Enterprise Network Technologies
CPTR 2245
Lab 01

- 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 01: Fundamentals

1.1 Upload each section answer to the D2L Bright Space Assignment section 1.1 before the due date found in the 1122a.pdf document.

1.1.1 Submit a Portable Document Format (PDF) or text file of your instructor's response to your email from your college email account. It is optional to request a digitally signed response. [8 points]

1.1.2 This section is one document. Submit a Portable Document Format (PDF) or word processing file of your posting to this class "General Class Discussion" group on D2L Bright Space Discussion area. The submission must include your name, posting message and discussion group name. [8 points]

1.1.3 This section is one audio file. Submit an audio file with the correct pronunciation of your name as it appears on the official college records. [8 points]

1.1.3.1 You may include the correct pronunciation of any alternative names you use.

1.1.3.2 The audio file type must be available in the current VLC player.

1.1.3.3 The audio file may not be embedded in another document.

1.1.3.4 The audio file extension *.xspf is a problem.

1.1.4 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].

1.2 Each part is worth six points for a maximum of twenty-five points. Upload your answer documentation to the D2L Bright Space Assignment section 1.2 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.

1.2.1 Provide a screen shot showing your logon name and download files from the M State Azure Dev Tools for Education site. [8 points]

1.2.2 Provide a screen shot showing your login name on the main Google Cloud Console. [8 points]

1.2.3 Provide a screen shot showing your login name and available credits on Qwiklab. [8 points]

1.2.4 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]

1.3 Each part is worth four points for a maximum of twenty-five points. Upload each section answer to the D2L Bright Space Assignment section 1.3 before the due date found in the 2245a.pdf document.

1.3.1 Provide evidence of successfully completing the following Qwiklab Quest, Google Cloud Essentials (4 hours – 5 credits) [24 points]

1.3.1.1 A Tour of Google Cloud Hands-on Labs

1.3.1.2 Creating a Virtual Machine

1.3.1.3 Compute Engine: Qwik Start – Windows

1.3.2 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]

1.4 Each part is worth four points for a maximum of twenty-five points. Upload your answer documentation to the D2L Bright Space Assignment section 1.4 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.

1.4.1 Provide evidence of successfully completing the following Qwiklab Quest, Google Cloud Essentials (4 hours – 5 credits) [12 points]

1.4.1.1 Getting Started with Cloud Shell and gcloud

1.4.1.2 Kubernetes Engine: Qwik Start

1.4.1.3 Set Up Network and HTTP Load Balancers

1.4.2 Provide the URL showing your earned the badge. [12 points]

1.4.2.1 If you were not able to finish the quest, explain the troubleshooting you did to resolve the problem(s) and show the parts you did complete.

1.4.3 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]