

DIRAC Project status

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

- ▶ Seven patch releases in the last month
 - ▶ v7r0p49
 - ▶ V7r1p29
- ▶ v7r2 release status
 - ▶ 4 certification hackathons are done
 - ▶ The last one (last week) was quite conclusive
 - ▶ The final certification next week (hopefully)

- ▶ Release highlights reminder
 - ▶ Python3 support on the client side
 - ▶ HTTP based RPC protocol technology preview
 - ▶ RucioFileCatalog plug-in

Ongoing developments

- ▶ OAuth/OIDC AuthN/AuthZ (Andrii)
 - ▶ Coded but needs a valid v7r2 release for final tests
 - ▶ Jupyter notebooks (EGI)
 - ▶ Needs Oauth DIRAC services for getting proxies
 - ▶ See above
 - ▶ VMDIRAC
 - ▶ Support for Singularity containers based pilots
 - ▶ Other developments to be reported
 - ▶ DIRAC/Go, Christophe
 - ▶ ES, Patrick, Luisa
 - ▶ Production System, Luisa, Johan
 - ▶ COMDIRAC, Pierre
- ▶ 5

- ▶ Ongoing migration
 - ▶ Resources are allocated
 - Servers (together with proper certificates)
 - Databases
 - Storage
 - ▶ Configuration is being updated
 - Resources (Gino, Vanessa)
 - ▶ Project page
 - https://forge.in2p3.fr/projects/dirac_egi-ace
- ▶ DIRAC services on the new host servers are installed
- ▶ Final testing before the actual migration
- ▶ Software update while migration
 - ▶ DIRAC v7r1pXX
 - ▶ Elasticsearch
 - ▶ Pilot3
 - ▶ Call for the CTA's experience

- ▶ Setting up EscapeDIRAC extension
 - ▶ GITLAB @ IN2P3 repository
 - ▶ Updated DIRAC source code structure
- ▶ User GUI developed in Javascript (D.Zito)
 - ▶ Incorporation into the DIRAC WebApp framework is ongoing
- ▶ Container manipulation is coded
 - ▶ Need incorporation as a DIRAC service

- ▶ Running smoothly
 - ▶ Making a uniform resources description together with the EGI service
 - ▶ LCG -> EGI sites
 - ▶ Checking/updating all the site descriptions
- ▶ Looking at setting up ELK stack (still)
 - ▶ Elasticsearch/Logstash/Kibana
 - ▶ Help is needed

- ▶ The history of computing in IN2P3
 - ▶ <https://box.in2p3.fr/index.php/s/igt4jQXk9AAtkWY>
- ▶ Added 4 events related to the DIRAC project
 - ▶ 2004 first successful use of the grid
 - ▶ 2012 start of the FG-DIRAC service
 - ▶ 2014 start of the EGI DIRAC service
 - ▶ 2016 launch of the DIRAC@IN2P3 Project
- ▶ Other ideas for key (software developing) events are welcome

▶ From Sabine Crépé-Renaudin

Projet Exascale:

Dans le cadre des appels à projets EuroHPC, la France se positionne afin d'héberger une machine HPC exascale. Les organismes CEA, CNRS, CPU, Inria, GENCI et le MESRI se sont réunis autour d'un projet, appelé le Projet Exascale, afin de répondre à cet appel.

▶ Opportunity for the DIRAC Project

- ▶ Access to the HPC centers
- ▶ Support for HPC applications
 - ▶ MPI, GPU, ...
 - ▶ Identify such applications in your labs and provide guidance

- ▶ Budget du Projet
 - ▶ 12k euros allocated for 2021
 - ▶ Assuming possibility of missions in the second half of the year
- ▶ The DIRAC workshop
 - ▶ Online workshop 10-11 May
 - ▶ Two 3-hours sessions for developer and user reports

- ▶ Contributions submitted
 - ▶ ISGC will be held in “on-line” format in March 2021
 - ▶ EGI Workload Manager contribution submitted
 - Presentation on the 24th March
- ▶ Other contributions
 - ▶ vCHEP
 - ▶ ACAT
 - ▶ ...

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- ▶ Urgency for complex workflows paper
 - ▶ Volker's journal
 - ▶ Draft paper URL
 - ▶ <https://gitlab.in2p3.fr/DiracIN2P3/TSPaper2017>
 - ▶ Effort needed to accomplish it