

**Lab 2: *Breaches* (2%)**

**Overview:**

You also get an opportunity to analyze some data breaches posted on the Internet (the breaches you discuss here cannot be used for your blog post). What you will do is try to break the stories into component parts so you can see what happened, what was lost etc.

At the end of the lab you have the opportunity to play a simple cyber security game. While it is simple, it does introduce some basic IT Security concepts.

**Objective:**

1. Analyze breaches that have been in the press
2. Defend a company with cyber security techniques
3. Complete a lab report

**The Lab Activities**

**Part 1: Breaches**

The purpose of this part of the lab is to analyze some of the privacy breaches that have been in the press. Specifically, ones dealing with software. Doing so will allow you to create a comprehensive picture of these breaches and their implications for the companies and their customers.

1. Search the Internet and identify 2 breaches e.g. Home Depot. Try to find several references for the breach, as this will give you more information about what happened and the outcomes.
2. Identify for the breach the following data:

|  |  |
| --- | --- |
| **Data** | **Description** |
| Company: | Company attacked |
| Method: | Method of breach i.e. how was it done |
| Data Lost (volume) | Amount of data lost |
| Data Lost (types) | Types of data lost e.g. names, addresses, credit card details etc. |
| Company Impact | Known or likely impact on the company e.g. will the company lose $$$, customers? |
| Customer Impact | Known or likely impact on those parties who have had their data lost |
| Remedial Action (data loss) | Steps taken to address the data loss i.e. are they doing anything for their customers? |
| Remedial Action (breach) | Steps taken to stop the breach happening again |

NB: You may not be able to get all the information above about a breach.

1. In your lab report write up your breach covering the topics above. The write-up should be in the format given in the lab assignment template.

**Part 2: Cyber Attack**

In this section of the lab you get to play a cyber security game using the PBS NovaLab Cybersecurity website: ‘http://www.pbs.org/wgbh/nova/labs/lab/cyber/’ . It provides an enjoyable introduction to cyber attacks, cyber defense and cyber budgets.

Through the lab you’ll receive a basic introduction to cyber attacks including password cracking and social engineering. Your goal will be to complete all 3 levels of the Cybersecurity Lab.

1. Navigate to the website: ‘http://www.pbs.org/wgbh/nova/labs/lab/cyber/’
2. Click on ‘PLAY GAME’
3. Sign into that game as a ‘Guest’
4. Successfully complete all three (3) levels of challenges.
5. Take a screen shot of the Level 3 page showing all challenges complete and save it as <<MySenecaUsername>>\_CLG\_L<<X>>.jpg
6. Insert the screenshot into your report under the heading: “Part 2: Cyber Security Game”

**Part 3: Report Submission**

Now that you have filled out the Lab report, you need to submit it. This is done through the submission link given with Lab 2 on Blackboard.

**Lab Assignment Write-up**

Use the Lab template given with Lab 2 as your Lab report template, enter your answers for Parts (above) into the report.

**Deliverable**

Submit your Lab report as a MS Word “.docx” format through the course’s web site with the following name:

* <<MySenecaUsername>>\_L2.docx

For example, if my MySeneca username was “john.doe”, then the file should be “john.doe\_L2.docx”. The angle brackets “<<” and “>>” show where information should be changed/customized and they should not be included in the filename.

Note:

* Submissions deadlines are given through the lab submission link.
* Late submitted late **will not** be accepted by Blackboard.