



Security 360°

Introduction to Cybersecurity

Student Assessment #2

Cybersecurity Evaluation & Presentation

Format: Group Presentation

Weight: 50%

Prof: James DesLauriers

Background

A popular career path for cybersecurity specialists today is in the field of consulting. Cybersecurity consultancy firms can be large or small but will always feature select experts in the various specific areas of the complex and vast field of cybersecurity.

Assignment

You are employed at a newly founded cybersecurity consulting firm. You and your small team (**3-4 specialists**) have been hired by an organisation who has just been victim of a cyber-attack.

Your team consists of the following members:

- Cybersecurity Administrator (business & policies expert)
- Vulnerability Analyst/Penetration Tester (red teamer)
- Cybersecurity Analyst (blue teamer)
- Cryptologist (cryptology expert)

You have been on site and have completed your evaluation of the attack as well as the various weaknesses in the organisation that permitted the cyber-attack. You will be responsible for presenting your findings to the organisation's board members. Each member should introduce themselves, citing their specific certifications and expertise, then deliver a report.

At the minimum, the evaluation should consist of:

- **Administrator:** Policies, regulations and culture best practice that were not followed. Your recommendation on how to implement these best practices going forward.
- **Pen Tester:** The results of your penetration tests and how the attackers gained entry. Your recommendation for closing these holes in the network
- **Analyst:** Results from your analysis of the log files to support the red team penetration test findings. Your recommendation for implementing intrusion detection measures in the future
- **Cryptologist:** Weak authentication, integrity or encryption methods which could affect data lost in the cyber-attack. Your recommendations for improving cryptographic techniques in the future

Grading

You will be graded on your knowledge of the concepts learned in class, as well as on how you apply them to the chosen case study.