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QUESTION 551 Which of the following can be used to maintain a higher level of security in a SAN by allowing isolation of mis-configurations or faults? A. VLAN B. Protocol security C. Port security D. VSAN
Answer: D
Explanation: A storage area network (SAN) is a secondary network that offers storage isolation by consolidating storage devices such as hard drives, drive arrays, optical jukeboxes, and tape libraries. Virtualization can be used to further enhance the security of a SAN by using switches to create a VSAN. These switches act as routers controlling and filtering traffic into and out of the VSAN while allowing unrestricted traffic within the VSAN.

QUESTION 552 A company needs to receive data that contains personally identifiable information. The company requires both the transmission and data at rest to be encrypted. Which of the following achieves this goal? (Select TWO). A. SSH B. TFTP C. NTLM D. TKIP E. SMTP F. PGP/GPG
Answer: AF
Explanation: We can use SSH to encrypt the transmission and PGP/GPG to encrypt the data at rest (on disk). A: Secure Shell (SSH) is a cryptographic protocol that can be used to secure network communication. It establishes a secure tunnel over an insecure network. F: Pretty Good Privacy (PGP) is a data encryption and decryption solution that can be used for signing, encrypting, and decrypting texts, e-mails, files, directories, and whole disk partitions and to increase the security of e-mail communications.

QUESTION 553 Which of the following does full disk encryption prevent? A. Client side attacks B. Clear text access C. Database theft D. Network-based attacks
Answer: B
Explanation: Full-disk encryption encrypts the data on the device. This feature ensures that the data on the device cannot be accessed in a useable form should the device be stolen.

QUESTION 554 Full disk encryption is MOST effective against which of the following threats? A. Denial of service by data destruction B. Eavesdropping emanations C. Malicious code D. Theft of hardware
Answer: D
Explanation: Full-disk encryption encrypts the data on the device. This feature ensures that the data on the device cannot be accessed in a useable form should the device be stolen. However, it does not prevent the theft of hardware it only protects data should the device be stolen.

QUESTION 555 Which of the following is the BEST method for ensuring all files and folders are encrypted on all corporate laptops where the file structures are unknown? A. Folder encryption B. File encryption C. Whole disk encryption D. Steganography
Answer: C
Explanation: Full-disk encryption encrypts the data on the hard drive of the device or on a removable drive. This feature ensures that the data on the device or removable drive cannot be accessed in a useable form should it be stolen. Furthermore, full-disk encryption is not dependant on knowledge of the file structure.

QUESTION 556 To protect corporate data on removable media, a security policy should mandate that all removable devices use which of the following? A. Full disk encryption B. Application isolation C. Digital rights management D. Data execution prevention
Answer: A
Explanation: Full-disk encryption encrypts the data on the hard drive of the device or on a removable drive. This feature ensures that the data on the device or removable drive cannot be accessed in a useable form should it be stolen.

QUESTION 557 A merchant acquirer has the need to store credit card numbers in a transactional database in a high performance environment. Which of the following BEST protects the credit card data? A. Database field encryption B. File-level encryption C. Data loss prevention system D. Full disk encryption
Answer: A
Explanation: Database encryption makes use of cryptography functions that are built into the database software to encrypt the data stored in the data base. This often offers granular encryption options which allows for the encryptions of the entire database, specific database tables, or specific database fields, such as a credit card number field.

QUESTION 558 Which of the following types of data encryption would Matt, a security administrator, use to encrypt a specific table? A. Full disk B. Individual files C. Database D. Removable media
Answer: C
Explanation: A table is stored in a database. Database encryption makes use of cryptography functions that are built into the database software to encrypt the data stored in the database. This often offers granular encryption options which allows for the encryptions of the entire database, specific database tables, or specific database fields, such as a credit card number field.

