





Conditionals should start on new lines "params" should not be introduced on "[Optional]" should not be used on "ref" Non-flags enums should not be used

or "out" parameters

in bitwise operations

Inner class members should not

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Analyze your code cwe privacy owasp sans-top25 Strong cipher algorithms are cryptographic systems resistant to cryptanalysis, they are not vulnerable to well-known attacks like brute force attacks for example. A general recommendation is to only use cipher algorithms intensively tested and More specifically for block cipher, it's not recommended to use algorithm with a Noncompliant Code Example For System.Security.Cryptography library, these old cryptographic algorithms should no longer be used for any reason: var tripleDES1 = new TripleDESCryptoServiceProvider(); // No var simpleDES = new DESCryptoServiceProvider(); // Noncompli var RC2 = new RC2CryptoServiceProvider(); // Noncompliant: R For Bouncycastle library, AESFastEngine has a side channel leak, it is possible to gain information about the key used to initialize the cipher: AesFastEngine aesFast = new AesFastEngine(); // Noncompliant **Compliant Solution** For System.Security.Cryptography library, it's recommended to use AesCryptoServiceProvider: var AES = new AesCryptoServiceProvider(); // Compliant For Bouncycastle library, it's recommended to use AESEngine: var AES = new AESEngine(); // Compliant See OWASP Top 10 2021 Category A2 - Cryptographic Failures

- OWASP Top 10 2017 Category A3 Sensitive Data Exposure
- MITRE, CWE-327 Use of a Broken or Risky Cryptographic Algorithm
- SANS Top 25 Porous Defenses

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shadow outer class "static" or type members

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"Explicit" conversions of "foreach" loops should not be used

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Instance members should not write to "static" fields

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"IndexOf" checks should not be for positive numbers

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