Alex Palesandro

Date of birth	03/03/1989
Nationality	Italian
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Education

October 2014 - Current

PhD in Computer Science - Orange Labs - Université Lyon 3 Jean Moulin
   Security Department - Device and System Security Team
   Title: "Security Supervision framework for multi-cloud domains"
   • Realize a transparent overlay virtualization layer to federate multi-clouds
   • 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 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 - Software Defined Networks and Virtualization
Role: Co-author

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
Lille, France
Role: Co-author

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)
Edmonton, Canada
Role: Co-author

1-3 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
Budapest, Hungary
Role: Co-author and demo presenter

Research Experiences

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	Deployment, configuration, performance tuning
Virtualization technologies	**Xen**, **KVM**, NOVA, VirtualBox, **Docker**, **Nested Virtualization**, **Hypervisor Architecture**
Cloud toolkits	**OpenStack**, OpenNebula
Security	
Networking	Firewall, VPN, **SDN security**
OS	Linux security, **hypervisor security**, **OpenStack security**
Networking	
SDN controller	**OpenDaylight**
Networking	**OpenFlow, OpenVSwitch,** xDPD
Programming	C, C++, Java, PHP, **Python, Bash scripting**

Language skills

Italian	Native
French	Fluent
English	Very Good TOEIC score: 965

Personal

Driving License	B (Car driving license)