Mastering the complexity of (multi-)clouds: the SeaClouds approach.

The difficulties in managing complex applications over multiple, heterogeneous clouds is an overwhelming barrier when approaching to cloud. The EU research project SeaClouds aims at suppressing this barrier by supporting easy distribution, monitoring and migration of application modules over multiple heterogeneous clouds.

Pisa, Italy, May 29, 2015 - Thanks to the EU research project SeaClouds, a project involving three companies - ATOS, CloudSoft, and NuroGames - and three universities - University of Malaga, University of Pisa, and Politecnico di Milano - cloud computing is now enjoying new, promising perspectives.

Cloud computing allows applications to be deployed and accessed over the internet, sharing resources and reducing costs. However, with the current technologies and mechanisms, users willing to deploy their applications upon clouds must take care of several operations whose complexity and technical rigidity go beyond the application itself. The SeaClouds Project aims at suppressing these barriers by providing a user-friendly open source framework that tackles all the required activities to manage applications deployed in multiple clouds.

As a result of the cooperation between the different partners, the SeaClouds project has recently released the first integrated platform of the SeaClouds solution, which is available at the project's repository (https://github.com/SeaCloudsEU). SeaClouds solution supports the orchestration, verification and deployment of cloud-based applications over heterogeneous, independent and structurally different clouds. Every application is constantly observed by monitoring mechanisms that will be customized according to the application's needs and requirements.

Moreover, SeaClouds works with standards: clouds and applications managed by SeaClouds are described through standard, powerful tools, such as the TOSCA description language, that are conceived with the purpose of raising the reasoning from a lower and more technical level, to a more abstract perspective, getting, this way, rid of all the technical details that are not fundamental to the both deployer's and user's logic.

SeaClouds started by October 2013 and will last until March 2016. The project represents an investment of 3 million euros, with a 2 million funding by the European Commission.

For more information on the project please visit http://www.seaclouds-project.eu.

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SeaClouds Project