

Fundamentals of Information Technology Security
CSEC 1110
Lab 07

- 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 07: Connecting Computers

- 7.1. Upload each section answer D2L Bright Space Assignment section 7.1 before the due date found in the csec1110a.pdf document. The text must be readable by the instructor. Submit a Windows or UNIX text file with the appropriate Windows extension.
 - 7.1.1. Provide the grant of permission to capture packets 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]
 - 7.1.2. Provide a properly formatted Wireshark or similar system packet capture showing only a TCP three way hand shake. [6 points]
 - 7.1.3. Provide a properly formatted Wireshark or similar system packet capture showing only an ARP request and response. [6 points]
 - 7.1.4. Provide a properly formatted Wireshark or similar system packet capture showing only a neighbors multicast. [6 points]
 - 7.1.5. 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]
- 7.2. Upload your answer to D2L Bright Space Assignment section 7.2 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.
 - 7.2.1. Provide the grant of permission to port scan on the network. All tests must occur during the permission time. A properly signed permission statement is required for any lab section credit. [5 points]
 - 7.2.2. Report the scanner system IP addresses and scanner version. The scanner host and target systems may not be the same system. Please label your answer. [4 points]
 - 7.2.3. Provide a successful ping output from the scanning host to the host to be scanned. [5 points]
 - 7.2.4. Report all the findings of an external base port scanner similar to NMAP against a Windows host utilizing "Quick scan plus". The timestamps must be in Central Time or UTC time. Please label your answer. [5 points]
 - 7.2.5. For each open port found, explain why it should or should not be open. [5 points]
 - 7.2.6. 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]
- 7.3. Upload each section answer D2L Bright Space Assignment section 7.3 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.
 - 7.3.1. Provide the grant of permission to port scan on the network. All tests must occur during the permission time. A properly signed permission statement is required for any lab section credit. [5 points]
 - 7.3.2. Report the scanner system IP addresses and scanner version. The scanner host and target systems may not be the same system. Please label your answer. [4 points]
 - 7.3.3. Provide a successful ping output from the scanning host to the host to be scanned. [5 points]
 - 7.3.4. Report all the findings of an external base port scanner similar to NMAP against a Linux host utilizing "Quick scan plus". The timestamps must be in Central Time or UTC time. Please label your answer. [5 points]
 - 7.3.5. For each open port found, explain why it should or should not be open. [5 points]
 - 7.3.6. 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]
- 7.4. Upload each section answer D2L Bright Space Assignment section 7.4 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.
 - 7.4.1. Provide the grant of permission to port scan on the network. All tests must occur during the permission time. A properly signed permission statement is required for any lab section credit. [5 points]

- 7.4.2. Report the scanner system IP addresses and scanner version. The scanner host and target systems may not be the same system. Please label your answer. [4 points]
- 7.4.3. Provide a successful ping output from the scanning host to the host to be scanned. [5 points]
- 7.4.4. Report all the findings of an external base port scanner similar to NMAP against a game or similar host utilizing "Quick scan plus". The timestamps must be in Central Time or UTC time. Please label your answer. [5 points]
- 7.4.5. For each open port found, explain why it should or should not be open. [5 points]
- 7.4.6. 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]