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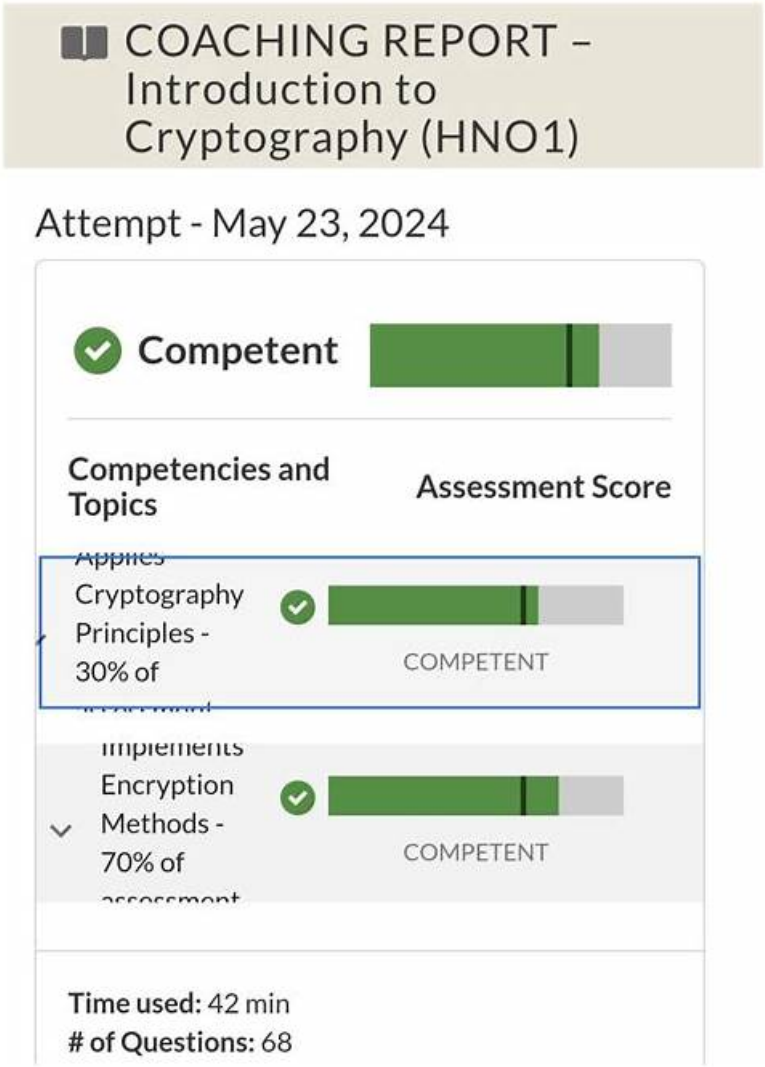

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WGU Introduction to Cryptography HNO1 Sample Questions (Q55-Q60):

NEW QUESTION # 55
(Which attack maps hashed values to their original input data?)

- A. Brute-force
- B. Dictionary
- C. Birthday
- D. Rainbow table

Answer: D

Explanation:
A rainbow table attack uses large, precomputed tables that link hash outputs back to likely original inputs (typically passwords). Instead of storing every password#hash pair directly (which would be huge), rainbow tables store chains created by alternating hash operations with reduction functions, allowing attackers to reconstruct candidate plaintexts that produce a given hash. This makes cracking fast,ifthe target hashes are unsalted and use a known, fast hash function. Salt defeats rainbow tables because the attacker would need separate tables for each salt value, which becomes infeasible when salts are unique and sufficiently large. A dictionary attack is related but typically computes hashes on the fly from a wordlist rather than using precomputed chain structures. A birthday attack targets collisions, not mapping to original data. Brute-force tries all candidates without precomputation.
Because the question explicitly describes mapping hashed values back to original data via a precomputed approach, the correct choice is Rainbow table.

NEW QUESTION # 56
(A security engineer is implementing device authentication as a form of two-factor authentication in a Public Key Infrastructure (PKI) environment. What should be used as a second form of authentication?)

