

Fundamentals of Information Technology Security
CSEC 1110
Lab 09

- 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.

9. Lab 09: End to End Networking

- 9.1. Upload each answer to the D2L Bright Space Assignment section 9.2 before the due date found in the csec1110a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing the following.
 - 9.1.1. 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.
 - 9.1.2. 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.
 - 9.1.3. Provide the IP address of the host to be scanned.
 - 9.1.4. Report all the findings of an external base port scanner like NMAP against a Linux host utilizing "Intense Scan, all TCP ports". The timestamps must be in Central Time or UTC time. Please label your answer.
 - 9.1.5. For each open port found, explain why it should or should not be open.
 - 9.1.6. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.
- 9.2. Upload each answer to the D2L Bright Space Assignment section 9.3 before the due date found in the csec1110a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing the following.
 - 9.2.1. 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.
 - 9.2.2. 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.
 - 9.2.3. Provide the IP address of the host to be scanned.
 - 9.2.4. Report all the findings of an external base port scanner like NMAP against a game or similar host utilizing "Intense Scan, all TCP ports". The timestamps must be in Central Time or UTC time. Please label your answer.
 - 9.2.5. For each open port found, explain why it should or should not be open.
 - 9.2.6. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.
- 9.3. Upload each answer to the D2L Bright Space Assignment section 9.4 before the due date found in the csec1110a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing the following.
 - 9.3.1. Provide evidence of installing OSSEC on a host as a OSSEC server.
 - 9.3.2. Provide evidence OSSEC starts automatically at host boot.
 - 9.3.3. Provide a copy of the OSSEC configuration file.
 - 9.3.4. In one paragraph, explain what OSSEC does in terms of security. Remember to cite your sources.
 - 9.3.5. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.
- 9.4. Upload each answer to the D2L Bright Space Assignment section 9.4 before the due date found in the csec1110a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing the following.
 - 9.4.1. Provide evidence of installing OSSEC on a Windows host.
 - 9.4.2. Provide evidence OSSEC starts automatically at host boot.
 - 9.4.3. Provide a copy of the OSSEC configuration file.
 - 9.4.4. Show on the OSSEC server the Windows host is connected.
 - 9.4.5. Show on the OSSEC server entries from the Windows host.

9.4.6. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.