



SeaClouds: One platform to rule them all

How to manage, in an efficient and adaptive way, complex applications across multiple and heterogeneous clouds is one of the problems that emerged with the cloud revolution. The SeaClouds platform helps solving this problem by supporting the agile configuration, deployment and monitoring of application components across multiple heterogeneous clouds.

Pisa, Italy, March 29, 2016 – The European Commission started the SeaClouds project (“Seamless adaptive multi-cloud management of service-based applications”) in October 2013 with a consortium formed by three companies (Atos, Cloudsoft, and NuroGames) and three universities (Politecnico di Milano, Universidad de Malaga, and Università di Pisa), and an investment of 3 million euros, 2 of which funded by the European Commission.

The objective of the SeaClouds project was to release an open source platform capable of supporting the agile configuration, deployment and monitoring of application components across multiple heterogeneous clouds. The project succeeded in releasing an open source platform (<https://github.com/SeaCloudsEU>) that supports the different phases of the lifecycle of cloud-based applications. SeaClouds automatically generates an optimal deployment plan satisfying the quality of service requirements specified by the user, performs the actual deployment of the application components over different clouds, and continuously monitors the deployed application to check that the application requirements continue to be met.

SeaClouds exploits the OASIS TOSCA (*Topology and Orchestration Specification for Cloud Applications*) standard for modelling cloud-based applications in a portable way. To execute TOSCA-based applications, the SeaClouds Consortium developed a full-fledged runtime for TOSCA, integrated with the Apache Brooklyn open source project. SeaClouds also offers its discovery capabilities to a wider audience, by permitting to retrieve TOSCA-based representations of available cloud offerings via a simple Web interface.

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

SeaClouds is a R&D project selected under the
“Software and Service Architectures & Infrastructures”
<http://www.seaclouds-project.eu>

