

Enterprise Network Technologies
CPTR 2245
Lab 03

- 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 03: Cloud Computing Platforms

- 3.1 Each part is worth five points for a maximum of twenty-five points. Upload each section answer to D2L Bright Space Assignment section 3.1 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.
 - 3.1.1 Document the results of running at least two iperf3 tests between two containers.
 - 3.1.2 Document the results of running at least two iperf3 tests between your “real” and a container.
 - 3.1.3 Document the results of running at least two iperf3 tests between a VM using NAT and a container machine on another switch port.
 - 3.1.4 Document the results of running at least two iperf3 tests between your VM using bridge and a container on another switch port.
 - 3.1.5 Provide two advantages and two disadvantages between the “real” system, a VM and a container.

- 3.2 Each part is worth five points for a maximum of twenty-five points. Upload each section answer to D2L Bright Space Assignment section 3.2 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.
 - 3.2.1 Provide the complete host01 configuration file to be a NTP server.
 - 3.2.2 Provide the complete host02 configuration file to be a NTP client of your NTP server.
 - 3.2.3 Provide evidence a host02 container receives time updates from host01 NTP server.
 - 3.2.4 Provide NTP log entries from your NTP server.
 - 3.2.5 Provide NTP log entries from your NTP client.

- 3.3 Each part is worth five points for a maximum of twenty-five points. Upload each section answer to D2L Bright Space Assignment section 3.3 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.
 - 3.3.1 Provide an explanation in your own words of application virtualization. Include at least two sources of information.
 - 3.3.2 Provide an explanation in your own words of clustering. Include at least two sources of information.
 - 3.3.3 Provide an option description for high availability NTP server.
 - 3.3.4 Provide a diagram of the high availability NTP server option.
 - 3.3.5 Provide a cost of high availability option and how the option is less expensive than doing nothing.

- 3.4 Each part is worth six points for a maximum of twenty-five points. Upload your answer document to the D2L Bright Space Assignment section 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.
 - 3.4.1 Provide the name, position, evidence of contact and ethics statement used by this person to guide Information Technology decisions. Either a working professional or a fellow student may fulfill this requirement.
 - 3.4.2 Provide a different name, position, evidence of contact and ethics statement used by this person to guide Information Technology decisions. Either a working professional or a fellow student may fulfill this requirement.
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