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The OPTIMIS Toolkit, which helps users such as service and infrastructure providers, software developers and end-users build and run applications in the cloud, has released its latest version available for download.



**Barcelona, 3 July 2013.-** The [OPTIMIS toolkit](#), which helps users such as service and infrastructure providers, software developers and end-users build and run applications in the cloud, has released its latest version available for download. The new toolkit, developed by Barcelona Supercomputing Center-Centro Nacional de Supercomputación (BSC) researchers in collaboration with thirteen other [European partners](#), can help users create their own digital IT infrastructures.

This toolkit is the final result of the OPTIMIS European project, funded under the 7<sup>th</sup> Framework Program.

The project started in 2010 and is approaching now its Final Review Meeting, in Brussels from July 4<sup>th</sup> -5<sup>th</sup>. The partners participating in this project are: ATOS (Coordinator), Umea University (Technical Coordinator), University of Leeds, HLRS, Fraunhofer-SCAI, ICCS, British Telecom, City University, Arsys Internet, The 451 Group, Hannover University, Flexiant Limited and SAP AG, together with BSC.

BSC researchers have made a major contribution to this project, providing many of the core components of the Toolkit and leading one of the project use cases, where an application belonging to the [BSC Life Science](#) department has been used to show the capabilities of the Toolkit. Two groups at BSC have participated in the development of the toolkit: the group led by Rosa M. Badia, specialised in Cloud Computing, Grid Computing and Clusters, which has focused on service construction, and the Autonomic Systems and e-Business Platforms group, led by Jordi Torres, which has focused on cloud deployment and operation.

OPTIMIS aims at optimizing IaaS cloud services by producing an architectural framework and a development toolkit. The optimization covers the full cloud service lifecycle (service construction, cloud deployment and operation). OPTIMIS gives service providers the capability to easily implement cloud services from scratch, run legacy apps on the cloud (such as those from Bioinformatics and Astrophysics) and make intelligent deployment decisions based on their preference regarding Trust, Risk, Eco-efficiency and Cost (TREC) when “typically other cloud services only consider energy or cost alone,” explains Raül Sirvent, senior researcher at Computer Sciences and Grid computing and clusters Department. OPTIMIS supports end-to-end security and compliance with data protection and green legislation. It also gives service providers the choice of developing and deploying services across all types of cloud environments – private, hybrid, federated or multi- clouds.

OPTIMIS simplifies the management of infrastructures by automating most processes while retaining control over the decision-making. The various management features of the OPTIMIS Toolkit make infrastructures adaptable, reliable and scalable. By using this Toolkit, organizations can easily provision on multi-cloud and federated cloud infrastructures and optimize the resource usage of multiple providers in a transparent, interoperable, and architecture-independent fashion.

Watch this youtube video for information about the OPTIMIS Toolkit operation:

<http://www.youtube.com/watch?v=IHQaNpuoey0>

For more information on the OPTIMIS toolkit or to arrange interviews with researchers, contact: [communication@bsc.es](mailto:communication@bsc.es) ;+34 93 413 75 14.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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