

Lab (optional) - NCL Fall 2017 Gymnasium

- This is an optional assignment, and is worth 10 points.
- The due date and time is **Thursday, November 2 Midnight** (right before the regular season game).
- Change the file name following the naming convention suggested below. Naming convention is as follows: homework, underscore, last name, first initial, and extension (e.g., Crypto-Assignment-ImG.docx).

- Log in to the following site: <https://ncl.cyberskyline.com>
- Go to Dashboard > NCL Fall 2017 Gymnasium > Select any two challenges except Wireless Access Exploitation.
- You will find a few questions for each challenge. Answer each question and provide necessary screenshots and explanation to justify your answer. Take advantage of the hints provided on the challenge.

Challenge 1: Network Traffic Analysis

1. What is the first username/password combination attempt to log into the server?

User1/cyberskyline

```
52 Request: USER user1
73 Response: 331 Password required for user1
59 Request: PASS cyberskyline
```

2. What software is the FTP server running? (Include name and version)

220-FileZilla Server 0.9.53 beta

3. What is the first successful username/password combination?

User1/metropolis

```
Request: USER user1
Response: 331 Password required for user1
Request: PASS metropolis
Response: 230 Logged on
```

4. What is the first command the user executes after logging on?

```
46 Request: LIST
```

5. What file is deleted from the FTP server?

Bank.cap

```
55 Request: DELE bank.cap
71 Response: 250 File deleted successfully
```

6. What file is uploaded to the server?

Compcodes.zip

```
60 Request: STOR compcodes.zip
112 Response: 150 Opening data channel for file upload to server of "/compcodes.zip"
```

What is the MD5 sum of the uploaded file?

- 3303628E25D43BE4E11CC8878C5C5878
- What file does the anonymous user download?
Compcodes.zip

```
116 Response: 150 Opening data channel for file download from server of "/compcodes.zip"
100 FTP Data: 1460 bytes
100 FTP Data: 1460 bytes
100 FTP Data: 1460 bytes
```

Change 2: Encryption

- What is the plaintext password encoded in 0x636869636b656e?
Chicken, 63=c 68=h 69=I 63=c 6b= k 65=e 6e=n , The password is in hexadecimal.

- What is the plaintext password encoded by c2NyaWJibGU= ?

scribble

c2NyaWJibGU=

- What is the plaintext password encoded by

01110011 01100101 01100101 01101101 01101001 01101110 01100111 01101100 01111001?

| Binary Value | Ascii Text Value |
|--|------------------|
| 01110011 01100101 01100101 01101101 01101001 01101110 01100111 01101100 01111001 | seemingly |

- What is the plaintext encoded by

01011010 01101110 01001010 01110110 01100101 01010111 00111000 00111101?

| Binary Value | Ascii Text Value |
|--|------------------|
| 01011010 01101110 01001010 01110110 01100101 01010111 00111000 00111101 | ZnJveW8= |

ZnJveW8=

froyo