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DIRAC Services for EGI users

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The DIRAC services are available for the EGI users since 2014 and since 2018 they are making part of the EOSC-Hub service portfolio. The services are providing a versatile Workload Management System which can replace the gLite WMS service. It gives access to all the EGI grid and cloud resources used for intensive computations. Users are allowed to specify also their own computing and storage resources which are not part of the EGI infrastructure. Higher level functionality can be also made available on demand of particular communities, for example, services for managing complex workflows involving massive job submissions. DIRAC is providing also basic tools for managing user data with an easy access to configurable storage elements and a powerful file catalog. The catalog allows not only to store file replica information but also to define complex access control customizable for a given community. There is a possiblity to define user metadata for easy searches of the necessary datasets. The DIRAC functionality is available via several interfaces including command line, RESTful interface as well as a comprehensive Web Portal. The basic services are available for all the EGI communities. More advanced features can be offered as part of the support in the framework of particular Competence Centers. In this presentation we will describe functionalities offered by the DIRAC services to the EGI users as well as the experience of running the services for various EGI communities. Outlook for the further evolution of the service will be also presented.

Type of abstract

Presentation

Summary

DIRAC services provide a versatile Worklad Management System for the EGI users with the access to grid and cloud resources available via the EGI infrastructure or standalone. Basic Data Management tools are also provided including access to grid storage elements and a powerful file catalog with replica and user metadata management. Higher level service for managing complex workflows can be also provided in support for interested Competence Centers. In the presentation, the experience of running DIRAC services for EGI users will be presented together with the outlook for the further service evolution

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