

Fundamentals of Information Technology Security  
CSEC 1110  
Lab 08

- Contact your instructor with your questions about the assignments.
- The student must insure all the answers are free from any malware.
- The student must insure all answers are legal as defined by the class syllabus.
- All parts of your answers must be neat and easy to read.
- Paragraphs are at least four properly constructed English sentences.
- Embedding documents within documents does not work with the D2L Bright Space assignments.
- Plagiarism will not be tolerated.
- Unless noted, all lab sections must be done as unprivileged login.

**Lab 08: Network of Networks**

- 8.1. Each part is worth six points for a maximum of twenty-five points. Upload your answer to D2L Bright Space Assignment section 8.1 before the due date found in the csec1110a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file containing your answers.
  - 8.1.1. Provide the grant of permission to collect network traffic on the network. All tests must occur during the permission time. A properly signed permission statement is required for any lab section credit. [ 6 points ]
  - 8.1.2. Configure host1 as a file server. Provide all the configuration files. This must be an unencrypted system. [ 6 points ]
  - 8.1.3. Configure host2 as a client system for host1. Provide all the configuration files. [ 6 points ]
  - 8.1.4. Provide the Wireshark capture of a file being transferred between host1 and host2. [ 6 points ]
  - 8.1.5. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used. [ 1 point ]
  
- 8.2. Each part is worth six points for a maximum of twenty-five points. Each part is worth four points for a maximum of twenty-five points. Upload each section answer D2L Bright Space Assignment section 8.2 before the due date found in the csec1110a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file containing your answers.
  - 8.2.1. Configure host1 for IPsec. Provide all the configuration files. [ 6 points ]
  - 8.2.2. Configure host2 for IPsec. Provide all the configuration files. [ 6 points ]
  - 8.2.3. Provide a log file entry from host1 successfully show IPsec connection to host2. [ 6 points ]
  - 8.2.4. Provide a log file entry from host2 successfully show IPsec connection to host1. [ 6 points ]
  - 8.2.5. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used. [ 1 point ]
  
- 8.3. Each part is worth six points for a maximum of twenty-five points. Each part is worth four points for a maximum of twenty-five points. Upload each section answer D2L Bright Space Assignment section 8.3 before the due date found in the csec1110a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file containing your answers.
  - 8.3.1. Provide the grant of permission to collect network traffic on the network. All tests must occur during the permission time. A properly signed permission statement is required for any lab section credit. [ 8 points ]
  - 8.3.2. Provide a Wireshark capture of the unencrypted file transfer over IPsec between host1 and host2. [ 8 points ]
  - 8.3.3. Provide a Wireshark capture of the ping command over IPsec between host1 and host2. [ 8 points ]
  - 8.3.4. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used. [ 1 point ]
  
- 8.4. Each part is worth five points for a maximum of twenty-five points. Each part is worth four points for a maximum of twenty-five points. Upload each section answer D2L Bright Space Assignment section 8.4 before the due date found in the csec1110a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file containing your answers.
  - 8.4.1. Provide the grant of permission to collect network traffic on the network. All tests must occur during the permission time. A properly signed permission statement is required for any lab section credit. [ 8 points ]
  - 8.4.2. Provide the output of a tool in Kali not used in this class. [ 8 points ]
  - 8.4.3. Provide at least a paragraph explaining the results of the tool. [ 8 points ]
  - 8.4.4. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used. [ 1 point ]