

Secrets

ABAP

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**TypeScript**

T-SQL

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TypeScript static code analysis

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your TYPESCRIPT code

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Tags

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security-sensitive

Security Hotspot

Using weak hashing algorithms is security-sensitive

Security Hotspot

Disabling CSRF protections is security-sensitive

Security Hotspot

Using pseudorandom number generators (PRNGs) is security-sensitive

Security Hotspot

Dynamically executing code is security-sensitive

Security Hotspot

Equality operators should not be used in "for" loop termination conditions

Code Smell

Tests should not execute any code after "done()" is called

Code Smell

Union and intersection types should not be defined with duplicated elements

Code Smell

"default" clauses should be last

Code Smell

"await" should only be used with promises

Code Smell

A conditionally executed single line should be denoted by indentation

Code Smell

Conditionals should start on new lines

Cipher algorithms should be robust

Analyze your code

Vulnerability

Critical

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 promoted by the cryptographic community.

More specifically for block cipher, it's not recommended to use algorithm with a block size inferior than 128 bits.

Noncompliant Code Example

crypto built-in module:

```
crypto.createCipheriv("DES", key, iv); // Noncompliant: DES
crypto.createCipheriv("DES-EDE", key, ""); // Noncompliant:
crypto.createCipheriv("DES-EDE3", key, ""); // Noncompliant:
crypto.createCipheriv("RC2", key, iv); // Noncompliant: RC2
crypto.createCipheriv("RC4", key, ""); // Noncompliant: RC4 i
crypto.createCipheriv("BF", key, iv); // Noncompliant: Blowfi
```

Compliant Solution

crypto built-in module:

```
crypto.createCipheriv("AES-256-GCM", key, iv);
```

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

Available In:

sonarlint

sonarcloud






sonarqube

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https://rules.sonarsource.com/typescript/RSPEC-5547

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 Code Smell
<b>Cognitive Complexity of functions should not be too high</b>  Code Smell
<b>"void" should not be used</b>  Code Smell
<b>Loop counters should not be assigned to from within the loop body</b>  Code Smell
<b>"for" loop increment clauses should modify the loops' counters</b>  Code Smell