

Deployment of gLite middleware: An E-Science grid infrastructure

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Abstract

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In recent years, a new generation of distributed systems is evolving in the internet bed. Grid computing is one of these brand-new highly heterogeneous technologies which expanded into worldwide without any limitations on location expansion. The main scope of a Grid is to execute user's jobs by its available set of resources. However, a potential Grid needs to be scalable, fault tolerance and immune from network congestion. In order to deeply comprehend the key issues of Grid, in this paper we install and configure gLite (Lightweight middleware for Grid Computing) middleware. We also review the role of some basic gLite components and propose our customized grid architecture. The main idea of our research is to build a scalable platform for E-Science application from universities, organizations and industries computing power. We believe that these installation details and module regulation of gLite Grid would become beneficial for academic and industrial researchers who are employed in the design and implement of scalable Grids.

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