3.40 Going Mobile LO1

Key your name: Click or tap here to enter text.

Exercise 3



Exercise Network Security

Instructions

Security is an important consideration in both personal and workplace decisions. Whether you are the manager of the company or an employee always on the go using a smartphone containing work data, it is important to have an understanding around security risks, the implications they bring, and how to protect your data. Sometimes you may need to research additional information or terms you come across.

Use the information provided in the presentation, or research online to complete the following three sections. You may find some of the information you gather useful for future reference.

Section 1 Security threats:

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| **Malware** | **What is it?** | **What can you use to isolate/eliminate Malware? Include an example.**  **What do you have to make sure you do?** |
| **Worm** | Click or tap here to enter text. | Click or tap here to enter text.  Click or tap here to enter text. |
| **Spam** | Click or tap here to enter text. |
| **Virus** | Click or tap here to enter text. |
| **Phishing** | Click or tap here to enter text. |
| **Spyware** | Click or tap here to enter text. |
| **Trojan Horse** | Click or tap here to enter text. |
| **Hoax** | Click or tap here to enter text. |

Section 2 Safe Browsing Recommendations

You are to go online and research safe internet and web browsing practices, you are then to list 5 practices that you feel are the most important and provide a description of each practice.

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| **Safe Internet/Web browsing Practice** | | **Description** |
| **1** | Click or tap here to enter text. | Click or tap here to enter text. |
| **2** | Click or tap here to enter text. | Click or tap here to enter text. |
| **3** | Click or tap here to enter text. | Click or tap here to enter text. |
| **4** | Click or tap here to enter text. | Click or tap here to enter text. |
| **5** | Click or tap here to enter text. | Click or tap here to enter text. |

Section 3 Network Encryption

Network encryption requires a key, password or digital certificate. Only those with the right key are able to read or decipher the data.

You are to sort the 3 main encryption protocols into the order of **strongest** form of encryption to **weakest**.

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| **Encryption Protocols** | |
| **1** | Click or tap here to enter text. |
| **2** | Click or tap here to enter text. |
| **3** | Click or tap here to enter text. |

Exercise Mobile Security

The goal of this exercise is to identify the security threats in a range of different scenarios.

Instructions

As we have learned, there are a range of security threats to mobile devices and networks. Your task is to identify what the potential threat(s) are in these scenarios and provide recommendation to what action each person should take to resolve them and to avoid it in the future, as the example below demonstrates.

The Potential threats include:

Organisation Data Vulnerability

Loss of Data

Theft

Potential malicious Application

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| **Scenario** | **Threat and Recommendation** |
| ***Example:***  *Zoe has all her photos stored on her smartphone from the last 5 years. These include special photos such as her nephew’s 1st birthday. In her rush to a doctor appointment she drops her phone on the pavement smashing the phone. She attempts to get the phone working but the device simply won’t start again.* | ***Threat:***  Loss of data  ***Recommendation:***  *Zoe may attempt to retrieve the photos by connecting it to a computer, however there is a high chance the photos are lost.   In the future Zoe should ensure her data is backed up onto a computer or using cloud storage so if her device fails she is able to retrieve her photos* |

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| **Scenario 1** | **Threat and Recommendation** |
| Sarah works for a banking firm which supplied her with a mobile phone to aid her in contacting customers on the go. She accidently leaves the mobile device on a bus on Monday morning as she was running late. The device was picked up by a stranger who found the device had no password setup to prevent access to the phone. | ***Threat:***  Click or tap here to enter text.  ***Recommendation:***  Click or tap here to enter text. |

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| **Scenario 2** | **Threat and Recommendation** |
| Ben has a new mobile device, he spent all his available money on the flash new device but now wants some games to play on it. He sees one he wants in the app store which is advertised as $10.00, as Ben cannot afford this he finds the same game on the internet at an unofficial site that he can download for free.  Ben downloads this free copy of the app and finds his device is now running slower and these strange unknown applications were also installed without his knowledge. | ***Threat:***  Click or tap here to enter text.  ***Recommendation:***  Click or tap here to enter text. |

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| **Scenario 3** | **Threat and Recommendation** | |
| Steven and Lucy are going to the rugby for date night. Lucy had been playing a game on her tablet on the journey as the traffic was bad and it was a long trip to the stadium. The device has no password.  When they arrive Lucy places the tablet on her seat where it is easily seen from the outside. In their excitement neither of them remember to lock the car door as they head into the stadium. | | ***Threat:***  Click or tap here to enter text.  ***Recommendation:***  Click or tap here to enter text. |

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| **Scenario 4** | **Threat and Recommendation** | |
| Mark has had a stressful Monday morning at his real estate company, where he has received a number of angry calls from customers claiming that someone had been sending them inappropriate text messages from the organisation’s mobile number.  Little does he realise that the device was picked up by the disgruntled cleaner who left the firm last week and had stolen the phone to cause problems for the organisation. The device was always kept on Mark’s desk and had all clients personal numbers stored on it. | | ***Threat:***  Click or tap here to enter text.  ***Recommendation:***  Click or tap here to enter text. |

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| **Scenario 5** | **Threat and Recommendation** | |
| Lucy is on Holiday in Fiji and is using public Wi-Fi at the restaurant she is having her lunch at. As she is browsing social media and posting her holiday pictures, a pop up appears recommending her to go onto another website and download an application which claims to show all the best tourist locations in Fiji.  She goes onto the official app store to search for this app but finds no sign of it. She goes back to her web browser and the pop up appears again requesting her to install the application. | | ***Threat:***  Click or tap here to enter text.  ***Recommendation:***  Click or tap here to enter text. |