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Metaschedulers in the environment of eScience portals: a case study with GridWay

Project(s) or EGEE activity presenting the demo or poster (project or activity names only)

RETELAB

Special requirements other than the set up mentioned in the CfA text.

None

Abstract

RETELAB project is devoted to the design, development and deployment of a Grid infrastructure for the Spanish oceanographic research community. RETELAB users have strong requirements for processing satellite images and numeric simulation, but they are not mostly experts in Grid or computing technology. We have created a virtual laboratory based on Grid technology, which is accessed through the web. Globus has been used as Grid middleware and GridWay as workload management tool. To allow GridWay as metascheduler for this environment, it has been updated to support concurrent usage by several proxies for the same Unix user. This poster presents a review of the virtual laboratory design focusing on the job submission module, specifically designed for fulfilling the users requirements. Job submission module has been integrated as a portlet in the GridSphere framework and it allows the communication between GridWay and the portal using the Distributed Resource Management Application API.

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