Enterprise Network Technologies
CPTR 2245
Lab 06

- 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.

Lab 06: Cloud Security

6.1 Each part is worth five points for a maximum of twenty-five points. Upload each section answer to D2L Bright Space Assignment section 6.1 before the due date found in the 2245a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file containing your answers.

6.1.1 Document the building the following on host01. [24 points]

6.1.1.1 Provide evidence of creating and mounting a new partition for Docker files.
6.1.1.2 Provide evidence of installing Docker and running “hello world”.
6.1.1.3 Provide evidence Docker files are using the Docker partition.
6.1.1.4 Provide a copy of your installation documentation.
6.1.1.5 Provide documentation of how Docker is secured on this host.

6.1.2 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]

6.2 Each part is worth eight points for a maximum of twenty-five points. Upload each section answer to D2L Bright Space Assignment section 6.2 before the due date found in the 2245a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file containing your answers.

6.2.1 Document the building the following on host03. [24 points]

6.2.1.1 Provide evidence of creating and mounting a new partition for Docker files.
6.2.1.2 Provide evidence of installing Docker and running “hello world”.
6.2.1.3 Provide evidence Docker files are using the Docker partition.
6.2.1.4 Provide a copy of your installation documentation.
6.2.1.5 Provide documentation of how Docker is secured on this host.

6.2.2 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]

6.3 Each part is worth five points for a maximum of twenty-five points. Upload each section answer to D2L Bright Space Assignment section 6.3 before the due date found in the 2245a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file containing your answers.

6.3.1 Provide the following results. [24 points]

6.3.1.1 Iperf3 between host01 Docker and host02 Docker.
6.3.1.2 Iperf3 between host01 Docker and host02 Docker using a large file.
6.3.1.3 Iperf3 results between host03 Docker container and host04 Docker.
6.3.1.4 Iperf3 results between host03 Docker container and host04 Docker using a large file.
6.3.1.5 Provide a copy of your installation and operational documentation(s).

6.3.2 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]

6.4 Each part is worth four points for a maximum of twenty-five points. Upload each section answer to D2L Bright Space Assignment section 6.4 before the due date found in the 2245a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file containing your answers.

6.4.1 Provide a definition and at least two unique supporting sources for the following terms. [12 points]

6.4.1.1 Public cloud
6.4.1.2 Private cloud
6.4.1.3 Hybrid cloud

6.4.2 In a paragraph or more, explain how to build a hybrid cloud to another Information Technology professional. [12 points]

6.4.3 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]