BigFoot

Project ID: 317858
Funded under: FP7-ICT

Big Data Analytics of Digital Footprints

From 2012-10-01 to 2015-09-30, closed project

Project details

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<th>Total cost:</th>
<th>Topic(s):</th>
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<tr>
<td>EUR 3 538 388</td>
<td>ICT-2011.1.2 - Cloud Computing, Internet of Services and Advanced Software Engineering</td>
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<th>EU contribution:</th>
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<td>EUR 2 562 999</td>
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Coordinated in:
France

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Objectives

The amount of digital information in our world has been exploding and new technologies and services will continue to fuel exponential growth of large pools of data that can be captured, stored, and analyzed. Nowadays, however, tools and services to store, process and interact with data are still in their infancy, represented by scattered solutions that fall short in having a unified vision, that lack common interfaces, and that only offer best-effort services. The aim of BigFoot is to overcome current drawbacks by designing, implementing and evaluating a Platform-as-a-Service solution for processing and interacting with large volumes of data. The BigFoot stack -- which builds upon and contributes to the Apache Hadoop ecosystem and the OpenStack project, in addition to creating new open source components -- features automatic and self-tuned deployments of storage and processing services for private clouds, going beyond best-effort services currently available in the state-of-the-art. BigFoot takes a novel, cross-layer approach to system optimization, which is evaluated with a thorough experimental methodology using realistic workloads and datasets from two representative application, namely ICT Security and Smart Grid data analytics. In addition, BigFoot aims at making data interaction easy by supporting high-level languages (for batch oriented analytic tasks) and by taking a service-oriented approach to support and optimize latency sensitive queries.

Coordinator

EURECOM
ROUTE DES CHAPPES 450 CAMPUS SOPHIA TECH
06410 BIOT
France

Activity type: Higher or Secondary Education Establishments

Administrative contact: Claire CRISTOFARO
Tel.: +33 4 93008258
Fax: +33 4 93008200
E-mail
ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE  
BATIMENT CE 3316 STATION 1  
1015 LAUSANNE  
Switzerland  

**Activity type:** Higher or Secondary Education Establishments  

**Administrative contact:** Anastasia Ailamaki  
Tel.: +41216937564  
Fax: +41 21 693 45 25  
E-mail

TECHNISCHE UNIVERSITAET BERLIN  
STRASSE DES 17 JUNI 135  
10623 BERLIN  
Germany  

**Activity type:** Higher or Secondary Education Establishments  

**Administrative contact:** Silke Hönert  
Tel.: +49 30 314 79973  
Fax: +49 30 314 21689  
E-mail

GRIDPOCKET SAS  
ROUTE DE CRETES 300  
06560 VALBONNE SOPHIA ANTIPOLIS  
France  

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)  

**Administrative contact:** FILIP GLUSZAK  
Tel.: +33 6 79 73 90 52  
E-mail

SYMANTEC LIMITED  
Barrow street, South Bank House 6th floor  
- DUBLIN 4  
Ireland  

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)  

**Administrative contact:** Marc Dacier  
Tel.: +33493008238  
E-mail

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Administrative contact: Matthew Elder
Tel.: +33 4 93 00 81 85

Subjects
Information and communication technology applications

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