

HACK TECHNOLOGY & COMPUTER FORENSIC

HOMEWORK 2 (IN CLASS)

Due: Friday, 25, May 2018

1. **OWASP Mutillidae II.** Try to solve the following questions in **security level: 1**. I think you may have some creative thoughts for attacking. Please do them. You need to capture your screens for the major attacking steps. You should solve at least two of the following sub-questions.
 - (a) **OWASP 2013/A2-Broken Authentication and Session Management/Authentication Bypass/Via SQL Injection/Login.** For this question, please try to break the authentication to get the **admin** privilege via **SQL Injection** as well as **cookies**.
 - (b) **OWASP 2013/A1-Injection (SQL)/ SQLi-Extract Data/User Info (SQL).** For this question, you should extract some private information from the database by using SQL injection commands.
 - (c) **OWASP 2013/A3-Cross Site Scripting(XSS)/Reflected(First Order)/Set Background Color.** For this question, you should execute the script code on input.
 - (d) **OWASP 2013/A3-Cross Site Scripting(XSS)/Reflected(First Order)/Poll Question.** For this question, you should execute the script code on input.
2. **Metasploit Framework.** You should solve at least one of the following two sub-questions.
 - (a) Break the login password for VNC server on Metasploitable 2. You should try to apply both **Hydra** and **Metasploit** methods to complete the exploit, and try to connect the VNC server.
 - (b) Try to exploit the Apache web server (port 80) on Metasploitable 2. You should open the shell session by **Meterpreter**.