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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...

## Vulnerability

XPath expressions should not be vulnerable to injection attacks

## Vulnerability

I/O function calls should not be vulnerable to path injection attacks

## Vulnerability

LDAP queries should not be vulnerable to injection attacks

## Vulnerability

OS commands should not be vulnerable to command injection attacks

## Vulnerability

Class of caught exception should be defined

## Bug

Caught Exceptions must derive from Throwable

## Bug

Raised Exceptions must derive from Throwable

## Bug

"\$this" should not be used in a static context

## Bug

Hard-coded credentials are security-sensitive

## Security Hotspot

Test class names should end with "Test"

## Code Smell

Tests should include assertions

## Endpoints should not be vulnerable to reflected cross-site scripting (XSS) attacks

Analyze your code

Vulnerability

Blocker

injection cwe sans-top25 owasp

User-provided data, such as URL parameters, POST data payloads, or cookies, should always be considered untrusted and tainted. Furthermore, when processing an HTTP request, a web server may copy user-provided data into the body of the HTTP response that is sent back to the user. This behavior is called a "reflection". Endpoints reflecting tainted data could allow attackers to inject code that would eventually be executed in the user's browser. This could enable a wide range of serious attacks like accessing/modifying sensitive information or impersonating other users.

Typically, the solution is one of the following:

- Validate user-provided data based on a whitelist and reject input that is not allowed.
- Sanitize user-provided data from any characters that can be used for malicious purposes.
- Encode user-provided data when it is reflected back in the HTTP response. Adjust the encoding to the output context so that, for example, HTML encoding is used for HTML content, HTML attribute encoding is used for attribute values, and JavaScript encoding is used for server-generated JavaScript.

When sanitizing or encoding data, it is recommended to only use libraries specifically designed for security purposes. Also, make sure that the library you are using is being actively maintained and is kept up-to-date with the latest discovered vulnerabilities.

### Noncompliant Code Example






```
$name = $_GET["name"];
echo "Welcome $name"; // Noncompliant
```

### Compliant Solution

```
$name = $_GET["name"];
$safename = htmlspecialchars($name);
echo "Welcome $safename";
```

### See

- OWASP Top 10 2021 Category A3 - Injection
- OWASP Cheat Sheet - XSS Prevention Cheat Sheet
- OWASP Top 10 2017 Category A7 - Cross-Site Scripting (XSS)
- MITRE, CWE-79 - Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting')
- SANS Top 25 - Insecure Interaction Between Components

 Code Smell
TestCases should contain tests
 Code Smell
Variable variables should not be used
 Code Smell
A new session should be created during user authentication
 Vulnerability
Cipher algorithms should be robust
 Vulnerability
Encryption algorithms should be used with secure mode and padding scheme

Available In:

**sonarcloud** 

**sonarqube** 

Developer  
Edition

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