

Linux 2  
CPTR 2234  
Lab 07

- 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.
- Submit your answers in the appropriate file type.
- Embedding documents within documents does not work with the D2L Bright Space assignments.
- Plagiarism will not be tolerated.

### Lab 07: Linux Server

- 7.1. Upload each section answer to the D2L Bright Space Assignment section 7.1 before the due date found in the 2234a.pdf document. Use the **script** command or a **putty log file (printable output only)**. Your answers must appear in your answer in the same order as the lab. The file must be human readable text only and must show your login name and all entered commands. Submit a Windows or UNIX text file with the appropriate Windows extension.
  - 7.1.1. If necessary, install SELinux on one of the hosts.
  - 7.1.2. Provide a copy of any configuration files for SELinux.
  - 7.1.3. Identify and installed access controls.
    - 7.1.3.1. Create a script.
      - 7.1.3.1.1. The script will have remarks identifying the author, creation date, outside help credit, and script purpose.
      - 7.1.3.1.2. The script will report SELinux events.
      - 7.1.3.1.3. The script will report the date and time of the SELinux events search.
      - 7.1.3.1.4. Provide the script source code.
      - 7.1.3.1.5. Provide documentation of running the script at least four times.
  - 7.1.4. Identify if an AI program was used in this lab section. If used, identify the AI program.
- 7.2. Upload each section answer to the D2L Bright Space Assignment section 7.2 before the due date found in the 2234a.pdf document. Use the **script** command or a **putty log file (printable output only)**. Your answers must appear in your answer in the same order as the lab. The file must be human readable text only and must show your login name and all entered commands. Submit a Windows or UNIX text file with the appropriate Windows extension.
  - 7.2.1. Identify a Linux vulnerability and supporting URL affecting a process.
  - 7.2.2. Create a SELinux security context for the process to defend against the vulnerability.
    - 7.2.2.1. Create a script.
      - 7.2.2.1.1. The script will have remarks identifying the author, creation date, outside help credit, and script purpose.
      - 7.2.2.1.2. The script will report SELinux events.
      - 7.2.2.1.3. The script will report the date and time of the SELinux events search.
      - 7.2.2.1.4. Provide the script source code.
      - 7.2.2.1.5. Provide documentation of running the script at least four times.
  - 7.2.3. Identify if an AI program was used in this lab section. If used, identify the AI program.
- 7.3. each section answer to the D2L Bright Space Assignment section 7.3 before the due date found in the 2234a.pdf document. Use the **script** command or a **putty log file (printable output only)**. Your answers must appear in your answer in the same order as the lab. The file must be human readable text only and must show your login name and all entered commands. Submit a Windows or UNIX text file with the appropriate Windows extension.
  - 7.3.1. Identify a Linux vulnerability and supporting URL affecting files and/or folders.
  - 7.3.2. Create a SELinux security context for the process to defend against the vulnerability.
    - 7.3.2.1. Create a script.
      - 7.3.2.1.1. The script will have remarks identifying the author, creation date, outside help credit, and script purpose.
      - 7.3.2.1.2. The script will report SELinux events.
      - 7.3.2.1.3. The script will report the date and time of the SELinux events search.
      - 7.3.2.1.4. Provide the script source code.
      - 7.3.2.1.5. Provide documentation of running the script at least four times.
  - 7.3.3. Identify if an AI program was used in this lab section. If used, identify the AI program.

- 7.4. Upload each section answer to the D2L Bright Space Assignment section 7.4 before the due date found in the 2234a.pdf document. Use the **script** command or a **putty log file (printable output only)**. Your answers must appear in your answer in the same order as the lab. The file must be human readable text only and must show your login name and all entered commands. Submit a Windows or UNIX text file with the appropriate Windows extension.
  - 7.4.1. Provide the URL and a summary of at least three ethical issues dealing with Linux.
  - 7.4.2. Provide a potential solution to each ethical issue.
  - 7.4.3. Provide the potential impact on your employment for each issue.
  - 7.4.4. Identify if an AI program was used in this lab section. If used, identify the AI program.