

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

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 Quest, Google Cloud Essentials (4 hours – 5 credits)
- 4.1.1.1 A Tour of Google Cloud Hands-on Labs
 - 4.1.1.2 Creating a Virtual Machine
 - 4.1.1.3 Compute Engine: Qwik Start – Windows
- 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 Quest, Google Cloud Essentials (4 hours – 5 credits)
- 4.2.1.1.1 Getting Started with Cloud Shell and gcloud
 - 4.2.1.1.2 Kubernetes Engine: Qwik Start
 - 4.2.1.1.3 Set Up Network and HTTP Load Balancers
- 4.2.1.2 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).
- 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 Quest, Set Up and Configure a Cloud Environment in Google Cloud (6 hours – 17 credits)
- 4.3.1.1 Cloud IAM: Qwik Start
 - 4.3.1.2 Introduction to SQL for BigQuery and Cloud SQL
 - 4.3.1.3 Multiple VPC Networks
- 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 successful setup and running of a VM of your choice on Google Cloud.
 - 4.4.2 Provide either the source code to setup the VM or all specifications of your Google Cloud VM.
 - 4.4.3 Utilizing the Qwiklabs in section 4, list and define two new terms to you. Identify two different sources for your definition.
 - 4.4.4 Utilizing the Qwiklabs in section 4, list at least two new things you learned.