



BASMATI WORKSHOP

Date: 09/06/2018@10:00

Organizer: Prof. Jörn Altmann

Host: Institute of Communication and Computer Systems (in the frame of OSS2018)

Objective: OSS Economics and Cloud Service Provider Federations

Audience: Open Source Software

Attendance: 30-40 people

Registration: Registration is required for OSS2018 (<https://www.oss2018.org/registration/>)

Address: Eleftheriou Venizelou 70, Kallithea 17676, Greece

Agenda

09:30-10:00	Organizational issues/BASMATI Presentation	K. Tserpes/ICCS
10:00-11:00	Smart Brokering Solutions for Clouds and Cloudlets	J. Altmann/SNU
11:00-11:30	Discussion	All

Description

Cloud service providers (CSP) are the vendors who undertake the deployment and support of application services to the cloud. They mediate between application service providers (ASP) and cloud infrastructure providers (or cloud providers-CP), ensuring that all non-functional requirements are met by using the cloud infrastructure tools so as to ensure SLA compliance while maximizing their profit margin by minimizing the cost for cloud resources. This optimization process is of vital importance for the EU and Korean SME CSPs who operate with small CAPEX and restricted customer base. On top of this, the CPs limit the capacity for expansion of those CSPs, by changing the billing policy of resource provision beyond a certain amount (e.g. 100 VMs for Amazon) from a less risky pay per use model to an advance payment model. The latter is not sustainable by those CSPs resulting in the need for collaborations. BASMATI introduces the concept of a Federation of CSPs, that allows stakeholders to adopt a shared revenue scheme without the need for capital investment directed towards the CPs. From a technical point of view, this model requires the implementation of an abstraction layer on top of multiple CPs APIs that will allow the deployment, monitoring and management of an application to a naturally multi-cloud environment in a consistent and standardized way.

This workshop will focus on the business and technical aspects that support the CSP federation model.

