Daniel Ricardo dos Santos

CONTACT
INFORMATION

Location: Trento (TN), Italy
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AREAS OF
INTEREST

Computer and Information Security, Formal Methods, and Software Development.

EDUCATION

University of Trento - UNITN, Italy

PhD. in Computer Science   **11/2013 - Current**
- *Thesis:* Automatic Security Analysis of Business Protocols

Federal University of Santa Catarina - UFSC, Brazil

MSc. in Computer Science   **10/2011 - 08/2013**
- *Thesis:* A Dynamic Risk-based Access Control Architecture for Cloud Computing

BSc. in Computer Science   **03/2007 - 07/2011**
- *Final project:* Identity Management and Privacy in Cloud Computing

EXPERIENCE

Fondazione Bruno Kessler (FBK) & SAP Labs France

Early Stage Researcher   **09/2013 - Current**
- Early stage researcher in the SECENTIS research project.

SecPlus

Security Consultant   **10/2012 - 07/2013**
- Conducting web application penetration testing; Implementing secure software development lifecycle and other security solutions.

Networks and Management Laboratory - UFSC

Researcher   **04/2012 - 07/2013**
- Acting in research projects related to cloud computing security and monitoring.

AltoQi - Technology Applied to Engineering

C++ developer   **10/2011 - 04/2012**
- Developing CAD software for civil engineering.

Networks and Management Laboratory - UFSC

Undegraduate Researcher   **07/2010 - 07/2011**
- Researcher in the project "Identity Management and Privacy in Cloud Computing Environments".

Tutorial Education Program (PET Computação) - UFSC

Scholarship   **10/2007 - 03/2010**
- Managing research, teaching and outreach projects for undergraduate students.

SKILLS

Languages: Portuguese, English, basic Italian.

Programming Languages: Python, C/C++, Java, PHP, and JavaScript.

Others: penetration testing, vulnerability research, network and server administration.

PUBLICATIONS

D.R. dos Santos, S. Ranise, L. Compagna, S.E. Ponta. "Assisting the Deployment of Security-Sensitive Workflows by Finding Execution Scenarios" in Data and Applications Security and Privacy XXIX (DBSec2015), 2015

C. Bertolissi, D.R. dos Santos, S. Ranise. "Automated Synthesis of Run-time Monitors to Enforce Authorization Policies in Business Processes" in Proceedings of the 10th ACM Symposium on Information, Computer and Communications Security (ASIACCS2015), 2015

S. Dashevskyi, D.R. dos Santos, F. Massacci, A. Sabetta. "TESTREX: a Testbed for Repeatable Exploits" in Proceedings of the 7th Workshop on Cyber Security Experimentation and Test (CSET 14), 2014

P.A.F. Vitti, D.R. dos Santos, C.B. Westphall, C.M. Westphall, K.M.M. Vieira. "Current Issues in Cloud Computing Security and Management" in Proceedings of the 8th International Conference on Emerging Security Information, Systems and Technologies (SECURWARE2014), 2014

D.R. dos Santos, C.M. Westphall, C.B. Westphall. "A dynamic risk-based access control architecture for cloud computing" in Proceedings of the IEEE/IFIP Network Operations and Management Symposium (NOMS 2014)

C.B. Westphall et al. "Operation, Management, Security and Sustainability for Cloud Computing" in Revista de Sistemas de Informação da FSMA, vol. 2014, no. 13, 2014

E.A. Rigon, C.M. Westphall, D.R. dos Santos, C.B. Westphall. "A Cyclical Evaluation Model of Information Security Maturity" in Information Management and Computer Security, vol. 22, no. 3, 2014 PDF bib

P. Silva, C.B. Westphall, C.M. Westphall M. Mattos, D.R. dos Santos. "An Architecture for Risk Analysis in Cloud" in Proceedings of the 10th International Conference on Networking and Services (ICNS2014), 2014

D.R. dos Santos, T.J. Nascimento, C.M. Westphall, M.A.P Leandro, C.B. Westphall. "Privacy-preserving identity federations in the cloud: a proof of concept" in International Journal of Security and Networks, vol. 9, no. 1, 2014

D.R. dos Santos, C.M. Westphall, C.B. Westphall. "Risk-based Dynamic Access Control for a Highly Scalable Cloud Federation" in Proceedings of the 7th International Conference on Emerging Security Information, Systems and Technologies (SECURWARE2013), 2013

R.F. de Souza, C.B. Westphall, D.R. dos Santos, C.M. Westphall. "Challenges of Operationalizing PACS on Cloud Over Wireless Networks" in Proceedings of the 9th International Conference on Wireless and Mobile Communications (ICWMC 2013), 2013

R.F. de Souza, C.B. Westphall, D.R. dos Santos, C.M. Westphall. "A Review of PACS on Cloud for Archiving Secure Medical Images" in International Journal of Privacy and Health Information Management, vol. 1, no. 1, 2013

R.B. Brinhosa, C.M. Westphall, C.B. Westphall, D.R. dos Santos, F. Grezele. "A Validation Model of Data Input for Web Services" in Proceedings of the 12th International Conference on Networks (ICN 2013), 2013

M.A.P. Leandro, T.J. Nascimento, D.R. dos Santos, C.M. Westphall, C.B. Westphall. "Multi-Tenancy Authorization System with Federated Identity for Cloud-Based Environments Using Shibboleth" in Proceedings of the 11th International Conference on Networks (ICN 2012), 2012

D.R. dos Santos, C.M. Westphall, "Uma aplicação de privacidade no gerenciamento de identidades em nuvem com uApprove" in Anais do Simpósio Brasileiro em Segurança da Informação e de Sistemas Computacionais (SB-SEG2011), 2011

SECURITY ADVISORIES

CVE-2013-2618: Network Weathermap 0.97a Cross Site Scripting

CVE-2013-2619: Aspen 0.8 Directory Traversal

TEACHING ASSISTANCE

Operating Systems - UFSC 2013

Computer Networks - UFSC 2013

Applied Security (Offensive Technologies) - UNITN 2014

SCIENTIFIC AND PROFESSIONAL ASSOCIATIONS

IEEE Communications Society (2014)

FURTHER EDUCATION

Federal University of Santa Catarina Mathematics Summer School (2011)

Bolzano Startup Weekend (2013)

Marktoberdorf Summer School - Dependable Software Systems Engineering (2014)

IEEE Italy Section School of Career Boosting (2015)

AWARDS AND SCHOLARSHIPS

Scholarship for BSc. studies (PIBIC/CNPq, 2010-2011)

Scholarship for MSc. studies (REUNI/CNPq, 2012-2013)

EU grant for PhD studies (SECENTIS, 2013-2016)