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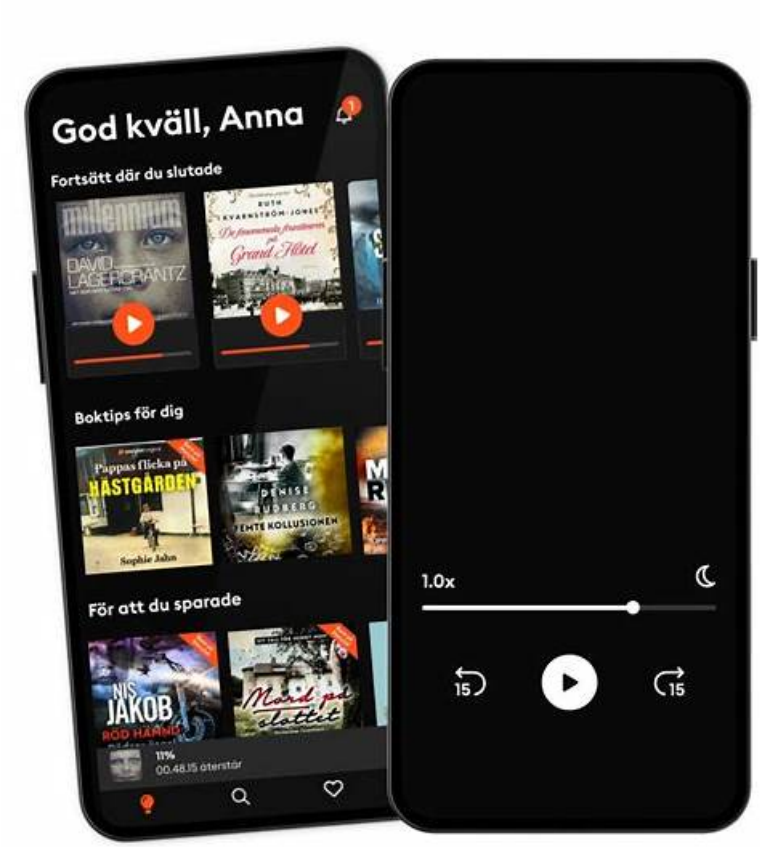

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WGU Introduction to Cryptography HNO1 Sample Questions (Q64-Q69):

NEW QUESTION # 64
(Which encryption process sends a list of cipher suites that are supported for encrypted communications?)

- A. Forward secrecy
- B. ClientHello
- C. ServerHello
- D. Integrity check

Answer: B

Explanation:
In the TLS handshake, the ClientHello message is the client's opening negotiation message and includes the client's supported cryptographic capabilities. A key part of ClientHello is the offered cipher suites list, which advertises combinations of key exchange, authentication, encryption, and integrity/AEAD algorithms the client is willing to use. The server responds with ServerHello, selecting one of the offered cipher suites (in TLS 1.2 and earlier) and confirming protocol parameters. Forward secrecy is a property achieved by using ephemeral key exchange (e.g., (EC)DHE), not a specific message that "sends a list." "Integrity check" is a security goal/mechanism, not the negotiation step. While TLS 1.3 changes the structure of negotiation (cipher suite list still appears in ClientHello but only covers AEAD and hash; key exchange is negotiated via extensions), the fundamental idea remains: the client proposes supported cipher suites in ClientHello, and the server picks compatible parameters. Therefore, the process that sends the list of supported cipher suites is the ClientHello.

NEW QUESTION # 65
(Which cryptographic operation has the fastest decryption process?)

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

Answer: D

Explanation:
Symmetric cryptography generally provides the fastest encryption and decryption performance among common cryptographic operations. Algorithms like AES and ChaCha20 are designed for high throughput and efficient implementation in software and hardware (e.g., AES-NI acceleration). Symmetric decryption is computationally similar in cost to symmetric encryption, and both are far faster than asymmetric operations for equivalent security levels. Asymmetric cryptography (RSA, ECC) involves expensive mathematical operations (modular exponentiation or elliptic-curve scalar multiplication), making it much slower and unsuitable for bulk data decryption. That is why real-world secure protocols use asymmetric cryptography primarily to authenticate peers and establish keys, then switch to symmetric encryption for the actual data stream. Hashing is not decryption at all; it is one-way, and there is no "decrypt" operation for a hash. Padding is not a decryption mechanism; it is a formatting step used with block ciphers to align plaintext length.
Therefore, the correct choice for the operation with the fastest decryption process is symmetric cryptography.

NEW QUESTION # 66
(Which number of bits gets encrypted each time encryption is applied during stream encryption?)

- A. 0
- B. 1
- C. 2
- D. 3

Answer: B

Explanation:
In the classical definition, a stream cipher encrypts data in very small units-often described as one bit at a time-by combining plaintext with a keystream (commonly via XOR). While many practical stream ciphers operate on bytes or words for efficiency, the conceptual distinction compared to block ciphers is that stream encryption processes data as a continuous stream rather than fixed-size blocks.
This is why the standard teaching answer is "1 bit" per application of the keystream. Block ciphers, by contrast, encrypt blocks like

64 bits (DES/3DES) or 128 bits (AES) in each invocation of the block primitive. Options like 40, 192, and 256 are not typical stream cipher "per-step" processing sizes; 40 and 256 are often associated with key sizes, and 192 could be a key size for AES, not an encryption granularity. The essential security requirement for stream ciphers is that the keystream must be unpredictable and never reused with the same key/nonce combination; otherwise XOR properties allow attackers to recover relationships between plaintexts. Thus, the best answer is 1.

NEW QUESTION # 67
(What is an attribute of RC4 when used with WEP?)

- A. 512-bit key
- B. 40-bit key
- C. 128-bit key
- D. 256-bit key

Answer: B

Explanation:
In classic WEP deployments, RC4 was used with what is commonly called "40-bit WEP" (also labeled "64- bit WEP" because it combines a 40-bit secret key with a 24-bit IV to form a 64-bit RC4 seed). The key attribute emphasized in many foundational descriptions of WEP is this 40-bit shared secret length, which was originally chosen due to export restrictions and legacy constraints. Although "104-bit WEP" (sometimes called "128-bit WEP," again counting the 24-bit IV) also existed, the option set here points to the historically standard and widely referenced attribute: a 40-bit key when RC4 is used in WEP. Importantly, WEP's security failure is not only about key size; the 24-bit IV is too small and repeats frequently, and WEP's key scheduling vulnerabilities combined with IV reuse allow attackers to recover the secret key with enough captured frames. Still, among the given options, the correct attribute is the 40-bit key.

NEW QUESTION # 68
(Which cryptographic operation uses a single key?)

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

Answer: D

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 # 69
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