

Linux 1
CPTR 2224
Lab 08

- 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.

Lab 08: vi, Compression, Web Server and Compiling

- 8.1. Each part is worth two points for a maximum of twenty-five points. Upload each section answer to the D2L Bright Space Assignment section 8.1 before the due date found in the 2224a.pdf document. Use the **script** command or a **putty log file** to create the file. 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.
 - 8.1.1. Provide evidence of successfully using the vi editor to create a file named **vi_test1.txt** with 5 unique lines of at least 15 characters each line.
 - 8.1.2. Provide evidence of successfully saving the file **vi_test1.txt** using the vi editor.
 - 8.1.3. Provide evidence of successfully exiting the vi editor
 - 8.1.4. Provide the output of **vi_test1.txt** using cat to show a successful edit.
 - 8.1.5. Provide evidence of successfully opening the file **vi_test1.txt** with vi editor.
 - 8.1.6. Provide evidence of successfully changing five characters in the file **vi_test1.txt** using the vi editor.
 - 8.1.7. Provide evidence of successfully saving the modified file **vi_test1.txt** using the vi editor.
 - 8.1.8. Provide evidence of successfully exiting the vi editor.
 - 8.1.9. Provide the output of **vi_test1.txt** using cat to show a successful edit.
 - 8.1.10. Provide evidence of successfully opening the file **vi_test1.txt** with vi editor.
 - 8.1.11. Provide evidence of successfully changing three characters in the file **vi_test1.txt** using the vi editor.
 - 8.1.12. Provide evidence of successfully exiting the vi editor without saving the file.
 - 8.1.13. Provide the output of **vi_test1.txt** using cat to show an unsuccessful edit.
- 8.2. Each part is worth two points for a maximum of twenty-five points. Upload each section answer to the D2L Bright Space Assignment section 8.2 before the due date found in the 2224a.pdf document. Use the **script** command or a **putty log file** to create the file. The text must be readable by the instructor. Submit a Windows or UNIX text file with the appropriate Windows extension.
 - 8.2.1. Create a directory in your home directory named **~/zip** and copy at least five labs into the directory.
 - 8.2.2. Create a directory in your home directory named **~/gzip** and copy all the files in **~/zip** into **~/gzip**.
 - 8.2.3. Create a directory in your home directory named **~/bzip2** and copy all the files in **~/zip** into **~/bzip2**.
 - 8.2.4. Create a directory in your home directory named **~/xz** and copy all the files in **~/zip** into **~/xz**.
 - 8.2.5. Log the command line using the zip algorithm to compress all the files in **~/zip**. Provide the output of the file command showing the compression is zip. This requires the use of the zip program.
 - 8.2.6. Log the command line using the zip algorithm uncompressing all the files in **~/zip**. Provide the output of the file command showing all the files are successfully uncompressed.
 - 8.2.7. Log the command line using the gzip algorithm to compress all the files in **~/gzip**. Provide the output of the file command showing the compression is zip. This requires the use of the gzip program.
 - 8.2.8. Log the command line using the zip algorithm uncompressing all the files in **~/gzip**. Provide the output of the file command showing all the files are successfully uncompressed.
 - 8.2.9. Log the command line using the bzip2 algorithm to compress all the files in **~/bzip2**. Provide the output of the file command showing the compression is bzip2.
 - 8.2.10. Log the command line using the bzip2* algorithm uncompressing all the files in **~/bzip2**. Provide the output of the file command showing all the files are successfully uncompressed.
 - 8.2.11. Log the command line using the xz algorithm to compress all the files in **~/xz**. Provide the output of the file command showing the compression is xz.
 - 8.2.12. Log the command line using the xz algorithm to uncompressing all the files in **~/xz**. Provide the output of the file command showing all the files are successfully uncompressed.
- 8.3. Each part is worth six points for a maximum of twenty-five points. Upload each section answer to the D2L Bright Space Assignment section 8.3 before the due date found in the 2224a.pdf document. The text must be and readable by the instructor. Submit a Portable Document Format (PDF) or word processing file containing your answers.

- 8.3.1. Provide evidence of accessing your personalized, non-offensive web page the loopback address on your class virtual Linux system. Please label your answer.
 - 8.3.2. Provide evidence of accessing your personalized, non-offensive web page from a host other than your class virtual Linux system with the web page. Please label your answer.
 - 8.3.3. Provide your class virtual Linux system web server complete working configuration in a search able format. Please label your answer.
 - 8.3.4. Provide log entries showing the web server is running and answering requests.
- 8.4. Each part is worth eight points for a maximum of twenty-five points. Upload each section answer to the D2L Bright Space Assignment section 8.4 before the due date found in the 2224a.pdf document. Use the **script** command or a **putty log file** to create the file. 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.
- 8.4.1. Provide evidence of successfully compiling a program not installed on your class Linux system or OSSEC. Please label your answer.
 - 8.4.2. Provide evidence the newly compiled program works correctly. Please label your answer.
 - 8.4.3. In a paragraph, explain how you will keep the newly compiled program updated.