

Fundamentals of Information Technology Security
CSEC 1110
Lab 10

- Contact your instructor with your questions about the assignments.
- The student must insure all the answers are free from any malware.
- The student must ensure 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.
- Labeling answers is highly recommended.

10. Lab 10: Network Encryption

- 10.1. Upload each answer to the D2L Bright Space Assignment section 10.1 before the due date found in the csec1110a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing the following.
 - 10.1.1. 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.
 - 10.1.2. 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.
 - 10.1.3. Provide the IP address of the OSSEC server and OSSEC host to be scanned.
 - 10.1.4. Identify two different NMAP scripts to run against OSSEC systems.
 - 10.1.5. Explain the function of each select NMAP test and why the test needs to be run.
 - 10.1.6. Provide a log entry from the OSSEC server showing each NMAP scan against each host.
 - 10.1.7. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.

- 10.2. Upload each answer to the D2L Bright Space Assignment section 8.4 before the due date found in the csec1110a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing the following.
 - 10.2.1. 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.
 - 10.2.2. Provide the output of a tool in Kali not used in this class.
 - 10.2.3. Provide at least a paragraph explaining the results of the tool.
 - 10.2.4. In a paragraph, explain what the tool does. Remember to cite your sources.
 - 10.2.5. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.

- 10.3. Upload each answer to the D2L Bright Space Assignment section 10.1 before the due date found in the csec1110a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing the following.
 - 10.3.1. Provide the complete text of a job advertisement related to your major you might apply.
 - 10.3.2. Provide a complete copy of your resume for the submitted job advertisement. The resume must include.
 - 10.3.2.1. Your Name
 - 10.3.2.2. Your Professional Contact Information
 - 10.3.2.3. No spelling or grammar errors
 - 10.3.2.4. How you meet or will meet each requirement in the job advertisement
 - 10.3.2.5. The resume communicates all requested information in a very quick reading.
 - 10.3.3. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.

- 10.4. Upload your answer to the D2L Bright Space Assignment section 10.4 before the due date found in the csec1110a.pdf document. In a perfect world, you should complete all the lab sections before completing this lab section. However, you must wait to complete this lab until week 14 of the semester. Submit a Portable Document Format (PDF) or word processing file containing your answers.
 - 10.4.1. Identify the lab or lab section that was most difficult for you. Provide at least one sentence explaining why this was the most difficult lab or lab section.
 - 10.4.2. Identify the lab or lab section that was the easiest for you. Provide at least one sentence explaining why this was the easiest lab or lab section.

- 10.4.3. Identify the lab or lab section you learned the most. Provide at least one sentence explaining why you learned the most from this lab or lab section.
- 10.4.4. Identify the lab or lab section that you think needed more detail. Provide at least one sentence explaining why you think more detail is needed.
- 10.4.5. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.