

Multi-cloud Secure Applications

From 2015-01-01 **to** 2018-01-01, ongoing project

Project details

Total cost: EUR 3 574 190	Topic(s): ICT-07-2014 - Advanced Cloud Infrastructures and Services
EU contribution: EUR 3 574 190	Call for proposal: H2020-ICT-2014-1
Coordinated in: Spain	Funding scheme: RIA - Research and Innovation action

Objective

The most challenging applications in heterogeneous cloud ecosystems are those that are able to maximise the benefits of the combination of the cloud resources in use: multi-cloud applications. They have to deal with the security of the individual components as well as with the overall application security including the communications and the data flow between the components.

The main objective of MUSA is to support the security-intelligent lifecycle management of distributed applications over heterogeneous cloud resources, through a security framework that includes: security-by-design mechanisms to allow application self-protection at runtime, and methods and tools for the integrated security assurance in both the engineering and operation of multi-cloud applications.

The MUSA framework leverages security-by-design, agile and DevOps approaches in multi-cloud applications, and enables the security-aware development and operation of multi-cloud applications. The framework will be composed of a) an IDE for creating the multi-cloud application taking into account its security requirements together with functional and business requirements, b) a set of security mechanisms embedded in the multi-cloud application components for self-protection, c) an automated deployment environment that, based on an intelligent decision support system, will allow for the dynamic distribution of the components according to security needs, and d) a security assurance platform in form of a SaaS that will support multi-cloud application runtime security control and transparency to increase user trust.

The project will demonstrate and evaluate the economic viability and practical usability of the MUSA framework in highly relevant industrial applications representative of multi-cloud application development potential in Europe.

The project duration will be 36 months, with an overall budget of 3,574,190 euros.

Coordinator

FUNDACION TECNALIA RESEARCH & INNOVATION
Spain

Spain

EU contribution: EUR 685 870

Participants

Centro Regionale Information Communication Technology scrl
Italy

Italy

EU contribution: EUR 439 375

CA TECHNOLOGIES DEVELOPMENT SPAIN SA
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EU contribution: EUR 495 000

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EU contribution: EUR 545 500

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EU contribution: EUR 329 656

LUFTHANSA SYSTEMS AG
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EU contribution: EUR 496 195

TTY-SAATIO
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Finland

EU contribution: EUR 582 594

Last updated on 2015-05-05

Retrieved on 2015-11-13

Permalink: http://cordis.europa.eu/project/rcn/194208_en.html

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