- 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.

9. **Lab 09: End to End Networking**
    9.1. Each part is worth five points for a maximum of twenty-five points. Upload each D2L Bright Space Assignment section 9.1 before the due date found in the 2236a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file(s) containing your answers.
        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. [5 points]
        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. [4 points]
        9.1.3. Provide a successful ping output from the scanning host to the host to be scanned. [5 points]
        9.1.4. Report all the findings of an external base port scanner similar to NMAP against a Windows host utilizing "Intense Scan, all TCP ports". The timestamps must be in Central Time or UTC time. Please label your answer. [5 points]
        9.1.5. For each open port found, explain why it should or should not be open. [5 points]
        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. [1 point]

    9.2. Each part is worth five points for a maximum of twenty-five points. Upload each D2L Bright Space Assignment section 9.2 before the due date found in the 2236a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file(s) containing your answers.
        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. [5 points]
        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. [4 points]
        9.2.3. Provide a successful ping output from the scanning host to the host to be scanned. [5 points]
        9.2.4. Report all the findings of an external base port scanner similar to 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. [5 points]
        9.2.5. For each open port found, explain why it should or should not be open. [5 points]
        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. [1 point]

    9.3. Each part is worth five points for a maximum of twenty-five points. Upload D2L Bright Space Assignment section 9.3 before the due date found in the 2236a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file(s) containing your answers.
        9.3.1. 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]
        9.3.2. 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]
        9.3.3. Provide a successful ping output from the scanning host to the host to be scanned. [5 points]
        9.3.4. Report all the findings of an external base port scanner similar to 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. [5 points]
        9.3.5. For each open port found, explain why it should or should not be open. [5 points]
        9.3.6. 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]

    9.4. 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 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.

9.4.1. Provide evidence of installing OSSEC on a host. [6 points]

9.4.2. Provide evidence OSSEC starts automatically at host boot. [6 points]

9.4.3. Provide a copy of the OSSEC configuration file. [6 points]

9.4.4. In one paragraph, explain what OSSEC does in terms of security. [6 points]

9.4.5. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used. [1 point]