IoT Security Technician Skill Zone – CSSIA.ORG

1. Device Management

1.1 Configuration Management

1. Describe the role of configuration management in securing an IoT environment.
2. Demonstrate/apply secure configuration management techniques.
3. Configure hardware-based security devices.
4. Configure network-based security devices.
5. Configure software-based security devices.
6. Describe how configuration management can maintain the security of an IoT environment.

Configuration Management

Configuration management (CM) is a systems engineering process for establishing and maintaining consistency of a product's performance, functional, and physical attributes with its requirements, design, and operational information throughout its life.

Locking down and properly configuring IoT devices, servers, workstations and network infrastructure platforms has long been a mainstay of best practices in information security.

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This typically includes securing local services and applications, setting permissions on files and directories, improving access control parameters such as SSH, limiting privileged user access, and tweaking device configurations

Existing Course Cross Reference

Cisco Networking Academy Courses

IT Essentials

Cisco Partner Courses

Security+ (CSSIA.ORG)

Non-Cisco Partner Courses

CISSP (CSSIA.ORG)

Curriculum Resources

Videos

YouTube.com – Configuration Management

YouTube.com – Cisco Nessus Configuration Management

Web Links

Configuration Management: Best Practices White Paper

SANS Institute InfoSec Reading Room, Secure Configuration Management Demystified

NIST Special Publication 800-82 Section 6.2

Textbooks

Practical Internet of Things Security
Chapter 6
Raspberry Pi Networking Cookbook
Chapter 2, 3, 5

NIST SPECIAL PUBLICATION 800-70 Revision 3
National Checklist Program for IT Products:
Guidelines for Checklist Users and Developers
12/11/2015

Assessment Resources

Labs

None

Quizzes/Exams

CSSIA CISSP Course

Security Operations – Chapter Exam

Quizlet.com

Configuration Management Flashcards

Configuration Planning and Management flashcards