Enterprise Network Technologies
CPTR 2245
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.

Lab 05: Cloud Architecture
5.1   Each part is worth six points for a maximum of twenty-five points. Upload each section answer to D2L Bright Space Assignment section 5.1 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.
    5.1.1   Document the building the following on host01. [24 points]
        5.1.1.1   Provide evidence of creating and mounting a new partition for Docker files.
        5.1.1.2   Provide evidence of installing Docker and running "hello world".
        5.1.1.3   Provide evidence Docker files are using the Docker partition.
        5.1.1.4   Provide a copy of your installation documentation.
    5.1.2   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]

5.2   Each part is worth eight points for a maximum of twenty-five points. Upload each section answer to D2L Bright Space Assignment section 5.2 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.
    5.2.1   Provide the following results. [24 points]
        5.2.1.1   Iperf3 between host01 and host02.
        5.2.1.2   Iperf3 between host01 and host02 using a large file.
        5.2.1.3   Iperf3 results between host01 Docker container and host02.
        5.2.1.4   Iperf3 results between host01 Docker container and host02 using a large file.
        5.2.1.5   Provide a copy of your installation and operational documentation(s).
    5.2.2   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]

5.3   Each part is worth eight points for a maximum of twenty-five points. Upload each section answer to D2L Bright Space Assignment section 5.3 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.
    5.3.1   Document the building the following on host03. [24 points]
        5.3.1.1   Provide evidence of creating and mounting a new partition for Docker files.
        5.3.1.2   Provide evidence of installing Docker and running "hello world".
        5.3.1.3   Provide evidence Docker files are using the Docker partition.
        5.3.1.4   Provide a copy of your installation documentation.
    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   This section is one document. Each part is worth six points for a maximum of twenty-five points. Upload your answer document to the D2L Bright Space Assignment section 5.4 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.
    5.4.1   Provide the following results. [24 points]
        5.4.1.1   Iperf3 between host03 and host04.
        5.4.1.2   Iperf3 between host03 and host04 using a large file.
        5.4.1.3   Iperf3 results between host03 Docker container and host04.
        5.4.1.4   Iperf3 results between host03 Docker container and host04 using a large file.
        5.4.1.5   Provide a copy of your installation and operational documentation(s).

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]