PriVacy and Security MAintaining services in the CLOUD

Fact Sheet

Project Information

PRISMACLOUD
Grant agreement ID: 644962

Funded under
H2020-EU.2.1.1.

Project website

Overall budget
€ 8 381 952,50

EU contribution
€ 7 983 008,75

Start date
1 February 2015

End date
31 July 2018

Coordinated by
AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH

Austria

Objective

With a current volume of over USD 100 billion and annual growth rates of over 10%, the world-wide market for cloud computing can be considered as the major growth area in ICT. However, big companies and public authorities are reluctant to entrust their most sensitive data to external parties for storage and processing. The reason for their hesitation is clear: There exist no satisfactory approaches to adequately protect the data during its lifetime in the cloud. PRISMACLOUD addresses these challenges and yields a portfolio of novel security enabled cloud services, guaranteeing the required security for sensitive data in the cloud.

Techniques for outsourcing computation with verifiable correctness and authenticity-preservation allow to securely delegate computations to cloud providers. A distributed multi-cloud data storage architecture shares data among several cloud providers and improves security and availability. Dynamically updating shares by
means of novel techniques avoids vendor lock-in, preserves data authenticity, facilitates long term privacy and promotes a dynamic cloud provider market. Claims about the secure connection and configuration of the virtualized cloud infrastructures and properties of cloud topologies are verifiable by means of cryptographic techniques. User privacy issues are addressed by data minimization and anonymization technologies due to the application of privacy-preserving cryptographic techniques. As feasibility proof, three use cases from the fields of SmartCity, e-Government, and e-Health, will be implemented and evaluated by the project participants.

The PRISMACLOUD work program is complemented with activities addressing secure user interfaces, secure service composition, secure implementation in software and hardware, security certification, and an impact analysis from an end-user view. In order to converge with the European Cloud Computing Strategy, a strategy for the dissemination of results into standards is developed.

Field of science

/social sciences/economics and business/business and management/commerce

Programme(s)

Topic(s)

Call for proposal

H2020-ICT-2014-1

Funding Scheme

RIA - Research and Innovation action

Coordinator

AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH

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<tr>
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<th>Activity type</th>
<th>EU contribution</th>
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<td>Giefinggasse 4</td>
<td>Research Organisations</td>
<td>€ 1 267 875</td>
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<td>1210 Wien</td>
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<td>Austria</td>
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Website

Contact the organisation
ATOS SPAIN SA
Spain
EU contribution
€ 526 250
Address
Calle De Albarracin 25
28037 Madrid
Activity type
Private for-profit entities
(excluding Higher or
Secondary Education
Establishments)
Website  
Contact the organisation

COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES
France
EU contribution
€ 747 733,75
Address
Rue Leblanc 25
75015 Paris 15
Activity type
Research Organisations
Website  
Contact the organisation

TECHNISCHE UNIVERSITAT DARMSTADT
Germany
EU contribution
€ 576 150
Address
Karolinenplatz 5
64289 Darmstadt
Activity type
Higher or Secondary
Education Establishments
Website  
Contact the organisation

ETRA INVESTIGACION Y DESARROLLO SA
Spain
EU contribution
€ 446 875
Address
Calle Tres Forques 147
46014 Valencia
Activity type
Private for-profit entities
(excluding Higher or
Secondary Education
Establishments)
FONDAZIONE CENTRO SAN RAFFAELE

Italy

EU contribution

€ 226 750

Address

Via Olgettina 60
20132 Milano

Activity type

Research Organisations

Website

Contact the organisation

TECHNISCHE UNIVERSITAET GRAZ

Austria

EU contribution

€ 869 375

Address

Rechbauerstrasse 12
8010 Graz

Activity type

Higher or Secondary Education Establishments

Website

Contact the organisation

IBM ISRAEL - SCIENCE AND TECHNOLOGY LTD

Israel

EU contribution

€ 765 625

Address

94 Derech Em-hamoshavot
49527 Petach Tikva

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Website

Contact the organisation

INTEROUTE S.P.A.

Italy

EU contribution

€ 321 625

Address

Via Cornelia 498
00166 Rome

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)
KARLSTADS UNIVERSITET
Sweden
€ 374 625
Address
Universitetsgatan 2
651 88 Karlstad
Activity type
Higher or Secondary Education Establishments
Contact the organisation

AZIENDA REGIONALE PER L'INNOVAZIONEE GLI ACQUISTI S.P.A.
Italy
€ 403 750
Address
Via Torquato Taramelli 26
20124 Milano
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

MIKROPLAN GMBH
Germany
€ 182 500
Address
Berner Strasse 38
60437 Frankfurt
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

UNIVERSITY OF NEWCASTLE UPON TYNE
United Kingdom
€ 288 687,50
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<td>Kings Gate NE1 7RU Newcastle Upon Tyne</td>
<td>Higher or Secondary Education Establishments</td>
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| UNIVERSITE DE LAUSANNE                      |                                                   |
| Switzerland                                 |                                                   |
| EU contribution                             | € 0                                               |
| Address                                     | Activity type                                     |
| Quartier Unil-centre Bâtiment Unicentre      | Higher or Secondary Education Establishments       |
| 1015 Lausanne                               |                                                   |
| Website                                     | Contact the organisation                          |

| UNIVERSITAT PASSAU                          |                                                   |
| Germany                                     |                                                   |
| EU contribution                             | € 589 875                                         |
| Address                                     | Activity type                                     |
| Innstrasse 41 94032 Passau                 | Higher or Secondary Education Establishments       |
| Website                                     | Contact the organisation                          |

| XITRUST SECURE TECHNOLOGIES GMBH            |                                                   |
| Austria                                     |                                                   |
| EU contribution                             | € 395 312,50                                      |
| Address                                     | Activity type                                     |
| Grazbachgasse 67 8010 Graz                  | Private for-profit entities                       |
|                                             | (excluding Higher or Secondary Education          |
|                                             | Establishments)                                   |
| Contact the organisation                     |                                                   |