

Managing Directory Services  
CSEC 2204  
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.
- Submit your answers in the appropriate file type.
- Embedding documents within documents does not work with the D2L Bright Space assignments.
- Plagiarism will not be tolerated.

**Lab 03: PowerShell**

- 3.1. Each subsection is worth five points to a maximum of twenty-five points. Upload each section answer to the D2L Bright Space Assignment section 3.1 before the due date found in the 2204a.pdf document. Create a script(s) and output file(s) with the following.
  - 3.1.1. The script will have remarks identifying the author, creation date, outside help credit, and script purpose.
  - 3.1.2. The script will IPv4 ping all class Active Directory servers and report the results to a file.
  - 3.1.3. The script will IPv6 ping all class Active Directory servers and report the results to a file.
  - 3.1.4. The script will use nslookup or similar command to query the class domain and report the results to a file.
  - 3.1.5. Provide your script source code and all generated files.
  - 3.1.6. Identify if an AI program was used in this lab section. If used, identify the AI program.
- 3.2. Each subsection is worth six points to a maximum of twenty-five points. Upload each section answer to the D2L Bright Space Assignment section 3.3 before the due date found in the 2204a.pdf document. Create a script(s) and output file(s) with the following.
  - 3.2.1. Create a text file only the Alpha and Administration sections/groups may read and write.
  - 3.2.2. Create a text file only the Bravo and Administration sections/groups may read and write.
  - 3.2.3. Create a text file only the Charlie and Administration sections/groups may read and write.
  - 3.2.4. Logon as a member of Alpha and redirect the output of "whoami /all" to each file. Provide a report.
  - 3.2.5. Logon as a member of Bravo and redirect the output of "whoami /all" to each file. Provide a report.
  - 3.2.6. Logon as a member of Charlie and redirect the output of "whoami /all" to each file. Provide a report.
  - 3.2.7. Provide a "icacls" or similar command line report of the permission settings. All permission must be set least privilege.
  - 3.2.8. Identify if an AI program was used in this lab section. If used, identify the AI program.
- 3.3. Each part is worth five points for a maximum of twenty-five points. Upload each section answer to the D2L Bright Space Assignment section 3.4 before the due date found in the 2204a.pdf document.
  - 3.3.1. One section is installing a database on a server in the class domain. The database must have at least 10 fields and 25 rows. Within the required matrix, at least 80% will have with meaningful data. The database must be on a class server in the folder apps for your OU. You may have additional folders below apps.
  - 3.3.2. Provide the Bravo section permission settings for all the database files on the server showing the ability to add, delete, change, and view the data in the database.
  - 3.3.3. Provide the Charlie section permission settings for all the database files on the server showing the ability to read the database only.
  - 3.3.4. Provide the Alpha section permissions settings for the database files on the server showing no access to any part of the database.
  - 3.3.5. Upload a video of 10 minutes or less of you logging in as a member of each section. Identify the section you are logged in. While logged in, open the database, change an entry, exit the database, open the database, and show the change. Some permission settings may limit how much a logon may perform.
  - 3.3.6. Identify if an AI program was used in this lab section. If used, identify the AI program.
- 3.4. Each subsection is worth six points to a maximum of twenty-five points. Upload each section answer to the D2L Bright Space Assignment section 3.4 before the due date found in the 2204a.pdf document. Create a script(s) and output file(s) with the following.
  - 3.4.1. Change the text file that only Alpha and Administrators sections/group may read and write adding Bravo section may read only.
  - 3.4.2. Change the text file that only the Bravo and Administration sections/groups may read and write adding Charlie section may read only.
  - 3.4.3. Change the text file that only the Charlie and Administration sections/groups may read and write adding Alpha section may read only.

- 3.4.4. Logon as a member of Alpha and redirect the output of "whoami /all" to each file. Provide a report.
- 3.4.5. Logon as a member of Bravo and redirect the output of "whoami /all" to each file. Provide a report.
- 3.4.6. Logon as a member of Charlie and redirect the output of "whoami /all" to each file. Provide a report.
- 3.4.7. Provide a "icacls" or similar command line report of the permission settings. All permission must be set least privilege.
- 3.4.8. Identify if an AI program was used in this lab section. If used, identify the AI program.