System Maintenance
CPTR 1122
Lab 05

- 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.
- Plagiarism will not be tolerated.
- Unless noted, all lab sections must be done as unprivileged login.

## Lab05: Chapter 8: Magnetic Storage

5.1. Upload your document to the D2L Bright Space Assignment section 5.1 before the due date found in the 1122a.pdf document.

5.1.1. Select a working lab or similar computer to create a short video (no more than 10 minutes in length) showing the following. [ 12 points ]

5.1.1.1. Demonstration the computer is functioning.
5.1.1.2. Demonstration of proper ESD protection.
5.1.1.3. Demonstrate proper parts management.
5.1.1.4. Demonstrate removal of a disk drive or DVD drive.
5.1.1.5. Demonstrate the installation of a disk drive or DVD drive.
5.1.1.6. Demonstration the disk drive or DVD drive is functioning properly.

5.1.2. The video must include the face of the single individual getting lab section credit. Multiple faces will result in no credit for any individuals. [ 12 points ]

5.1.3. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used. [ 1 point ]

5.2. Upload your document to the D2L Bright Space Assignment section 5.2 before the due date found in the 1122a.pdf document.

5.2.1. Create a Linux virtual machine with the following information in a PDF file. This may not be the same distribution/version used in any other class. [ 12 points ]

5.2.1.1. The full name of the installation media.
5.2.1.2. The default partitioning information of the distribution using encrypted LVM.
5.2.1.3. Show the encrypted LVM partition has a separate /home directory that is at least 5GB larger than recommended.
5.2.1.4. Show the distribution is current with updates.

5.2.2. Provide a separate word processing document with the following. [ 12 points ]

5.2.2.1. All the virtual machine configurations.
5.2.2.2. All the configuration options selected during installation.
5.2.2.3. How to update the operating system.

5.2.3. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used. [ 1 point ]

5.3. Upload your document to the D2L Bright Space Assignment section 5.3 before the due date found in the 1122a.pdf document.

5.3.1. Select a working Windows or Macintosh computer to complete the following. [ 24 points ]

5.3.1.1. Provide the initial partition table of a USB drive in a text file.
5.3.1.2. Modify the partition settings into three equal size partitions. Show the new partition table in a text file.
5.3.1.3. Format each new partition with the default operating system file format. Show the format type in each partition in a text file.
5.3.1.4. Put at least one file in each partition. Show all the files in each partition in a text file.

5.3.2. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used. [ 1 point ]

5.4. Upload your document to the D2L Bright Space Assignment section 5.4 before the due date found in the 1122a.pdf document.

5.4.1. Document completion of “Lesson 3: Controlling the Speed of the Blink.”

5.4.1.1. Provide a copy of the source code in a text file that includes the following. [ 8 points ]

5.4.1.1.1. The purpose of the code.

5.4.1.1.2. All sources of help with the code.
5.4.1.1.3. Your name and code creation date.
5.4.1.1.4. The complete source code according with the lab instructions.

5.4.1.2. Provide a copy of the source code in a text file that includes the following. [ 8 points ]

5.4.1.2.1. The purpose of the code.
5.4.1.2.2. All sources of help with the code.
5.4.1.2.3. Your name and code creation date.
5.4.1.2.4. The complete source code with a modification you made. Identify the modification.
5.4.1.2.5. Identify if your modification did or did not work. Explain what did happen.

5.4.1.3. Identify in a text file the optimal setting of the potentiometer. [ 8 points ]

5.4.2. Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used. [ 1 point ]