAC
 - ▶ v0r20
 - ▶ PR for 1.0 is submitted

- ▶ 8.0.0a10
 - ▶ Python3 only
 - ▶ OAuth2/OIDC AAI, user management
 - ▶ Status
 - ▶ 5 certification hackathons are rather successful
 - ▶ Finalization of the HTTPS/REST Tornado based protocol design
 - ▶ Documentation

- ▶ OAuth/OIDC AuthN/AuthZ (Andrii)
 - ▶ Base features included into v8r0 prerelease
 - ▶ Ongoing (still) discussions on the HTTPS RPC/REST implementation
 - ▶ Documentation of the new APIs
 - ▶ TokenManager service
 - ▶ Tests with third party services to begin
 - Clouds
 - HTCondorCE (OSG)

▶ COMDIRAC

- ▶ Passing to Python3 is becoming urgent
- ▶ Andrii made the transformation
 - ▶ Python3 compatible
 - ▶ PyPi installable
 - ▶ Will become 1.0
 - ▶ Ready ?

▶ Running more or less smoothly

▶ Since Jan 2021

- ~10.5M jobs
- ~3.1 MHepSpec'06 CPU days

▶ Servers installation

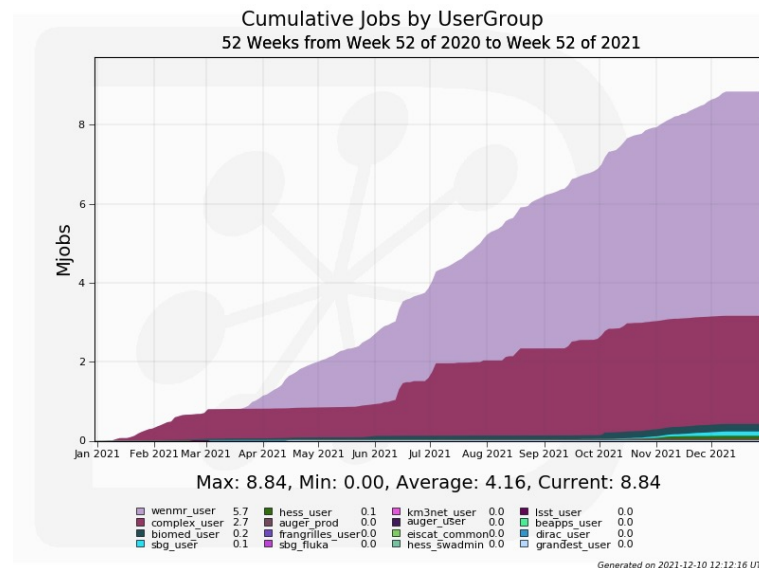
▶ All servers are at v7r3p9

▶ Pilot3

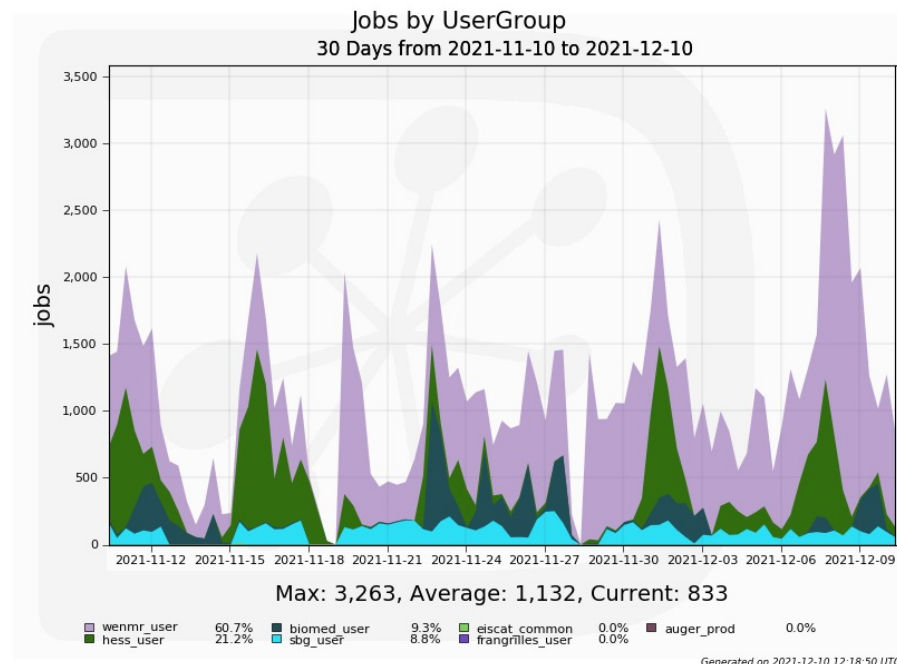
- Grid jobs v7r2p30, python2
- Cloud jobs v7r3p12, python3

▶ Passing to Python3 server installation to be considered

- LHCb is running (almost) all the services at Python3
- Early next year



- ▶ MariaDB version update
 - ▶ 10.6.4, no mirroring
 - ▶ Smooth, few schema fixes
- ▶ Elasticsearch
 - ▶ OK for Job Monitoring
 - ▶ Component logging only for some services
 - To be expanded
- ▶ Opensearch
 - ▶ Is taking over the ElasticSearch which is becoming commercial
 - ▶ CC/IN2P3 policy to be clarified
 - ▶ DIRACOS2 contains both Elastic/OpenSearch client for the moment



- ▶ VMDIRAC is enabled in the service
 - ▶ Currently configured 3 sites
 - ☐ Cloud.Padova.it
 - ☐ VOMS credentials
 - ☐ Runs WeNMR jobs
 - ☐ Access tested with Check-In tokens
 - ☐ Cloud.ULAKBIM.tr
 - ☐ Login/password
 - ☐ Configured for eiscat.se
 - ☐ Access tested with Check-In tokens
 - ☐ Cloud.IPHC.fr
 - ☐ Login/password
 - ☐ Configured for biomed
 - ☐ Problems with biomed applications to be understood
 - ☐ More sites to test
- ▶ Ongoing development to rationalize the code
 - ▶ Removing Running Pods
 - ▶ Dealing with tokens

- ▶ Concordia project
 - ▶ WebGUI for preparing docker and singularity Corsika containers is developed in the WebAppDIRAC framework
 - ☐ prerelease tests are OK, proper release is to be done
 - ☐ Luigi left CPPM, will take some time to settle the new working environment
- ▶ Scripts based API for submission of grid jobs with Corsika containers
 - ▶ Adapted for Km3NET and CTAO
- ▶ Porting the scripts to the Concordia WebGUI started

- ▶ ISGC Conference call for contributions open
 - ▶ 21-25 March
 - ▶ Fully online
 - ▶ Abstract submission deadline 20th December
- ▶ CHEP'22 cancelled
- ▶ 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