

Enterprise Network Technologies  
CPTR 2245  
Lab 04

- 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 04: Types of Cloud Services**

- 4.1 Each part is worth six points for a maximum of twenty-five points. Upload each section answer to D2L Bright Space Assignment section 4.1 before the due date found in the 2245a.pdf document. The text must be readable by the instructor. Submit a Windows or Unix text file with the appropriate Windows extension.
- 4.1.1 Provide evidence of successfully completing the following Qwiklab, Perform Foundational Infrastructure Tasks in Google Cloud (4 hours, 8 credits) [ 24 points ]
- 4.1.1.1 Cloud Storage: Qwik Start - Cloud Console
  - 4.1.1.2 Cloud Storage: Qwik Start - CLI/SDK
  - 4.1.1.3 Cloud IAM: Qwik Start
  - 4.1.1.4 Cloud Monitoring: Qwik Start
  - 4.1.1.5 Cloud Functions: Qwik Start - Console
- 4.1.2 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 ]
- 4.2 Each part is worth six points for a maximum of twenty-five points. Upload each section answer to D2L Bright Space Assignment section 4.2 before the due date found in the 2245a.pdf document.
- 4.2.1 Provide evidence of successfully completing the following Qwiklab, Perform Foundational Infrastructure Tasks in Google Cloud (4 hours, 8 credits) [ 12 points ]
- 4.2.1.1 Cloud Functions: Qwik Start - Command Line
  - 4.2.1.2 Google Cloud Pub/Sub: Qwik Start - Console
  - 4.2.1.3 Google Cloud Pub/Sub: Qwik Start - Command Line
  - 4.2.1.4 Google Cloud Pub/Sub: Qwik Start - Python
  - 4.2.1.5 Perform Foundational Infrastructure Tasks in Google Cloud: Challenge Lab [ 12 points ]
- 4.2.2 Provide the URL showing your earned the badge.
- 4.2.2.1 If you were not able to finish the quest, explain the troubleshooting you did to resolve the problem(s).
- 4.2.3 Identify if an AI type program was used to complete this lab section. If an AI program is used, identify the AI system used. [ 1 point ]
- 4.3 Each part is worth eight points for a maximum of twenty-five points. Upload each section answer to D2L Bright Space Assignment section 4.3 before the due date found in the 2245a.pdf document.
- 4.3.1 Provide evidence of successfully completing the following Qwiklab, Create and Manage Cloud Resources (4 hours 45 minutes, 6 credits) [ 24 points ]
- 4.3.1.1 A Tour of Google Cloud Hands-on Labs
  - 4.3.1.2 Creating a Virtual Machine
  - 4.3.1.3 Compute Engine: Qwik Start - Windows
  - 4.3.1.4 Getting Started with Cloud Shell and gcloud
- 4.3.2 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 ]
- 4.4 Each part is worth six points for a maximum of twenty-five points. Upload your answer document to the D2L Bright Space Assignment section 4.4 before the due date found in the 2245a.pdf document. Submit a Portable Document Format (PDF) or word processing file containing your answers.
- 4.4.1 Provide evidence of successfully completing the following Qwiklab, Create and Manage Cloud Resources (4 hours 45 minutes, 6 credits) [ 12 points ]
- 4.4.1.1 Kubernetes Engine: Qwik Start
  - 4.4.1.2 Set Up Network and HTTP Load Balancers
  - 4.4.1.3 Create and Manage Cloud Resources: Challenge Lab
- 4.4.2 Provide the URL showing your earned the badge. [ 12 points ]

- 4.4.2.1 If you were not able to finish the quest, explain the troubleshooting you did to resolve the problem(s).
- 4.4.3 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 ]