

System Maintenance  
CPTR 1122  
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.
- Plagiarism will not be tolerated.
- Unless noted, all lab sections must be done as unprivileged login.

**Lab08: Chapter 16: Local Area Networking**

- 8.1. Upload your document to the D2L Bright Space Assignment section 8.1 before the due date found in the 1122a.pdf document.
  - 8.1.1. Select a working lab or similar computer to gather the following information. [ 12 points ]
    - 8.1.1.1. The computer manufacturer, model, and serial number in a text file.
    - 8.1.1.2. Provide the NIC driver and version in a text file.
    - 8.1.1.3. Identify the IEEE standard each NIC adheres and the common name of the standard in a text file.
    - 8.1.1.4. Provide URL(s) explaining each IEEE standard listed in a text file.
  - 8.1.2. Use the class Linux virtual machine or approved virtual machine for the following. [ 12 points ]
    - 8.1.2.1. The computer manufacturer, model, and serial number in a text file.
    - 8.1.2.2. Provide the NIC driver and version in a text file.
    - 8.1.2.3. Identify the IEEE standard each NIC adheres and the common name of the standard in a text file.
    - 8.1.2.4. Provide URL(s) explaining each IEEE standard listed in a text file.
  - 8.1.3. 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 ]
- 8.2. Upload your document to the D2L Bright Space Assignment section 8.2 before the due date found in the 1122a.pdf document.
  - 8.2.1. Create a document providing the following information. [ 24 points ]
    - 8.2.1.1. Select two different hosts and provide the IP addresses of both hosts.
    - 8.2.1.2. The successful installation of rlsync or similar peer to peer system on both hosts
    - 8.2.1.3. The successful connection of both hosts using rlsync or similar peer to peer system.
    - 8.2.1.4. The successful transfer of data using the peer to peer system between both hosts.
    - 8.2.1.5. Provide a copy of the file exchange log file.
- 8.3. Upload your document to the D2L Bright Space Assignment section 8.3 before the due date found in the 1122a.pdf document.
  - 8.3.1. Select a working Windows or Macintosh system to complete the following. [ 8 points ]
    - 8.3.1.1. Provide directions on how to update the backup for all the files in all home directories in a PDF file.
    - 8.3.1.2. Provide evidence all the home directory files are backup to independent media in a PDF file.
    - 8.3.1.3. Provide directions on how to restore a single file from the backup to a folder named "restore3" in a PDF file.
    - 8.3.1.4. Provide evidence of restoring a single file from the backup to "restore3" directory.
  - 8.3.2. Select a working Linux system to complete the following. [ 8 points ]
    - 8.3.2.1. Provide directions on how to update the backup for all the files in all home directories in a PDF file.
    - 8.3.2.2. Provide evidence all the home directory files are backup to independent media in a PDF file.
    - 8.3.2.3. Provide directions on how to restore a single file from the backup to a folder named "restore3" in a PDF file.
    - 8.3.2.4. Provide evidence of restoring a single file from the backup to "restore3" directory.
  - 8.3.3. Identify two different ESD precautions you take in a PDF file. [ 8 points ]
  - 8.3.4. 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 ]
- 8.4. Upload your document to the D2L Bright Space Assignment section 8.4 before the due date found in the 1122a.pdf document.
  - 8.4.1. Document completion of "Lesson 6: Sound Sensitive LED."
    - 8.4.1.1. Provide a copy of the source code in a text file that includes the following. [ 8 points ]

- 8.4.1.1.1. The purpose of the code.
- 8.4.1.1.2. All sources of help with the code.
- 8.4.1.1.3. Your name and code creation date.
- 8.4.1.1.4. The complete source code according with the lab instructions.
- 8.4.1.2. Provide a copy of the source code in a text file that includes the following. [ 8 points ]
  - 8.4.1.2.1. The purpose of the code.
  - 8.4.1.2.2. All sources of help with the code.
  - 8.4.1.2.3. Your name and code creation date.
  - 8.4.1.2.4. The complete source code with a modification you made. Identify the modification.
  - 8.4.1.2.5. Identify if your modification did or did not work. Explain what did happen.
- 8.4.1.3. Provide a copy of serial plotter during both source code version in a PDF file. [ 8 points ]
- 8.4.2. 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 ]