

Network Security
CSIS 441
Lab 05

Name _____

- Please upload your answers to the appropriate D2L folder.
- All the requirements for a section must be satisfactory completed for credit.
- The lab must be completed before the due date and time.
- 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.

Lab05 - Basic Cryptography

- 5.1. This section is two parts. All answers must be in pdf file format. You will upload to the appropriate drop box.
 - 5.1.1. One section is creating a batch file or script with the following elements.
 - 5.1.1.1. Identify the purpose of the batch file or script.
 - 5.1.1.2. Identify the creation date, any modification dates, and primary author.
 - 5.1.1.3. Identify any addition sources of help or information to create the batch file or script.
 - 5.1.1.4. Automatically verify the computer hash value of at least ten files. The computer hash must be a known good algorithm.
 - 5.1.1.5. Provide the current date in the file.
 - 5.1.1.6. Add a copy of the source code to the file.
 - 5.1.2. One section is providing the complete output of running the batch file/script. The output will show the source code and verification of the hash value.
- 5.2. This section is two parts. All answers must be in pdf file format. You will upload to the appropriate drop box.
 - 5.2.1. Provide evidence of successfully encrypting and decrypting at least ten files.
 - 5.2.2. Provide evidence of another account unsuccessfully decrypting the files.
- 5.3. This section is five parts. All answers must be in pdf file format. You will upload to the appropriate drop box.
 - 5.3.1. Provide evidence of an encrypted backup. (The backup must be at least one folder with at least 10 files.)
 - 5.3.2. Provide written directions on how to create the encrypted backup previously demonstrated.
 - 5.3.3. Provide evidence of a successful restore from the previous encrypted backup.
 - 5.3.4. Provide written direction on how to restore from the encrypted backup.
 - 5.3.5. Provide a procedure checklist if the password and encryption key is forever lost.
- 5.4. This section is two parts. All answers must be in pdf file format. You will upload to the appropriate drop box.
 - 5.4.1. Provide evidence of successfully submitting your RFC 4880 compliant public key to the class key server.
The key must expire at the end of the semester.
 - 5.4.2. Provide the path to the file for your public/private key and permission settings.