QUESTION 559 A database administrator would like to start encrypting database exports stored on the SAN, but the storage administrator warns that this may drastically increase the amount of disk space used by the exports. Which of the following explains the reason for the increase in disk space usage? A. Deduplication is not compatible with encryption B. The exports are being stored on smaller SAS drives C. Encrypted files are much larger than unencrypted files D. The SAN already uses encryption at rest
Answer: C
Explanation: Encryption adds overhead to the data which results in an increase in file size. This overhead is attached to each file and could include the encryption/decryption key, data recovery files and data decryption field in file header. As a result, requires increased storage space.

QUESTION 560 Which of the following is an advantage of implementing individual file encryption

on a hard drive which already deploys full disk encryption? A. Reduces processing overhead required to access the encrypted files B. Double encryption causes the individually encrypted files to partially lose their properties C. Individually encrypted files will remain encrypted when copied to external media D. File level access control only apply to individually encrypted files in a fully encrypted drive Answer: C Explanation: With full disk encryption a file is encrypted as long as it remains on the disk. This is because the data on the disk is decrypted when the user logs on, thus the data is in a decrypted form when it is copied to another disk. Individually encrypted files on the other hand remain encrypted. QUESTION 561 A team of firewall administrators have access to a 'master password list' containing service account passwords. Which of the following BEST protects the master password list? A. File encryption B. Password hashing C. USB encryption D. Full disk encryption Answer: A Explanation: File encryption can be used to protect the contents of individual files. It uses randomly generated symmetric encryption keys for the file and stores the key in an encrypted form using the user's public key on the encrypted file. QUESTION 562 A security administrator has concerns regarding employees saving data on company provided mobile devices. Which of the following would BEST address the administrator's concerns? A. Install a mobile application that tracks read and write functions on the device. B. Create a company policy prohibiting the use of mobile devices for personal use. C. Enable GPS functionality to track the location of the mobile devices. D. Configure the devices so that removable media use is disabled. Answer: D Explanation: Mobile devices can be plugged into computers where they appear as an additional disk in the same way as a USB drive. This is known as removable media. This would enable users to copy company data onto the mobile devices. By disabling removable media use, the users will not be able to copy data onto the mobile devices. QUESTION 563 Which of the following can be used to mitigate risk if a mobile device is lost? A. Cable lock B. Transport encryption C. Voice encryption D. Strong passwords Answer: D Explanation: Passwords are the most likely mechanism that can be used to mitigate risk when a mobile device is lost. A strong password would be more difficult to crack. QUESTION 564 Which of the following types of encryption will help in protecting files on a PED? A. Mobile device encryption B. Transport layer encryption C. Encrypted hidden container D. Database encryption Answer: A Explanation: Device encryption encrypts the data on a Personal Electronic Device (PED). This feature ensures that the data on the device cannot be accessed in a useable form should the device be stolen. QUESTION 565 Which of the following is a way to implement a technical control to mitigate data loss in case of a mobile device theft? A. Disk encryption B. Encryption policy C. Solid state drive D. Mobile device policy Answer: A Explanation: Disk and device encryption encrypts the data on the device. This feature ensures that the data on the device cannot be accessed in a useable form should the device be stolen. QUESTION 566 An SSL/TLS private key is installed on a corporate web proxy in order to inspect HTTPS requests. Which of the following describes how this private key should be stored so that it is protected from theft? A. Implement full disk encryption B. Store on encrypted removable media C. Utilize a hardware security module D. Store on web proxy file system Answer: C Explanation: Hardware Security Module (HSM) hardware-based encryption solution that is usually used in conjunction with PKI to enhance security with certification authorities (CAs). It is available as an expansion card and can cryptographic keys, passwords, or certificates. QUESTION 567 Which of the following has a storage root key? A. HSMB. EFSC. TPMD. TKIP Answer: C Explanation: Trusted Platform Module (TPM) is a hardware-based encryption solution that is embedded in the system's motherboard and is enabled or disabled in BIOS. It helps with hash key generation and stores cryptographic keys, passwords, or certificates on non-volatile (NV) memory. Data stored on NV memory is retained unaltered when the device has no power. The storage root key is embedded in the TPM to protect TPM keys created by applications, so that these keys cannot be used without the TPM. QUESTION 568 Which of the following would be used when a higher level of security is desired for encryption key storage? A. TACACS+ B. L2TPC. LDAPD. TPM Answer: D Explanation: Trusted Platform Module (TPM) is a hardware-based encryption solution that is embedded in the system's motherboard and is enabled or disabled in BIOS. It helps with hash key generation and stores cryptographic keys, passwords, or certificates. QUESTION 569 Which of the following is a hardware based encryption device? A. EFSB. TrueCrypt C. TPMD. SLE Answer: C Explanation: Trusted Platform Module (TPM) is a hardware-based encryption solution that is embedded in the system's motherboard and is enabled or disabled in BIOS. It helps with hash key generation and stores cryptographic keys, passwords, or certificates. QUESTION 570 A company wants to ensure that all aspects of data are protected when sending to other sites within the enterprise. Which of the following would ensure some type of encryption is performed while data is in transit? A. SSHB. SHA1C. TPMD. MD5 Answer: A QUESTION 571 Which of the following should be enabled in a laptop's BIOS prior to full disk encryption? A. USBB. HSMC. RAIDD. TPM Answer: D Explanation: Trusted Platform Module (TPM) is a hardware-based encryption solution that is embedded in the system's motherboard and is enabled or disabled in BIOS. It helps with hash key generation and stores cryptographic keys, passwords, or certificates. QUESTION 572 Which of the following is a hardware-based security technology included in a computer? A. Symmetric key B. Asymmetric key C. Whole disk encryption D. Trusted platform module Answer: D Explanation: Trusted Platform Module (TPM) is a hardware-based encryption solution that is

