Certnexus - Certified Internet of Things Security Practitioner

Kód kurzu: CIoTSP

This course is designed for practitioners who are seeking to demonstrate a vendor-neutral, cross-industry skill set that will enable them to design, implement, operate, and/or manage a secure IoT ecosystem.

Pro koho je kurz určen

This course is designed for IoT practitioners who are looking to improve their skills and knowledge of IoT security and privacy. This course is also designed for students who are seeking the CertNexus Certified Internet of Things Security Practitioner (CIoTSP) certification and who want to prepare for Exam ITS-110.

Požadované vstupní znalosti

To ensure your success in this course you should have a fundamental understanding of IoT ecosystems, which you can obtain by taking the following CertNexus course: Certified Internet of Things (IoT) Practitioner.

Studijní materiály

Official guide book for this course

Osnova kurzu

Lesson 1: Managing IoT Risks

- Map the IoT Attack Surface
- Build in Security by Design

Lesson 2: Securing Web and Cloud Interfaces

- Identify Threats to IoT Web and Cloud Interfaces
- Prevent Injection Flaws
- Prevent Session Management Flaws
- Prevent Cross-Site Scripting Flaws
- Prevent Cross-Site Request Forgery Flaws
- Prevent Unvalidated Redirects and Forwards

Lesson 3: Securing Data

- Use Cryptography Appropriately
- Protect Data in Motion
- Protect Data at Rest
- Protect Data in Use

Lesson 4: Controlling Access to IoT Resources

- Identify the Need to Protect IoT Resources
- Implement Secure Authentication
- Implement Secure Authorization
- Implement Security Monitoring on IoT Systems

Lesson 5: Securing IoT Networks

- Ensure the Security of IP Networks
- Ensure the Security of Wireless Networks
- Ensure the Security of Mobile Networks
- Ensure the Security of IoT Edge Networks

Lesson 6: Ensuring Privacy

- Improve Data Collection to Reduce Privacy Concerns
- Protect Sensitive Data

GOPAS Praha
Na Strži 2097/63
140 00 Praha 4 - Krč
Tel.: +420 226 201 390
info@gopas.cz

GOPAS Brno
Nové sady 996/25
602 00 Brno
Tel.: +420 530 513 590
info@gopas.cz

GOPAS Bratislava
Dr. Vladimíra Clementisa 10
Bratislava, 821 02
Tel.: +421 902 903 132
info@gopas.sk

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- Dispose of Sensitive Data

Lesson 7: Managing Software and Firmware Risks

- Manage General Software Risks
- Manage Risks Related to Software Installation and Configuration
- Manage Risks Related to Software Patches and Updates
- Manage Risks Related to IoT Device Operating Systems and Firmware

Lesson 8: Promoting Physical Security

- Protect Local Memory and Storage
- Prevent Physical Port Access

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