

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.
- All videos must be viewable in the VLC player.

**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 Provide evidence of successfully completing the following Qwiklab Quest, Set Up and Configure a Cloud Environment in Google Cloud (6 hours – 17 credits)
    - 5.1.1.1 Cloud Monitoring: Qwik Start
    - 5.1.1.2 Managing Deployments Using Kubernetes Engine
    - 5.1.1.3 Set Up and Configure a Cloud Environment in Google Cloud: Challenge Lab
  - 5.1.2 Provide the URL showing you earned the badge. If you were not able to finish the quest, explain the troubleshooting you did to resolve the problem(s).
- 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 evidence of successfully completing the following Qwiklabs Quest, Perform Foundational Infrastructure Tasks in Google Cloud (4 hours – 8 credits)
    - 5.2.1.1 Cloud Storage: Qwik Start – Cloud Console
    - 5.2.1.2 Cloud Storage: Qwik Start – CLI/SDK
    - 5.2.1.3 Cloud IAM: Qwik Start
- 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 Provide evidence of successfully completing the following Qwiklabs Quest, Perform Foundational Infrastructure Tasks in Google Cloud (4 hours – 8 credits)
    - 5.3.1.1 Cloud Monitoring: Qwik Start
    - 5.3.1.2 Cloud Functions: Qwik Start – Console
    - 5.3.1.3 Cloud Functions: Qwik Start – Command Line
- 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 evidence of successful setup and running of a VM of your choice on Google Cloud on a United States based location. Provide either the source code to setup or all the specifications of the VM and location.
  - 5.4.2 Provide evidence of successful setup and running of another VM of your choice on Google Cloud on a non-United States based location. Provide either the source code to setup or all the specifications of the VM and location.
  - 5.4.3 Provide a definition and at least two unique supporting sources for the following terms.
    - 5.4.3.1 Public cloud
    - 5.4.3.2 Private cloud
    - 5.4.3.3 Hybrid cloud
  - 5.4.4 In a paragraph or more, explain the flexibility and privacy concerns of each cloud type previously defined.

