



Guardians of the IoT Realm Defending Against Evolving Cyber Threats

Marco Dal Pino

The background image is a composite of a realistic night-time aerial view of a suburban neighborhood and a futuristic digital overlay. The realistic part shows houses, trees, and cars on a street. The digital overlay consists of glowing blue and orange lines, circles, and icons (like a padlock and a Wi-Fi symbol) that suggest a networked or 'smart' environment. The text is centered over the image in a large, white, sans-serif font.

The IoT-Cybersecurity Dichotomy: A Catalyst and a Challenge



Eavesdropping and Surveillance



Physical Tampering



Unauthorized Access



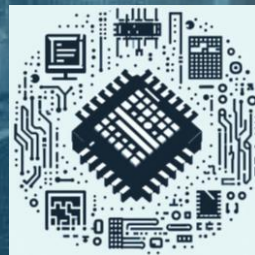
Botnets and DDoS Attacks



Supply Chain Attacks



Data Theft and Privacy Breaches



Firmware and Software Exploits



Device Manipulation and Control

Unraveling the Anatomy of IoT-Related Threats



Smart Refrigerator Spam

Refrigerator compromised

Stuxnet and Industrial IoT (IIoT)

Malware in Ind. Ctrl System in Iran's nuclear facilities

Healthcare IoT Breach

Hospital's IoT-connected infusion pumps

Mirai Botnet and Massive DDoS Attacks

insecure IoT devices

Smart Home Invasion

Ring doorbell cameras

Jeep Cherokee Hack

insecure IoT in connected vehicles



Hacking the IoT: Strategies and Techniques



The Evolving Threat Landscape: Staying Ahead of the Curve

The background is a blue-tinted image of a futuristic cityscape. In the foreground, there are various icons and symbols: a globe, a padlock, a laptop, a truck, a Wi-Fi symbol, a brain, a cloud, a shield, a house, a bicycle, a gear, a lightbulb, and a hand. The text "AI-driven attacks" is overlaid on the left side of the image.

AI-driven attacks

Supply chain vulnerabilities



Architecting a Fortified Future: Collaboration and Resilience



User awareness

Collaborative strategies

Industry standards

Organizations, governments, and individuals

The background is a dark, blue-toned image. In the center, a glowing globe is surrounded by a complex network of white lines and dots, resembling a digital or cybernetic map. The globe is held within the cupped hands of a robotic figure. The figure's arms and hands are visible, with a metallic, segmented appearance. A shield-shaped emblem, composed of vertical lines, is positioned directly below the globe, between the hands. The overall aesthetic is high-tech and futuristic.

Empowering the CyberGuardians

Knowledge, collaboration, and determination

The image features a person in a dark hoodie sitting at a desk, working on a laptop. The background is a dark, digital-themed space with a large, textured 3D question mark floating in the center. Several smaller, glowing digital icons are scattered around, including question marks, a lightbulb, and a padlock, all connected by a network of thin white lines. The bottom of the image shows a layer of soft, white clouds.

Q&A

Marco Dal Pino

- 30+ years in IT (Developer, Architect, Consultant, PM, Trainer, MCT)
- Speaker, Community addicted
- IoT Influencer



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