Contribution ID: **99** Type: **Workshop**

WS on GlobusOnline/GridFTP integration into a Cloud-Installation

Friday, 21 September 2012 13:30 (1h 30m)

Description of the work

The integration of Clouds and Grids is at the core of this project. With an IBM CloudBurst installation containing two different cloud stacks for evaluation, research and testing purposes, the presented activities show the integration of single-sign-on systems with Clouds and basic Grid technologies. The first step of this project was to create a common share with user-specific directories to enable easy transfer to and from all virtual machines of one user.
The project will be presented in the following steps:
- Systemstructure (10 min)
- GridFTP-Installation&Configuration (10 min)
- MyProxy-Installation&Configuration (5 min)
- GlobusOnline Integration (5 min)

Wider impact of this work

Through a centralized share per user and the integration of GridFTP file transfer to larger amounts of virtual machines in Infrastructure-as-a-Service cloud environments for users file management and file transfers to and from clouds are improved enormously.

Printable Summary

RISC Software GmbH runs an IBM CloudBurst instance which has been enabled for GRID Usage. The Company created a storage server that speaks GridFTP, MyProxy and is also enabled for GlobusOnline usage and this can be accessed via individual cloud instances (virtual machines). Once deployed, special cloud images automatically hook into the authentication infrastructure and mount the exported data share from the file server. This means that the cloud users get an easy way to access their data via GridFTP and GlobusOnline without having the complexities of setting this up themselves. This presentation is aimed at scientists, software developers and resource providers who will gain an understanding of how this work can be re-used for their own virtualized computing platform.

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Session Classification: Virtualised Resources

Track Classification: Virtualised Resources: challenges and opportunities (Michel Drescher: track leader)