

Marco De Benedictis

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PhD and senior security engineer with several years of experience researching and consulting on high-end cybersecurity projects within the private and public sectors, now focusing on Kubernetes, cloud native security and open source software.

WORK EXPERIENCE

Cloud Native Senior Consultant - ControlPlane. London, UK 05/22 - ongoing

Threat modelling cloud-native deployments for clients, to assess risk, define high-impact threats and applicable security controls to help de-risk them. Focusing on Kubernetes and container security, and in securing cloud services, infrastructures, and pipelines. Helping companies build DevSecOps capabilities and migrate existing workflows and processes to more agile, cloud-native solutions. Training clients on containers and cloud-native security. Contributions to the CNCF on security projects and initiatives within the Security TAG. Speaker at KubeCon + CloudNativeCon Europe 2024 and two Kubernetes Community Days. Instructor for the "Kubernetes Security: Attacking and Defending Kubernetes" course for O'Reilly Online.

Security Engineer - 7Layers. Turin, IT 02/20 - 05/22

Research & Development of cyber-security solutions that both leverage proprietary technologies and custom-built tools for the detection of security incidents and their remediation in heterogeneous target infrastructures. Focus on cloud infrastructures and cloud-native technologies, interested in Kubernetes and container security. Technical proficiency on advanced endpoint detection & response, log management & aggregation, and security automation tools.

Visiting Researcher - Security Lab of Hewlett Packard Enterprise. Bristol, UK 10/18 - 12/18

Designed a novel extension to the Trusted Platform Module 2.0 architecture to support virtualised environments by binding the physical device with one or more virtual TPM instances as part of the PhD research.

Security Researcher - Polytechnic University of Turin. Turin, IT 2/16 -11/19

Designed and developed a trust architecture tailored for a lightweight cloud environment and integrated in a Network Functions Virtualisation platform. Designed and developed a run-time remote attestation technology for containers. Built a multi-container design for a virtual network function with mandatory access control policies to secure inter-container communication and shared data volumes. Contributed to the design and architecture of the NFV platform defined within the SHIELD Horizon 2020 project. Authored 9 papers in the field of cybersecurity that were presented in international conferences (IEEE) and published in peer-reviewed scientific journals.

CORE SKILLS

DevSecOps
Kubernetes
Docker
Linux

Public Cloud (AWS, GCP)
Infrastructure as Code
CI/CD Pipelines
Software Supply Chain Security

Threat Modelling
Vulnerability Management
CNAPP
Security Operations

EDUCATION

Polytechnic University of Turin, IT - Computer and Network Security Group, 2016 - 2020

PhD in Computer and Control Engineering

Polytechnic University of Turin, IT - Emphasis on Networking, 2013-2015

M.S. in Computer Engineering, magna cum laude

CERTIFICATIONS

AWS Certified Security - Specialty

Issued 12/23 - Expires 12/26

Google Professional Cloud Security Engineer - Google Cloud

Issued 08/23 - Expires 08/25

Certified Kubernetes Security Specialist - Cloud Native Computing Foundation

Issued 04/23 - Expires 04/25

Certified Kubernetes Administrator - Cloud Native Computing Foundation

Issued 10/22 - Expires 10/25

Palo Alto Networks Systems Engineer - Prisma Cloud Associate

Issued 02/21 - Expired 02/23

Okta Certified Professional

Issued 12/20 - Expired 12/22