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Installation and Configuration of UNICORE

Tuesday, 12 April 2011 14:00 (1h 30m)

Overview

EMI aims to deliver a consolidated set of middleware components for deployment in Distributed Computing Infrastructures, extending the interoperability between grids and other computing infrastructures, strengthening the reliability of the services, and establish a sustainable model to maintain and evolve the middleware, fulfilling the requirements of user communities. EMI middleware will be not build from ground, but based on existing solutions, that will be enhanced by standards adoption and mutual interoperability. This workshop is an opportunity for resource providers to be introduced with main features of EMI-1 release, to have an overview of EMI-1 related changes and its Computing and Data solutions.

Impact

The participants will get a concrete overview of installation and maintenance of UNICORE services, and will be able to reproduce installation and configurations on their own.

Description of the work

EMI will deliver a consolidated and streamlined set of services and components from ARC, gLite, UNICORE and dCache by re-factoring existing components, defining and implementing standards and phasing out duplicate or obsolete components from the original middleware stacks. The middleware components are divided in four areas (Compute, Data, Security, Infrastructure). This tutorial will focus on installing and configuring the different UNICORE components, including Grid-wide services as the global registry and workflow services as well as site-specific services like the UNICORE/X for job and storage management or the XUADB for user management. Access to virtual machines will be provided, allowing participants to perform installations by themselves.

URL

<http://www.eu-emi.org>

Conclusions

Based on production-proof solutions deployed in large scale infrastructures, EMI offers a wide range of solutions that can be adapted to tailor infrastructures according to different needs. Future work will address their interoperability and standard adoptions, that will potentially extend the base of supported communities.

Session Classification: EMI Tutorial for Resource Administrators