

DIRAC service tutorial

Tuesday, 10 November 2015 16:00 (2 hours)

Many large and small scientific communities are using more and more intensive computations to reach their goals. Various computing resources can be exploited by these communities making it difficult to adapt their applications for different computing infrastructures. Therefore, they need tools for seamless aggregation of different computing and storage resources in a single coherent system.

The DIRAC project develops and promotes software for building distributed computing systems. Both workload and data management tools are provided as well as support for high level workflows and massive data operations. Services based on the DIRAC interware are now provided by several national grid infrastructure projects. The DIRAC4EGI service is operated by the EGI project itself. The latter service is used by multiple user communities already and more communities are evaluating it for their future work.

The proposed tutorial is focused on the use of DIRAC services and aims at letting the participants learn how to start using the system, perform basic tasks of submitting jobs and manipulating data. More advanced examples will be given with the help of the Web Portal of the DIRAC4EGI service. The tutorial will also show examples of how new computing and storage resources can be connected to the system including Cloud resources from the EGI Federated Cloud project. Configuring system for the use by multiple communities with particular usage policies will be explained. As a result, the participants will have a clear idea about the service functionality, interfaces and extensions.

Links, references, publications, etc.

A.Tsaregorodtsev, DIRAC Distributed Computing Services, 2014 J. Phys.: Conf. Ser. 513 032096

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