

What are some of the weaknesses of the WEP scheme? Check all that apply.

1 / 1 point

☒ Its use of the RC4 stream cipher



Correct

You nailed it! The RC4 stream cipher had a number of design flaws and weaknesses. WEP also used a small IV value, causing frequent IV reuse. Lastly, the way that the encryption keys were generated was insecure.

☐ Its use of ASCII characters for passphrases

☒ Its poor key generation methods



Correct

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☒ Its small IV pool size



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2. What symmetric encryption algorithm does WPA2 use?

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☐ RSA

☐ DES

☐ DSA

☒ AES



Correct

Great work! WPA2 uses CCMP. This utilizes AES in counter mode, which turns a block cipher into a stream cipher.

3. How can you reduce the likelihood of WPS brute-force attacks? Check all that apply.

1 / 1 point

☐ Update firewall rules.

☒ Disable WPS.

☒ **Correct**

Exactly! Ideally, you should disable WPS entirely if you can. If you need to use it, then you should use a lockout period to block connection attempts after a number of incorrect ones.

☒ Implement lockout periods for incorrect attempts.

☒ **Correct**

Exactly! Ideally, you should disable WPS entirely if you can. If you need to use it, then you should use a lockout period to block connection attempts after a number of incorrect ones.

☐ Use a very long and complex passphrase.

4. Select the most secure WiFi security configuration from below:

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☐ WEP 128 bit

☒ WPA2 enterprise

☐ WPA2 personal

☐ WPA enterprise

☐ None

☐ WPA personal

☒ **Correct**

Exactly right! WPA2 Enterprise would offer the highest level of security for a WiFi network. It offers the best encryption options for protecting data from eavesdropping third parties, and does not suffer from the manageability or authentication issues that WPA2 Personal has with a shared key mechanism. WPA2 Enterprise used with TLS certificates for authentication is one of the best solutions available.

