Activity Guide 1 : Part 3

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**Ransomware**

1. What types of software does the person in "Anatomy of Attack: Cybersecurity Update" use to perform their attack? Research the names and techniques shown and explain what they are.
2. What is the primary vulnerability in the company that the hacker relies on to succeed? Give an example of a real-world company that experienced this type of attack.
3. What extent of damage was done to the victim? Give an example of a real-world company that experienced similar damages due to this type of attack.
4. What type of cybersecurity expert would likely be properly trained to prevent this type of attack, and what type of interventions would they employ?

**SQL Injection**

1. What types of application programs are vulnerable to a SQL injection attack?
2. What type of damage could be done to the victim with this attack? Give an example of a real-world company that experienced this type of attack.
3. What type of cybersecurity expert would likely be properly trained to prevent this type of attack, and what type of interventions would they employ?

**Credit Card Skimmers**

1. What types of systems are vulnerable to this attack?
2. What type of damage could be done to the victim with this attack? Give an example of a real-world company that experienced this type of attack.
3. What type of cybersecurity expert would likely be properly trained to prevent this type of attack, and what type of interventions would they employ?

**Man in the Middle**

1. What types of systems are vulnerable to a MITM attack?
2. What type of damage could be done to the victim with this attack? Give an example of a real-world company that experienced this type of attack.
3. What type of cybersecurity expert would likely be properly trained to prevent this type of attack, and what type of interventions would they employ?

**Ethical Dilemmas**

1. In addition, write a 250-word description on what keeps white hat hackers on the right side. A white hat hacker is one who uses computer security skills in service of "good." From a Christian worldview, discuss how people should apply their skills for the common good. Also provide examples by researching the ethical dilemmas behind creating and using white hat hackers. Provide support for your answers by including actual cybersecurity events that have taken place in which white-hat hackers were used to mitigate the criminal attempts of cyber criminals who may have been trying to steal, manipulate, or destroy pertinent information.