

Alex Palesandro

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Education

October 2014 - Current

PhD in Computer Science - Université Lyon 3 Jean Moulin
MAGELLAN Research Team

Title: "Security Supervision framework for multi-cloud domains"

- Conceive a cross-layer and cross-provider security monitoring framework
- Automate security supervision, through an integrated management framework

2012 - March 2014

Master of Science in Computer Engineering

Polytechnic University of Turin / ENSIMAG - INPG – Double degree program

2008 - 2012

Bachelor of Science in Computer Engineering - Polytechnic University of Turin

Publications

December 2016

Overcoming Barriers for Ubiquitous User-Centric Healthcare Services

A. Palesandro, C. Ghedira-Guegan, M. Lacoste, N. Bennani

IEEE Cloud Computing 3 (6), 64-74

November 2016

Self-stabilizing Byzantine-Tolerant Distributed Replicated State Machine

Alexander Binun, Thierry Coupaye, Shlomi Dolev, Mohammed Kassi-Lahlou, Marc Lacoste, **Alex Palesandro**, Reuven Yagel, Leonid Yankulin

International Symposium on Stabilization, Safety, and Security of Distributed Systems

December 2015

Toward dynamic virtualized network services in telecom operator networks

I. Cerrato, **A. Palesandro**, F. Risso, M. Sune, H. Woesner, V. Vercellone

Elsevier Computer Networks - Special Issue on "Software Defined Networks and Virtualization"

30 June 2015

Nested Virtualization meets Micro-Hypervisors: Towards a Virtualization Architecture for User-Centric Multi-Clouds

A. Palesandro, M. Lacoste, C. Ghedira-Guegan, N. Bennani

SEC2 2015 - Co-located workshop with Compass '15

August 2015

Data Stabilization Enforcement via Active Monitoring the Cloud Infrastructure Consistency Case

Y. Reuven, S. Dolev, A. Binun, L. Yankulin, M. Lacoste, T. Coupaye, M. Kassi-Lahlou, **A. Palesandro**, A. Wailly

17th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS 2015)

September 2014

User-specific Network Service Functions in an SDN-enabled Network Node

I. Cerrato, **A. Palesandro**, F. Risso, T. Jungel, H. Woesner, M. Sune

IEEE EWSDN - Third European Workshop on Software-Defined Networks

Research/Work Experiences

October 2014 - Current

Cloud Security research engineer at Orange Labs, Issy Les Moulineaux, France

Security Department - Device and System Security Team

Topic: PhD title: "Security Supervision framework for multi-cloud domains"

Additional tasks:

- Installation, Configuration and management of a small OpenStack-based Private Cloud (Fuel, Kolla)
- Contribution to EU-Funded Research Project H2020 "Supercloud"

March 2014 - September 2014

Research internship at Polytechnic University of Turin, Italy

Computer Science Department - "Netgroup" Networking Research Team

Topic: **Design and deployment of a user-oriented NFV/SDN services leveraging cloud-computing technologies**

- **State of the art** in **NFV** and **SDN** technologies
- Study of different **virtualization technologies** with respect to NFV requirements
- Design and implementation of an **OpenStack**-based NFV/SDN service framework

February 2013 - July 2013

Research internship at Orange Labs, Issy Les Moulineaux, France

Security Department - Device and System Security Team

Topic: **Analysis and prototyping of nested virtualization-based cloud computing infrastructure**

- **State of art** in **nested virtualization security**
- Deployment of a nested virtualization platform, using **KVM** and **Xen**
- Analysis of the impact of **microkernel-based hypervisor** adoption
- Proposition of a **cloud computing architecture**, leveraging nested virtualization

March 2011 - July 2011

Research internship at Mario Boella" Research Institute, Turin, Italy

Infrastructures and Systems for Advanced Computing Laboratory

Topic: **Design and deployment of private cloud platform for scientific research**

- **State of the art** of **private/hybrid cloud computing platforms**.
- Deployment and configuration of an **OpenNebula private cloud solution** leveraging **XEN** and **KVM**.

IT skills

Cloud Computing

Virtualization technologies

Cloud toolkits

Security

Networking

OS

Networking

SDN controller

Networking

Programming

Language skills

Italian

French

English

Personal

Driving License

Deployment, configuration, performance tuning

Xen, **KVM**, **NOVA**, **VirtualBox**, **Docker**, **Nested Virtualization**, **Hypervisor Architecture**

OpenStack, **OpenNebula**

Firewall, VPN, **SDN security**

Linux security, **hypervisor security**, **OpenStack security**

OpenDaylight

OpenFlow, **OpenVSwitch**, xDPD

C, C++, Java, PHP, **Python**, **Bash scripting**

Native

Fluent

Very Good

TOEIC score: 965

B (Car driving license)