Guardians of the IoT Realm
Defending Against Evolving Cyber Threats

Marco Dal Pino

The IoT-Cybersecurity Dichotomy: A Catalyst and a Challenge

Eavesdropping and Surveillance

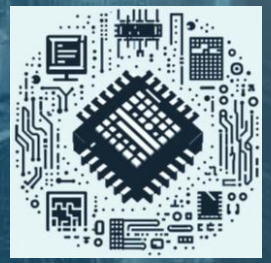
Physical Tampering

Unauthorized Access

Botnets and DDoS Attacks

Data Theft and Privacy Breaches

Supply Chain Attacks



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
IoT
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

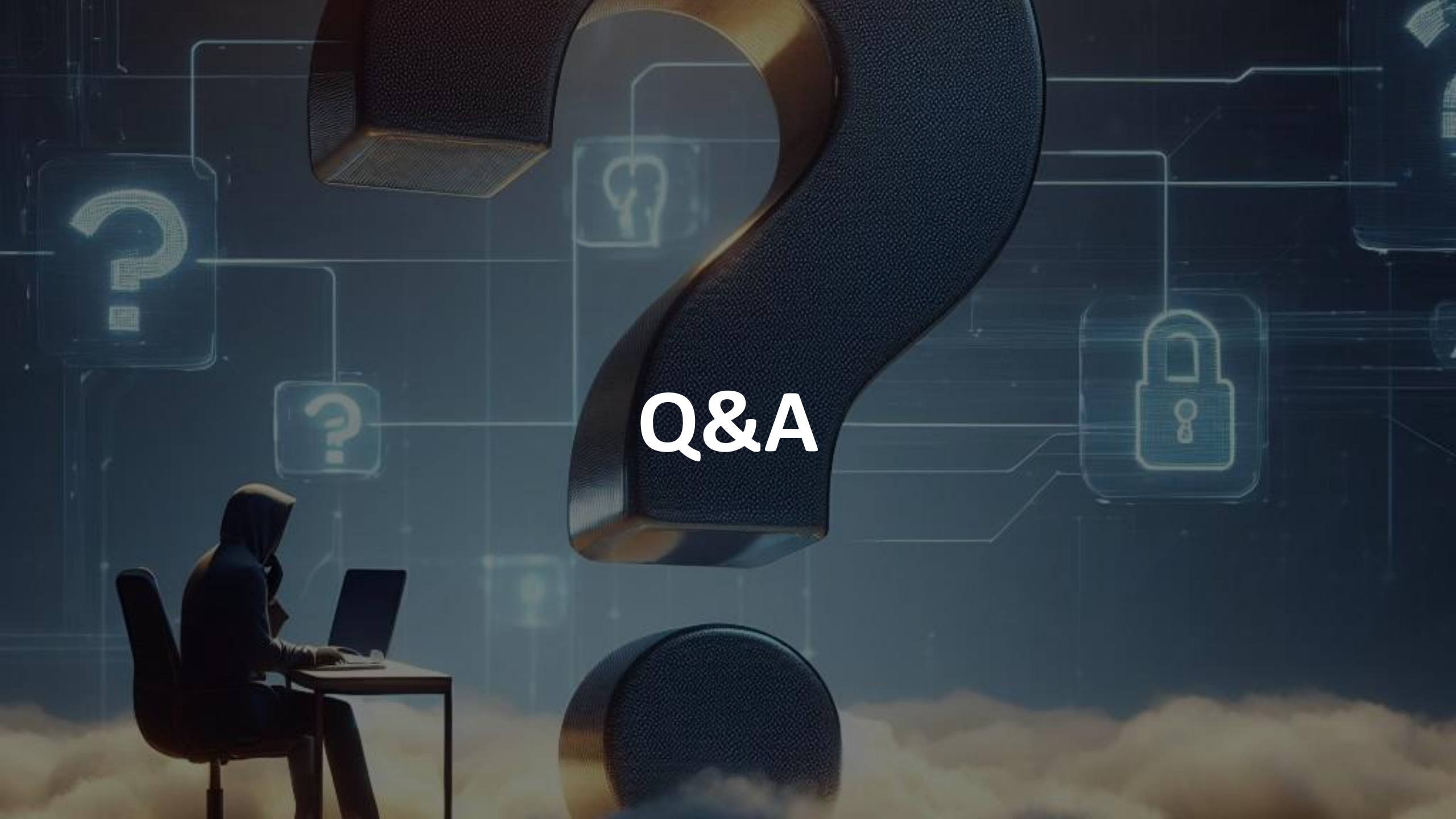
AI-driven attacks
IoT
Supply chain vulnerabilities

Architecting a Fortified Future: Collaboration and Resilience

User awareness
Collaborative strategies
IoT
Industry standards
Organizations, governments, and individuals

Empowering the CyberGuardians

Knowledge, collaboration, and determination


Q&A

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

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