

Enterprise Network Technologies  
CPTR 2245  
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 ensure 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.
- Labeling answers is highly recommended.

## 8 Lab 08: Networking

- 8.1 Upload each answer to the D2L Bright Space Assignment section 8.1 before the due date found in the 2245a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing the following. Put your answer in a single document.
- 8.1.1 Provide the name, position, evidence of contact and ethics statement used by this person to guide Information Technology decisions. Either a working professional or a fellow student may fulfill this requirement.
  - 8.1.2 Provide a different name, position, evidence of contact and ethics statement used by this person to guide Information Technology decisions. Either a working professional or a fellow student may fulfill this requirement.
  - 8.1.3 Provide a different name, position, evidence of contact and ethics statement used by this person to guide Information Technology decisions. Either a working professional or a fellow student may fulfill this requirement.
  - 8.1.4 Provide a different name, position, evidence of contact and ethics statement used by this person to guide Information Technology decisions. Either a working professional or a fellow student may fulfill this requirement.
  - 8.1.5 Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used
- 8.2 Upload each answer to the D2L Bright Space Assignment section 8.2 before the due date found in the 2245a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing the following. Put your answer in a single document.
- 8.2.1 Show the modification on the local VM Debian virtual machine to use IPSec with the local VM Red Hat.
  - 8.2.2 Provide your updated Debian documentation reflecting the above changes.
  - 8.2.3 Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used
- 8.3 Upload each answer to the D2L Bright Space Assignment section 8.3 before the due date found in the 2245a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing the following. Put your answer in a single document.
- 8.3.1 Show the modification on the local Red Hat virtual machine to use IPSec with the local VM Debian.
  - 8.3.2 Provide a copy of all IPSec configuration files.
  - 8.3.3 Provide your updated Debian documentation reflecting the above changes.
  - 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
- 8.4 Upload each answer to the D2L Bright Space Assignment section 8.4 before the due date found in the 2245a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing the following.
- 8.4.1 Show the installation of the current version of iperf3 or similar on your local VM Debian Linux. Put your answer in a single document.
  - 8.4.2 Show the installation of the current version of iperf3 or similar on your local VM Red Hat Linux.
  - 8.4.3 Provide the results of a speed test between the local VM Debian and VM Red Hat Linux on the same network segment with IPSec.
  - 8.4.4 Provide the results of a speed test between the local VM Debian and VM Red Hat Linux on the different network segments with IPSec.
  - 8.4.5 Provide the results of a speed test with a large file between the local VM Debian and local VM Red Hat Linux on the same network segment with IPSec.

- 8.4.6 Provide the results of a speed test with a large file between the local VM Debian and local VM Red Hat Linux on the different network segments with IPsec.
- 8.4.7 Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used