Objective

Cloud environments are notorious for their lack of stability in performance characteristics, a feature that makes it extremely difficult for owners of time-critical applications to make the decisive step for migration and owners of SaaS to be unable to present performance vs cost tradeoffs to their customers when acting as IaaS customers. CLOUDPERFECT aims at delivering a set of tools and processes that will enable:

a) Cloud providers to enhance the stability and performance effectiveness of their infrastructures, through modelling/understanding of the overheads, optimal groupings of concurrently running services, runtime analysis and adaptation, thus gaining a competitive advantage.
b) Cloud adopters to understand the computational nature of their applications, investigate abstracted and understandable QoS metrics for providers ranking, minimize the time of procurement and provider selection processes, automate deployment and orchestration processes, balance their selection between cost and performance to optimize their competitiveness, define according SLA levels (if on the SaaS level) and monitor the maintenance of their SLA.
c) 3rd parties to act as independent validators of Cloud QoS features, through a constant monitoring, benchmarking and evaluation process, filling a gap in the current brokerage/consultancy domain for performance evaluation and SLA auditing. The innovation action starts from mature existing prototypes derived from previous EC funded projects and aims at extending their TRL levels in order to support a spin-off entity to be created for the role of QoE Assessment Broker and Toolkit Consultant. The project will cover extensive experimentation with relation to the applicability of the
envisioned toolkits in 4 facilities, while focusing on two heavy-weight industrial cases such as CFD and ERP/CRM, for which the overall value chain has been represented in the consortium, targeting domains such as manufacturing and telecom.

Field of Science

/social sciences/sociology/social problems/migration
/social sciences/sociology/governance/public services

Programme(s)

H2020-EU.2.1.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT)

Topic(s)

ICT-06-2016 - Cloud Computing

Call for proposal

H2020-ICT-2016-1

See other projects for this call

Funding Scheme

IA - Innovation action

Coordinator

ENGINEERING - INGEGNERIA INFORMATICA SPA

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<td>Greece</td>
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<td>COGNITY UK LIMITED</td>
<td>United Kingdom</td>
<td>€ 203 000</td>
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