Linux 2
CPTR 2234

- 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 03: Linux Storage

3.1. Upload each section answer to the D2L Bright Space Assignment section 3.1 before the due date found in the 2234a.pdf document. Submit a Windows or UNIX text file with the appropriate Windows extension.
- 3.1.1. The script will have remarks identifying the author, creation date, outside help credit, and script purpose.
- 3.1.2. The script will report the current system date to a file.
- 3.1.3. The script will document all processes that begin at startup.
- 3.1.4. The script will document all running processes.
- 3.1.5. Provide the script source code.
- 3.1.6. Provide the script output file showing the output for host01
- 3.1.7. Provide the script output file showing the output for host02
- 3.1.8. Identify if an AI program was used in this lab section. If used, identify the AI program.

3.2. each section answer to the D2L Bright Space Assignment section 3.2 before the due date found in the 2234a.pdf document. Submit a Windows or UNIX text file with the appropriate Windows extension.
- 3.2.1. The script will have remarks identifying the author, creation date, outside help credit, and script purpose.
- 3.2.2. The script will report the current system date and time to a file.
- 3.2.3. The script will list all the startup processes not found in the master startup process list file.
- 3.2.4. The script will list all the running processes not found in the master running process list file.
- 3.2.5. Provide the script source code
- 3.2.6. Provide the script output file showing the output for host01
- 3.2.7. Provide the script output file showing the output for host02
- 3.2.8. Identify if an AI program was used in this lab section. If used, identify the AI program.

3.3. Upload each section answer to the D2L Bright Space Assignment section 3.3 before the due date found in the 2234a.pdf document. Submit a Windows or UNIX text file with the appropriate Windows extension.
- 3.3.1. The script will have remarks identifying the author, creation date, outside help credit, and script purpose. (Host02
- 3.3.2. The script will report the current system date to a file.
- 3.3.3. The script will report the system hostname to a file.
- 3.3.4. The script will verify the existing physical volumes to a file.
- 3.3.5. The script will verify the existing volume groups to a file.
- 3.3.6. The script will verify the existing logical volumes to a file.
- 3.3.7. Provide the script source code.
- 3.3.8. Provide the script output file showing successful completion of the lab section.
- 3.3.9. Identify if an AI program was used in this lab section. If used, identify the AI program.

3.4. Upload your document(s) to the D2L Bright Space Assignment section 3.4 before the due date found in the 2234a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file containing your answers.
- 3.4.1. Document the building of a router with NAT/PAT virtual machine with the following. A pfSense router is recommended.
  - 3.4.1.1. Provide a Visio or similar diagram showing the network design and IPv4 and IPv6 address assignments.
  - 3.4.1.2. Show the virtual machine is current with updates.
  - 3.4.1.3. Show the NAT/PAT settings.
  - 3.4.1.4. Show the firewall settings.
  - 3.4.1.5. Provide the DHCP and DHCPv6 settings on the router.
  - 3.4.1.6. Show the IPv4 and IPv6 address settings on the host.
  - 3.4.1.7. Provide the successful pings of host01 and host02 on the internal network only.
  - 3.4.1.8. Identify if an AI program was used in this lab section. If used, identify the AI program.