

Fundamentals of Information Technology Security  
CSEC 1110  
Lab 04

- 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.

**4. Lab 04: Authenticating People**

- 4.1. Upload each answer to the D2L Bright Space Assignment section 4.1 before the due date found in the csec1110a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing the following. Put your answer in a single document.
  - 4.1.1. This section is based on the SANS Top 6 Essential Log Reports found on the D2L site. Provide the complete text or XML log entry from a system you control showing "Failure and Critical Error Report" issue. Windows systems will report event id 4875, 4881, 5025, or equivalent. Please label your answer.
  - 4.1.2. In at least one sentence, explain how the log entry fits with the requested log report category.
  - 4.1.3. This section is based on the SANS Top 6 Essential Log Reports found on the D2L site. Provide the complete text or XML log entry from a system you control showing "Failure and Critical Error Report" issue for a Linux system.
  - 4.1.4. In at least one sentence, explain how the log entry fits with the requested log report category.
  - 4.1.5. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.
- 2.2. Upload each answer to the D2L Bright Space Assignment section 4.2 before the due date found in the csec1110a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing the following. Put your answer in a single document.
  - 2.2.1. Provide evidence of successfully logging into the cloud provider service using two-factor authentication.
  - 2.2.2. Provide evidence of failing to log into the cloud provide service using two factor authentication.
  - 2.2.3. Identify an operating system and provide information/directions on how to add multi-factor authentication to an operating system of your choice.
  - 2.2.4. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.
- 2.3. Upload each answer to the D2L Bright Space Assignment section 4.3 before the due date found in the csec1110a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing the following. Put your answer in a single document.
  - 2.3.1. Identify the country, local jurisdiction having authority, and your legal requirements for each of the following. Include your information source and your obligation for each item.
    - 2.3.1.1. You find someone using another login name other than assigned.
    - 2.3.1.2. You find child pornography on a system.
    - 2.3.1.3. You find evidence of personal use on a system.
    - 2.3.1.4. You find evidence of fraud on a system.
    - 2.3.1.5. You find evidence of malware creation on a system.
  - 2.3.2. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.
- 2.4. Upload each answer to the D2L Bright Space Assignment section 4.4 before the due date found in the csec1110a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing the following. Put your answer in a single document.
  - 2.4.1. Provide evidence of backup of all home directory files on a host. At least 50 files must be found in the home directory.
  - 2.4.2. Provide evidence of securely erasing all home directory files from selected host.
  - 2.4.3. Provide evidence of successfully restoring all home directory files on the selected host.
  - 2.4.4. Provide the output of a malware scan on the selected host.
  - 2.4.5. In a paragraph, explain how the backups and malware scans reduce risk on the selected host.

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