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**HW8**

**Date today: November 10, 2024**

**CTEC402**

**Chapter 8**

**Part1: Grade (5 points): Thinking Critically**

These questions are designed to prepare you for the critical thinking required for the A+ exams and may use content from other chapters and the web.

1. Why is PINE963$&apple not a strong password?

Answer: While it includes a mix of characters, the password has predictable patterns, such as common words ("apple"), which makes it easier for hackers to guess using dictionary attacks.

1. What type of employee badge does not have to be swiped by a card reader in order to allow the employee through a door?
   1. RFID badge
   2. Smart card badge
   3. A badge containing a digital certificate
   4. Key fob

Answer: A.

1. What tool is best to use when destroying data on an SSD?
   1. Zero-fill utility
   2. Low-level format
   3. Degausser
   4. ATA Secure Erase

Answer: D.

1. What device can be installed on a laptop to prevent shoulder surfing?

Answer: A.

1. Define and explain the differences between a virus, worm, and Trojan.

Answer: Virus: Malicious code that attaches to files and spreads through user action.

Worm: A standalone program that spreads on its own across networks.

Trojan: Disguises itself as legitimate software to trick users into installing it, often creating backdoors.

1. What is the best way to determine if an email message warning about a virus is a hoax?
   1. Check websites that track virus hoaxes.
   2. Scan the message for misspelled words or grammar errors.
   3. Open the message and see what happens.
   4. Scan your email inbox for malware.

Answer: A.

1. What is the first thing you should do when you discover a computer is infected with malware? The second thing?
   1. Turn off system protection.
   2. Update installed anti-malware software.
   3. Format the hard drive.
   4. Quarantine the computer.

Answers: D.

1. What does anti-malware software look for to determine that a program or a process is a virus?

Answer: It scans for known malware signatures, behaviors, or patterns that indicate malicious activity.

1. What registry key keeps information about services that run when a computer is booted into Safe Mode?

Answer: HKLM\SYSTEM\CurrentControlSet\Control\SafeBoot

1. What folder is used by Windows to hold restore points? Answer: System Volume Information
2. What must you do to allow anti-malware software to scan and delete malware it might find in the data storage area where restore points are kept?

Answer: Disable System Protection temporarily, scan, and then re-enable it.

1. A virus has attacked your hard drive. Instead of seeing the Windows Start screen when you start up Windows, the system freezes and you see a blue screen of death. You have important document files on the drive that are not backed up and you cannot afford to lose. What do you do first? Explain why this is your first choice.
   1. Try a data-recovery service even though it is expensive.
   2. Remove the hard drive from the computer case and install it in another computer.
   3. Try GetDataBack by Runtime Software (*runtime.org*) to recover the data.
   4. Use Windows utilities to attempt to fix the Windows boot problem.
   5. Run antivirus software to remove the virus.

Answer: B.

1. You sign in to your personal computer with your Microsoft account and then you want to set up your computer as a trusted device to make changes to the account settings. Microsoft sends a code to your cell phone in a text message. You enter the code on a Windows screen. This type of authentication is called:
   1. Multifactor authentication
   2. Mutual authentication
   3. Biometric authentication
   4. None of the above

Answer: A.

1. At a restaurant, you overhear people discussing an interesting case they treated while working in a dental office that day. Which type of regulated data policies are most likely to have been violated?
   1. PII
   2. PHI
   3. PCI
   4. GDPR

Answer: B.

1. As a bank employee, you often work from home and remotely access a file server on the bank’s network to correct errors in financial data. Which of the following services is most likely the one you are using to authenticate to the network and track what you do on the network?
   1. RADIUS
   2. Secure DNS
   3. Active Directory
   4. TACACS+

Answer: A.

1. Among the following, which is the best protection against ransomware?

Answer: B.

1. Windows File History
2. Carbonite
3. Keylogger software
4. Authy by Twilio
5. Your boss asks you to work through the weekend to install new software on the applications server that serves up applications to 20 users. The following Monday, all users report they cannot open their data files. After speaking with technical support for the new application, you discover it is not compatible with the old data files. Which type of documentation should you refer to first to address this problem?
   1. Risk analysis documents
   2. Back-out plan documents
   3. Change management documents
   4. Scope of change documents

Answer: B.

**Part2: Grade (10 points): All hands on project must show all steps by including screen shot from your own system**

Hands-On Projects 8-1 – to 8-4

**Part3: Grade (5 points) : Remember you must show all steps**

Real Problems: 8-1 – to - 8-2

**REQUIREMENTS**

- Any assignment received after the time of the class is considered late **(NO EXCUSES)** and is graded with 0