Jonathan Pastor

Ph.D student at ASCOLA

Ph.D thesis

title Conception of a fully distributed laaS manager.

supervisors Frédéric Desprez and Adrien Lebre

defense February 2016

Education

2012-now Ph.D, Computer Science, ASCOLA - Lina - Inria, Nantes, .

Conception of a fully distributed laaS manager

2009–2012 Master, Computer Science, Ecole des Mines de Nantes, Nantes, .

Engineering degree

2009–2012 Bachelor, Computer Science, Université de Nantes, Nantes, .

Research Interests

Cloud Computing Multi-site distribution of OpenStack, IaaS, virtualization.

Distributed Distibuted algorithms, concurrency, fault-tolerance.

computing

Computer skills

Systems OpenStack (Nova), Grid'5000, UNIX

Programming Python, Java, Scala/Akka, R language

languages Web programming

Languages

French Native English Almost fluent

German Scholar Spanish Basics

Research activity

Publications

A. Lèbre, J. Pastor, and . The DISCOVERY Consortium, "The DISCOVERY Initiative - Overcoming Major Limitations of Traditional Server-Centric Clouds by Operating Massively Distributed IaaS Facilities," Research Report RR-8779, Inria Rennes Bretagne Atlantique, Sept. 2015.

A. Lebre, J. Pastor, and M. Südholt, "VMPlaceS: A Generic Tool to Investigate

and Compare VM Placement Algorithms," in *Europar 2015*, (Vienne, Austria), Aug. 2015.

J. Pastor, "Vers un gestionnaire laaS massivement distribuée s'appuyant sur OpenStack," in *Conférence d'informatique en Parallélisme, Architecture et Système*, (Lille, France), July 2015.

A. Lèbre, J. Pastor, M. Bertier, F. Desprez, J. Rouzaud-Cornabas, C. Tedeschi, A.-C. Orgerie, F. Quesnel, and G. Fedak, "Beyond The Clouds, How Should Next Generation Utility Computing Infrastructures Be Designed?," in *Cloud Computing: Challenges, Limitations and R&D Solutions* (Z. Mahmood, ed.), Springer, Nov. 2014.

- J. Pastor, M. Bertier, F. Desprez, A. Lèbre, F. Quesnel, and C. Tedeschi, "Locality-aware Cooperation for VM Scheduling in Distributed Clouds," in *Euro-Par 2014*, (Porto, Portugal), Aug. 2014.
- F. Quesnel, A. Lèbre, J. Pastor, M. Südholt, and D. Balouek, "Advanced Validation of the DVMS Approach to Fully Distributed VM Scheduling," in ISPA' 13: The 11th IEEE International Symposium on Parallel and Distributed Processing with Applications, (Melbourne, Australia), July 2013.

A. Lèbre, J. Pastor, M. Bertier, F. Desprez, J. Rouzaud-Cornabas, C. Tedeschi, P. Anedda, G. Zanetti, R. Nou, T. Cortes, E. Rivière, and T. Ropars, "Beyond The Cloud, How Should Next Generation Utility Computing Infrastructures Be Designed?," Research Report RR-8348, INRIA, July 2013.

Awards

June 2014 **Grid'5000 large scale challenge**, *1st prize*, Grid'5000 Spring School 2014, Ecole normale supérieure de Lyon.

The experiment I conducted with Laurent Pouilloux got the first prize at the large scale challenge. The experiment consisted in deploying and scheduling 1700 VMs in a multi-site infrastructure, thanks to DVMS and the Vivaldi algorithm.

Professional Experience

Research

October Ph

Ph.D thesis, ASCOLA, Nantes.

2012-now

Conception of a fully distributed laaS manager

Internships

February-

Research internship, ASCOLA, Nantes.

August2012

Participation to Chemical Programming research project.

May–August

ActionScript/Javascript development, Accenture, Riga (Latvia).

2011

July 2010 Worker on Mainframes assembly-lines, IBM, Montpellier.

July 2009 Javascript/XUL development, Carra-consulting, Nantes.