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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...

test

Code Smell

Tests should include assertions

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

Vulnerability

Server hostnames should be verified during SSL/TLS connections

Vulnerability

Server certificates should be verified during SSL/TLS connections

Vulnerability

LDAP connections should be authenticated

Vulnerability

Cryptographic keys should be robust

Vulnerability

Weak SSL/TLS protocols should not be used

Vulnerability

XPath expressions should not be vulnerable to injection attacks

Analyze your code

Vulnerability **Blocker** **injection cwe owasp**

User-provided data, such as URL parameters, should always be considered untrusted and tainted. Constructing XPath expressions directly from tainted data enables attackers to inject specially crafted values that changes the initial meaning of the expression itself. Successful XPath injection attacks can read sensitive information from XML documents.

Noncompliant Code Example

```
$user = $_GET["user"];
$pass = $_GET["pass"];

$doc = new DOMDocument();
$doc->load("test.xml");
$xpath = new DOMXPath($doc);

$expression = "/users/user[@name='" . $user . "' and @p
$xpath->evaluate($expression); // Noncompliant
```

Compliant Solution

```
$user = $_GET["user"];
$pass = $_GET["pass"];

$doc = new DOMDocument();
$doc->load("test.xml");
$xpath = new DOMXPath($doc);

$user = str_replace("'", "&apos;", $user);
$pass = str_replace("'", "&apos;", $pass);

$expression = "/users/user[@name='" . $user . "' and @p
$xpath->evaluate($expression); // Compliant
```


See

- [OWASP Top 10 2021 Category A3 - Injection](#)
- [OWASP Top 10 2017 Category A1 - Injection](#)
- [MITRE, CWE-20 - Improper Input Validation](#)
- [MITRE, CWE-643 - Improper Neutralization of Data within XPath Expressions](#)


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Regular expressions should not be vulnerable to Denial of Service attacks

 Vulnerability

Hashes should include an unpredictable salt

 Vulnerability

Regular expressions should have valid delimiters

 Bug

Regex lookahead assertions should not be contradictory

 Bug

Back references in regular expressions should only refer to

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