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 RPG


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 Swift


 Terraform


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 **TypeScript**

 T-SQL

 VB.NET

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TypeScript static code analysis

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

All rules 279

Vulnerability 27

Bug 51

Security Hotspot 43


Code Smell 158

Quick Fix 50


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return anything should not be used

 Bug


Comma and logical OR operators should not be used in switch cases

 Bug


Generators should "yield" something

 Bug


"new" operators should be used with functions

 Bug


Non-existent operators '+=', '-=' and '!=' should not be used

 Bug


"NaN" should not be used in comparisons

 Bug


A "for" loop update clause should move the counter in the right direction

 Bug


Return values from functions without side effects should not be ignored

 Bug


Special identifiers should not be bound or assigned

 Bug


Values should not be uselessly incremented

 Bug

Related "if/else if" statements should not have the same condition

 Bug

Objects should not be created to be dropped immediately without being used

 Bug

Using weak hashing algorithms is security-sensitive

Analyze your code

Security Hotspot Critical cwe spring owasp sans-top25

Cryptographic hash algorithms such as MD2, MD4, MD5, MD6, HAVAL-128, HMAC-MD5, DSA (which uses SHA-1), RIPEMD, RIPEMD-128, RIPEMD-160, HMACRIPEMD160 and SHA-1 are no longer considered secure, because it is possible to have collisions (little computational effort is enough to find two or more different inputs that produce the same hash).

Ask Yourself Whether

The hashed value is used in a security context like:

- User-password storage.
- Security token generation (used to confirm e-mail when registering on a website, reset password, etc ...).
- To compute some message integrity.

There is a risk if you answered yes to any of those questions.

Recommended Secure Coding Practices

Safer alternatives, such as SHA-256, SHA-512, SHA-3 are recommended, and for password hashing, it's even better to use algorithms that do not compute too "quickly", like bcrypt, scrypt, argon2 or pbkdf2 because it slows down brute force attacks.

Sensitive Code Example

```
const crypto = require("crypto");

const hash = crypto.createHash('sha1'); // Sensitive
```

Compliant Solution



```
const crypto = require("crypto");





const hash = crypto.createHash('sha512'); // Compliant
```

See

- [OWASP Top 10 2021 Category A2](#) - Cryptographic Failures
- [OWASP Top 10 2017 Category A3](#) - Sensitive Data Exposure
- [OWASP Top 10 2017 Category A6](#) - Security Misconfiguration
- [Mobile AppSec Verification Standard](#) - Cryptography Requirements
- [OWASP Mobile Top 10 2016 Category M5](#) - Insufficient Cryptography
- [MITRE, CWE-1240](#) - Use of a Risky Cryptographic Primitive
- [SANS Top 25](#) - Porous Defenses

Available In:

Identical expressions should not be used on both sides of a binary operator	
 Bug	
All code should be reachable	
 Bug	
Loops with at most one iteration should be refactored	
 Bug	
Variables should not be self-assigned	
 Bug	

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