Daniel Ricardo dos Santos

Personal and Contact Information

Location: Trento (TN), Italy

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Date of Birth: Feb. 6th, 1989

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Areas of Interest

Computer and Information Security; Software Engineering and Formal Methods; Machine Learning.

Education

University of Trento (UNITN), Italy

PhD. in Computer Science   **11/2013 - Current**

- *Thesis:* Automatic Security Analysis of Business Processes

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**

- *Thesis:* Identity Management and Privacy in Cloud Computing

Experience

Fondazione Bruno Kessler, Italy & SAP Labs France

Early Stage Researcher   **09/2013 - Current**

SecPlus - Florianópolis, Brazil

Information Security Consultant   **10/2012 - 07/2013**

Networks and Management Laboratory - UFSC - Florianópolis, Brazil

Researcher   **04/2012 - 07/2013**

AltoQi - Florianópolis, Brazil

C++ developer   **10/2011 - 04/2012**

Networks and Management Laboratory - UFSC - Florianópolis, Brazil

Undergraduate Researcher   **07/2010 - 07/2011**

Skills

Languages: Portuguese, English, basic Italian.

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

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

[1] L. Compagna, **D.R. dos Santos**, S.E. Ponta, S. Ranise. *"Cerberus: Automated Synthesis of Enforcement Mechanisms for Security-sensitive Business Processes"* in Proceedings of the 22nd International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS), 2016

[2] **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 (DBSec), 2015

[3] 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 (ASIACCS), 2015

[4] 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), 2014

[5] 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 (SECURWARE), 2014

[6] **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

[7] 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

[8] 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

[9] 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 (ICNS), 2014

[10] **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

[11] **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 (SECURWARE), 2013

[12] 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

[13] 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

[14] 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

[15] 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

[16] **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-SEG), 2011

SECURITY
ADVISORIES

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

CVE-2013-2619: Aspen 0.8 Directory Traversal

TEACHING
ASSISTANCE

Applied Security (Offensive Technologies) - UNITN, Italy - 2014

Operating Systems - UFSC, Brazil - 2013

Computer Networks - UFSC, Brazil - 2013

FURTHER
EDUCATION

SECENTIS Winter School - Security and Trust of Next Generation Enterprise Information Systems (2016)

IEEE Italy Section School of Career Boosting (2015)

Marktoberdorf Summer School - Dependable Software Systems Engineering (2014)

Bolzano Startup Weekend (2013)

Federal University of Santa Catarina Mathematics Summer School (2011)

AWARDS AND
SCHOLARSHIPS

Best Student Paper Award in the DBSec conference (2015)

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

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

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

SCIENTIFIC AND
PROFESSIONAL
ASSOCIATIONS

Association for Computing Machinery (ACM), 2015-current

IFIP Working Group on Data and Applications Security and Privacy, 2015-current

IEEE Communications Society, 2014-2015