

Learning Guide Unit 8

Overview

Unit 8 - The Application Layer and Network Security

Topics

- The Domain Name System
- Electronic mail
- The Hyper-Text Transfer Protocol
- Code-Execution Intrusion
- Stack Buffer Overflow
- Heap Buffer Overflow
- Network Intrusion Detection

Learning Outcomes

- Examine cryptographic standards for secure network communication.
- Explain the impact of using UDP for DNS requests when packets get lost.
- Identify the need for MIME headers for web pages.
- Describe a Linux C code protection against stack buffer overflow attacks.

Tasks

- Peer-assess Unit 7 Assignment
- Read through the Learning Guide and the Reading Assignment
- Complete the Discussion Assignment by posting in the Discussion Forum
- Respond to and rate three of your fellow classmates' posts in the Discussion Forum
- Complete and submit the Learning Journal
- Take and submit the Self-Quiz
- Take the Review quiz
- Complete and Submit the CS 2204 Course Evaluation