embedded in the system's motherboard and is enabled or disabled in BIOS. It helps with hash key generation and stores cryptographic keys, passwords, or certificates. QUESTION 573 Which of the following provides dedicated hardware-based cryptographic functions to an operating system and its applications running on laptops and desktops? A. TPM B. HSM C. CPU D. FPU Answer: A Explanation: Trusted Platform Module (TPM) is a hardware-based encryption solution that is embedded in the system's motherboard and is enabled or disabled in BIOS. It helps with hash key generation and stores cryptographic keys, passwords, or certificates. QUESTION 574 Which of the following is built into the hardware of most laptops but is not setup for centralized management by default? A. Whole disk encryption B. TPM encryption C. USB encryption D. Individual file encryption Answer: B Explanation: Trusted Platform Module (TPM) is a hardware-based encryption solution that is embedded in the system's motherboard and is enabled or disabled in BIOS. It helps with hash key generation and stores cryptographic keys, passwords, or certificates. QUESTION 575 A hospital IT department wanted to secure its doctor's tablets. The IT department wants operating system level security and the ability to secure the data from alteration. Which of the following methods would MOST likely work? A. Cloud storage B. Removal Media C. TPM D. Wiping Answer: C Explanation: Trusted Platform Module (TPM) is a hardware-based encryption solution that is embedded in the system's motherboard and is enabled or disabled in BIOS. It helps with hash key generation and stores cryptographic keys, passwords, or certificates. More free Lead2pass SY0-401 exam new questions on Google Drive: <https://drive.google.com/open?id=0B3Syig5i8gpDLXZsWm9MWmh0a0E> These CompTIA SY0-401 exam questions are all a small selection of questions. If you want to practice more questions for actual SY0-401 exam, use the links at the end of this document. Also you can find links for SY0-401 VCE software that is great for preparation and self-assessment for CompTIA SY0-401 exam. 2017 CompTIA SY0-401 (All 1868 Q&As) exam dumps (PDF&VCE) from Lead2pass: <https://www.lead2pass.com/sy0-401.html> [100% Exam Pass Guaranteed]