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PHP static code analysis

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

All rules **268**

Vulnerability **40**

Bug **51**

Security Hotspot **33**

Code Smell **144**

Tags

Search by name...



"=+" should not be used instead of "+="



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



Return values from functions without side effects should not be ignored



Values should not be uselessly incremented



Related "if/else if" statements and "cases" in a "switch" should not have the same condition



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



Identical expressions should not be used on both sides of a binary operator



All code should be reachable



Loops with at most one iteration should be refactored



Short-circuit logic should be used to prevent null pointer dereferences in conditionals



Variables should not be self-assigned

Using weak hashing algorithms is security-sensitive

Analyze your code

Security Hotspot

Critical ?

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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

```
$hash = md5($data); // Sensitive
$hash = sha1($data); // Sensitive
```

Compliant Solution

```
// for a password
$hash = password_hash($password, PASSWORD_BCRYPT); // C

// other context
$hash = hash("sha512", $data);
```

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

 Bug


Useless "if(true){...}" and "if(false){...}" blocks should be removed

 Bug


All "catch" blocks should be able to catch exceptions

 Bug

Constructing arguments of system commands from user input is security-sensitive

 Security Hotspot

Allowing unfiltered HTML content in WordPress is security-sensitive

 Security Hotspot

- [SANS Top 25](#) - Porous Defenses

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