

Network Operating Systems  
CPTR 2272  
Lab 08

- 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.

**Lab 08: Managing Windows Server 2016 Network Services**

- 8.1 Each part is worth three points for a maximum of twenty-five points. Upload each section answer(s) to the D2L Bright Space Assignment section 8.1 before the due date found in the 2272a.pdf document. Create shell script and response file with the following. The text must be readable by the instructor. Submit a Windows or Unix text file with the appropriate Windows extension.
- 8.1.1 The script/batch beginning identifies the purpose, author, outside help, and creation date
  - 8.1.2 Redirect the output of the appropriate netsh command to report your system's IPv6 addresses only to your answer text file. (netsh interface ipv6 show addresses)
  - 8.1.3 Redirect the output of the appropriate netsh command to report your UDP IPv6 statistics to your answer text file. (netsh interface ipv6 show udpstats)
  - 8.1.4 Redirect the output of the appropriate netsh command to report your TCP IPv6 statistics to your answer text file. (netsh interface ipv6 show tcpstats)
  - 8.1.5 Redirect the output of the appropriate netsh command to report all IPv6 statistics to your answer text file. (netsh interface show ipv6 ipstats)
  - 8.1.6 Redirect the output of the appropriate netsh command to report all the IPv6 neighbor cache entries to your answer text file.
  - 8.1.7 Redirect the output of the appropriate netsh command to report all IPv6 DNS servers to your answer text file.
  - 8.1.8 Add the script source code to your text answer file. Provide a copy of the answer file with all the required elements.
- 8.2 Each subsection is worth five points to a maximum of twenty-five points. All answers must be in pdf file format. Upload each section answer(s) to the D2L Bright Space Assignment section 8.2 before the due date found in the 2272a.pdf document. The text must be readable by the instructor. Submit a Portable Document Format (PDF) or word processing file containing your answers.
- 8.2.1 Provide a list of all the top-level domains available on the Internet that end with a two-letter country code only. Label your answer.
  - 8.2.2 Provide an accurate count of the number of domains that end with a two-letter country code. Label your answer.
  - 8.2.3 Provide a list of all the top-level domains that do not end with a two-letter country code only. Label your answer.
  - 8.2.4 Provide an accurate count of the number of domains that do not end with a two-letter country code. Label your answer.
  - 8.2.5 Provide a list of all the current Internet root servers, the A record IP address, and the AAAA record IP address. Label your answer.
- 8.3 Each subsection is worth eight points for a maximum of twenty-five points. Students may upload the appropriate csv file to the D2L Bright Space Assignments section 8.3 before the due date found in the 2272a.pdf document.
- 8.3.1 Simulator lab 1.3.6 Create a Zone
  - 8.3.2 Simulator lab 1.3.7 Create a Reverse Lookup Zone
  - 8.3.3 Simulator lab 1.3.8 Create an Active Directory-Integrated Zone
- 8.4 Each subsection is worth eight points for a maximum of twenty-five points. Students may upload the appropriate csv file to the D2L Bright Space Assignments section 8.4 before the due date found in the 2272a.pdf document.
- 8.4.1 Simulator lab 1.3.9 Convert a Zone to Active Directory-Integrated
  - 8.4.2 Simulator lab 1.4.6 Create a GlobalNames Zone
  - 8.4.3 Simulator lab 1.4.7 Create a Root Zone