

## 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

October 2011 - March 2014

**Master of Science in Computer Engineering**

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

September 2008 - July 2011

**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"**

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 formulti-cloud domains"*

**Additional tasks:**

- Installation, Confiuration 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

Fluent

TOEIC score: 965

B (Car driving license)