

M2 Recherche - Proposition de stage

Sujet –Federation de testbeds - Onelab

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Responsables de stage

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Sujet du stage

It is of utmost importance for Europe to have access to tools and test beds to explore the future directions for internet technology and services. Although many test beds exist today, they tend to be much specialised, or explore near term product offerings, often with limited availability and openness. The Onelab2 project challenges the objective to develop and operate an open, general-purpose, and sustainable large-scale shared experimental facility. It leverages the original OneLab project's PlanetLab Europe test bed and its international visibility to make this facility a reality.

Building this facility is a real challenge as it has to design the right components to satisfy the user's needs, some of which being yet broadly defined. Therefore, Onelab2 methodology is pragmatic, starting from PlanetLab, an existing test bed with international visibility, building on the concept of federation of diverse test beds to meet the varied needs of a broad customer base. The project's vision and research contributions will materialise in PlanetLab Europe, the European arm of the world's most widely used research networking test bed, with the freedom to innovate on behalf of European industrial and academic research priorities. This will give European Internet stakeholders a means to accelerate the design of advanced networking technologies for the future Internet.

Onelab should be viewed as a long-term project, with an iterative contribution, identifying priorities and transferring its innovation into PlanetLab Europe when mature. In order to identify these priorities, Onelab explored various transition paths from the current internet.

Objectif du stage : L'objectif du stage est de travailler sur la fédération de plates-formes Onelab et de concevoir et développer un prototype pour la fédération des ces composantes.

<http://www.onelab.eu/>

Mots-clefs : Plate-forme Internet du future, Onelab, Fédération

Période visée : Le stage, d'une durée de 5/6 mois, se déroulera à partir d'avril 2009, dans les locaux du LIP6.

Rémunération : Le stage est rémunéré conformément aux stages de M2 Recherche, suivant le même barème.

Moyens et environnement : L'étudiant disposera de tous les moyens matériels et logiciels nécessaire au bon déroulement du stage et sera intégré dans l'équipe de recherche du laboratoire.