

Fundamentals of Information Technology Security
CSEC 1110
Lab 02

- 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.

2. Lab 02: Controlling Files

- 2.1. Upload each answer to the D2L Bright Space Assignment section 2.1 before the due date found in the csec1110a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing the following. Use the Center for Internet Security (CIS) recommendation.
 - 2.1.1. Provide all your “General Setting Policy” settings for your router/firewall.
 - 2.1.2. Provide all your “Users Management” settings for your router/firewall.
 - 2.1.3. Provide all your “Password Policy” settings for your router/firewall.
 - 2.1.4. Explain all settings that cannot be configured according to the recommendations.
 - 2.1.5. 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 2.2 before the due date found in the csec1110a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing the following.
 - 2.2.1. Provide all your “Firewall Policy” settings for your router/firewall.
 - 2.2.2. Provide all your “Service Configuration” settings for your router/firewall.
 - 2.2.3. Provide all your “Logging” settings for your router/firewall.
 - 2.2.4. Provide documentation of all firewall settings.
 - 2.2.5. Provide documentation of all NAT/PAT settings.
 - 2.2.6. Explain all settings that cannot be configured according to the recommendations.
 - 2.2.7. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.

- 2.3. Upload each answer to the D2L Bright Space Assignment section 2.3 before the due date found in the csec1110a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing the following.
 - 2.3.1. Show the state of updates for the router/firewall. Explain why the system is not current with updates.
 - 2.3.2. Show the additional installed packages for the router/firewall.
 - 2.3.3. Provide at least two IPv4 DHCP log entries including mac address and lease ending day/time.
 - 2.3.4. Provide at least two IPv6 DHCP log entries including mac address and lease ending day/time.
 - 2.3.5. Provide a list of at least 50 states of pfTop.
 - 2.3.6. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.

- 2.4. Upload each answer to the D2L Bright Space Assignment section 2.4 before the due date found in the csec1110a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing the following.
 - 2.4.1. 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 “Authentication and Authorization Report” issue for a Windows system. Windows systems will report event id 4624 or equivalent.
 - 2.4.2. In at least one sentence, explain how the log entry fits with the requested log report category.
 - 2.4.3. 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 “Authentication and Authorization Report” issue for a Linux system.
 - 2.4.4. In at least one sentence, explain how the log entry fits with the requested log report category.
 - 2.4.5. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used.