Diego **Zamboni**

ORGANIZATIONAL LEADER · SENIOR SECURITY ARCHITECT · COMPUTER SCIENTIST

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I am a Senior Organizational Leader, Enterprise Security Architect and Computer Scientist with 32 years of experience building systems and leading teams and projects. I specialize in the areas of Computer Security, Cloud Computing and Configuration Management. I possess a strong combination of leadership, conceptual and technical knowledge with excellent communication skills.

Key skills

Leadership	32 years of team and project leadership experience; IT Enterprise Architecture.
Computer Security	Enterprise security architecture; virtualization and cloud computing security; governance, risk management and compliance; intrusion detection and prevention; software security and secure software development.
Cloud Computing	AWS architecture, infrastructure, development and security.
Communications and Research	Excellent written and spoken communication skills; research and teaching experience.
Research	Ph.D. in Computer Science, 9 years of experience at IBM Research.
Languages	Spanish (native), English (100%), German (B1 level).

Experience

Amazon Web Services
2021 – Present   Switzerland

SENIOR GLOBAL SECURITY ARCHITECT   Oct 2021 – Present

- I work with customers and within AWS to increase security awareness, design and build secure solutions, mentor and develop colleagues and customers in security best practices.
- As Lead Security Architect at the Stellantis *Virtual Engineering Workbench* (VEW) project, I have:
  - Established the VEW security workstream, define and promote security best practices and drive activities related to risk analysis, threat modeling and mitigation.
  - Established measurement mechanisms for status and metrics for security activities, which provide visibility to both technical and business stakeholders.
  - Established a *Security Champions* program to promote and transfer security knowledge.
  - Define and track security features to fulfill customer business requirements and AWS best practices.

GLOBAL SECURITY ARCHITECT   Sep 2021 – Sep 2022

- Worked with AWS global customers to improve security posture and promote secure design and implementation practices.
- In the Volkswagen Digital Production Platform (DPP) program, I established scalable and durable mechanisms to enable DPP partners to work securely in the DPP program. I also created and promoted security learning materials tailored for various roles within the project, and increased security awareness and knowledge by promoting a *Security Guardians* initiative across the organization.

Swisscom
2014 – 2021   Switzerland/U.S.A.

ENTERPRISE ARCHITECT AND IT CLOUDS SOLUTION SECURITY ARCHITECT   Apr 2019 – Sep 2021

- As a Solution Security Architect for IT Clouds, I was a member of the *Swisscom IT Clouds* leadership team:
  - I defined and manage yearly KPIs and the security features and characteristics of Swisscom's cloud offerings.
  - I ensured cloud platform and service compliance with internal, contractual and regulatory standards (e.g. ISO27001, ISAE3402/3000, FINMA and GDPR).
  - I established and manage the *Security Champions* initiative to promote and improve a culture of security responsibility.
  - I established organization-wide processes for risk management, threat modeling, audits and penetration testing.
  - I was the point of contact for CISO-level interactions with Swisscom's cloud customers.
- As an Enterprise Architect, I defined future Swisscom products and solutions as part of the *Swisscom Enterprise Architecture* team.

- Starting as a project lead and architect, I founded and led a team of up to 16 people that designed, implemented and operated the monitoring and logging capabilities for Swisscom's IaaS and PaaS evolving cloud offerings:
    – Unified diverse monitoring components into a cohesive framework, reducing costs and increasing efficiency by 20%.
    – Defined architecture and implemented customer-facing monitoring and logging services.
    – Designed and implemented the *Orchard* monitoring platform for Swisscom's *Application Cloud*.
    – Defined and implemented integrations between Jira and OpsGenie for alerting of user-reported incidents.
    – Managed business relationship and implemented Swisscom-wide use of OpsGenie for alert management.
    – Managed engineering relationship with VMware for integration of their products in Swisscom's monitoring systems.

CFEngine AS   *2011 – 2014*   *Norway/U.S.A. (remote)*

SENIOR SECURITY ADVISOR AND PRODUCT MANAGER   *Oct 2011 – Jun 2014*

- Developed the CFEngine language roadmap and security strategy.
- Acted as overall CFEngine Advocate, with a special focus on security.
- Published the book Learning CFEngine (O'Reilly Media), which was used for promotion and education.
- Established and led the *CFEngine Design Center* project through its initial implementation phase.

HP Enterprise Services   *2009 – 2011*   *Mexico*

ACCOUNT SECURITY OFFICER AND SERVICE DELIVERY CONSULTANT   *Nov 2009 – Oct 2011*

- Managed security-related topics for HP enterprise customers in Mexico and abroad.
- Managed all security-related aspects of the design, implementation and delivery of IT Outsourcing projects.
- Analyzed, designed and implemented solutions in the areas of system automation, configuration management, system administration, system design, virtualization, performance and security.

IBM Zurich Research Lab   *2001 – 2009*   *Switzerland*

RESEARCH STAFF MEMBER   *Oct 2001 – Oct 2009*

- Established and developed research projects in intrusion detection, malware containment, and virtualization security, including:
    – *Project Phantom*: Security for VMware virtual environments using virtual machine introspection.
    – *Billy Goat*: An active worm-detection and capture system, deployed in the IBM internal and external networks.
    – *Router-based Billy Goat*: An active worm-capture device deployed at the network boundary and coupled with a border router to effectively and automatically spoof every unused IP address outside the local network.

National Autonomous University of Mexico (UNAM)   *1991 – 1996*   *Mexico*

HEAD OF COMPUTER SECURITY AREA AND SYSTEM ADMINISTRATOR   *Nov 1991 – Aug 1996*

- Established UNAM's first Intrusion Response Team, which has since evolved into a much larger organization.
- Managed security services for the supercomputing organization and for the whole University, including incident response, security information, auditing and teaching.
- Established the *International Computer Security Day*, which has grown and divided into the *Computer Security Day* (a one-day event) and the *Seguridad en Cómputo* (Computer Security) conference (a multi-day event).
- System Administrator at UNAM's Supercomputing Center, managing UNAM's Cray Y-MP Supercomputer and related systems.

Education

Ph.D. in Computer Science, Purdue University   *West Lafayette, IN, U.S.A.*   *1996–2001*

Using Internal Sensors for Computer Intrusion Detection, Advisor: Eugene H. Spafford.

Certifications

Research, Publications, Teaching and References

Books: Learning CFEngine (2012), Learning Hammerspoon (2018), Literate Configuration (2019), Publishing with Emacs, Org-mode and Leanpub (2021).

References available upon request. Full Curriculum Vitæ available at https://zzamboni.org/vita/.