Week 05 Lab: Hands-on Updates and Device Security

Find your instructions in the file: “W05 Hands-on Device Updates Instructions.”

Fill out this worksheet as you complete the lab, then save it, and upload it to I-Learn as instructed. You may earn up to 60 points for this lab.

Task 1: Check and update devices’ operating systems

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| What is your laptop or desktop computer’s operating system (OS) and version? Also, if you have a mobile device such as a smartphone or tablet, what is its OS and version? (2 pts.) | Windows 10 Pro Version 20H2 |
| Did you find any available OS updates? If so, what are the software version names or numbers for the updated software? (1 pt.) | The only update there is is an update to Windows 10 version 21H1 |
| What are the procedures for applying OS updates to your computer and other devices? (2 pts.) | After I check for updates in systems settings they have to download and then I need to restart my computer for them to apply. |

(Details)

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| If the OS on your computer or device was out of date, did you successfully update or upgrade? How long did it take? Explain. (2 pts.) | I did update it. The entire process took about 45 minutes. |

(Details)

Task 2: Check for updates of your web browsers, apps, and other software packages

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| What web browsers are installed on your computer? (1 pt.) | Google Chrome and Microsoft Edge |
| What browser extensions, add-ons, plug-ins, or extra features have been installed in your web browsers? Were these extra browser features installed by someone else, or did you install them yourself? (3 pts.) | I don’t have any browser extensions except for proctorio installed in google Chrome. I installed it myself. |
| Check your web browsers, extensions, etc. for updates. Are they up to date, or are there newer versions available? If you find updates available, do they fix any security vulnerabilities? (3 pts.) | I went into developer mode to check for updates on my extensions and there were no updates available. |

(Details)

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| Did you successfully update your web browsers? Explain. (2 pts.) | I checked for updates and there were none |
| Did you successfully update the extensions, add-ons, plug-ins, etc. in your web browsers? Explain. (2 pts.) | There were no available updates for my extensions either because I have auto update turned on. |

(Details)

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| What additional software applications, apps, etc. are installed on your computer? (List at least three.) Did someone else install them on your computer, or did you install them yourself? (3 pts.) | I have Microsoft word, Android studio, and a development environment called eclipse on my computer. I installed them all. |

(Details)

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| Look for updated versions of the extra installed software you listed above. Are there any bug fixes, security patches, or new features provided by available updates? (3 pts.) | There were updates for android studio that fixed bugs. |

(Details)

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| What are the procedures for updating the extra installed software you listed above? Did you successfully update your apps or extra software? Explain. (3 pts.) | To update android studio there is a popup that appears in the bottom left corner of the screen then it downloads and then the app restarts. |

(Details)

Task 3: Check your computer’s anti-malware and other security software and features.

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| What antivirus or threat protection software is installed? (If none was installed, what threat protection package did you select and install?) (4 pts.) | I have windows defender installed on my computer |
| What are the procedures for keeping your antivirus or threat protection software up-to-date? Did you successfully update it? Explain. (4 pts.) | Every week I check my antivirus software for updated. Usually it automatically updates, but once in awhile I do need to manually update it. |

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| What other security software or features (such as host-based firewall, content filtering software, device health monitoring, etc.) are available on your computer? (4 pts.) |  |
| Did you find and successfully correct any problems with your computer’s security settings or features? Explain. (2 pts.) | I checked the firewall settings on my computer and noticed an app that had free access that I didn’t want to have unlimited access, so I changed the settings so the app had limited access to data and the internet. |

(Details)

Task 4: Examine the security of your devices’ network connections.

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| Does your computer or mobile device have a wired network connection method? If so, what type of technology and network cable does it use?  Does your computer have wireless network connection methods? If so, what type of technology does it use? (2 pts.) | My computer uses wireless connectivity for the internet. It uses Wi-Fi 4 (802.11n) and the security type is WPA2-Personal |
| If your computer has Ethernet or similar wired technology: how many places are there at your home, work, church, etc. where you are permitted to plug in your computer and use the internet?  If your computer has Wi-Fi wireless technology: how many places are there at your home, work, church, etc. where you are permitted to connect to a wireless access point? What SSIDs do you connect to, and what are the encryption settings for each of those SSIDs? (4 pts.) | Home I have access to optix which has WPA2 encryption. At work I don’t use the wifi I just use cellular data. At church I connect to a network called Liahona and it has WPA2 encryption as well. |

Task 5: Investigate other threat protection options.

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| Choose and answer any of the following:  What physical security features have you enabled on your computer and devices?  What other update options and threat protection options have you installed and enabled on your mobile devices?  What financial plans have you made in your personal or family budget, to provide money for future repairs, replacement, and updates to your computer and devices? (5 pts.) | In our family budget we set aside $700 a year for potential computer repairs/ replacements. This way if we don’t need it for a few years we have enough money to buy a new computer if we need it, and we have adequate funds to repair our computers if something goes wrong. |

(Details)

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| Share any inspiration or enlightenment that came to your mind while you worked through this lab exercise. (8 pts.) | I realized while working on this assignment how far digital security has come. I also realize that there are so many option for security for my computer because of all the threats that have come about especially in recent years when it comes to computer security. I also think there’s always more to improve on and be watchful of |

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