- A. Digital certificate
- B. Symmetric encryption
- C. Asymmetric encryption
- D. Digital signature

Answer: A

Explanation:
In a PKI environment, a digital certificate is the standard credential used to bind an identity (user, device, service) to a public key, with that binding vouched for by a Certificate Authority. For device authentication, the device typically proves possession of the private key corresponding to the certificate' s public key (for example, during a TLS handshake). As a second factor in a two-factor model, a certificate (often stored in a TPM, smart card, or secure enclave) represents "something you have"-a cryptographic credential anchored to hardware or a managed endpoint. The other listed options (symmetric encryption, asymmetric encryption, digital signature) are cryptographic operations or algorithm classes, not stand-alone authentication factors. A digital signature is a mechanism used within authentication flows, but it is not itself the credential that establishes an enrolled device identity within PKI. In practice, a certificate-based device factor is commonly paired with a knowledge factor (password/PIN) or a biometric factor to achieve true 2FA, but among these choices, the appropriate second form of authentication in PKI terms is the digital certificate.

NEW QUESTION # 57
(Which cryptographic operation uses a single key?)

- A. Symmetric

- B. Asymmetric
- C. Hashing
- D. Padding

Answer: A

Explanation:
Symmetric cryptography uses a single shared secret key for both encryption and decryption. This contrasts with asymmetric cryptography, which uses a key pair (public/private). Symmetric algorithms (like AES, ChaCha20) are efficient and well-suited for bulk data encryption, but they require a secure method for key distribution because both parties must possess the same secret. Hashing is not a keyed operation by default (though HMAC is keyed); it maps arbitrary data to a fixed-size digest and is primarily used for integrity checking, fingerprints, and password hashing constructions. Padding is a data formatting technique (e.g., PKCS#7) used to align plaintext to a block size; it is not a cryptographic "operation" that uses a key. Therefore, the cryptographic operation characterized by using one key shared between parties is symmetric encryption. In real systems, symmetric encryption is frequently combined with asymmetric methods for key exchange and with MACs/AEAD for integrity, producing the standard hybrid approach used in protocols like TLS and IPsec.

NEW QUESTION # 58
(How often are transactions added to a blockchain?)

- A. Approximately every 30 minutes
- B. Approximately every 1 hour
- C. Approximately every 24 hours
- D. Approximately every 10 minutes

Answer: D

Explanation:
For Bitcoin, transactions are confirmed by inclusion in blocks, and the network targets an average block interval of about 10 minutes. That means transactions are "added" to the Bitcoin blockchain approximately every 10 minutes in the sense that a new block containing a batch of transactions is appended at that cadence. The 10-minute target is achieved by a difficulty adjustment mechanism that recalibrates mining difficulty roughly every 2016 blocks, aiming to keep the average interval stable despite changes in total network hash power. It is important to note that this is an average: blocks can be found faster or slower in the short term due to the probabilistic nature of proof-of-work mining.
Other blockchains have different block times (seconds to minutes), but the question's options and typical curriculum context align with Bitcoin's 10-minute design. Therefore, the correct choice is approximately every 10 minutes.

NEW QUESTION # 59
(Why should an asymmetric private key be used to encrypt the digest of an application?)

- A. An asymmetric private key encrypts a small amount of information, which is decrypted with the corresponding private key.
- B. An asymmetric private key signs files by signing (encrypting) the hash of a file so integrity and authenticity can be verified with the corresponding public key.
- C. An asymmetric private key uses the same key to encrypt and decrypt large amounts of media, one bit at a time.
- D. An asymmetric private key encrypts and decrypts data in blocks of characters at a time with a complex algorithm.

Answer: B

Explanation:
Digital signing of software typically works by hashing the application (or its manifest) and then using the publisher's private key to create a digital signature over that digest. The private key is used because it is secret and uniquely controlled by the publisher; only the publisher should be able to produce a valid signature. Verifiers (customers) use the publisher's public key to validate the signature and confirm that the digest matches the software they received. This yields two key properties: integrity (the software hasn't been altered; any modification changes the digest and breaks verification) and authenticity (the signature proves it came from the private-key holder). Option A incorrectly describes symmetric stream encryption. Option C incorrectly generalizes private-key behavior as "block encryption." Option D is wrong because verification uses the public key, not a private key; also,
"encrypting with private key" in this context is better understood as signing, not confidentiality encryption. Therefore, the correct rationale is that the asymmetric private key is used to sign the file's digest so the corresponding public key can verify integrity and authenticity.

NEW QUESTION # 60
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