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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

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be used to end lines	Code Smell
More than one property should not be declared per statement	Code Smell
The "var" keyword should not be used	Code Smell
"<?php" and "<?=" tags should be used	Code Smell
File names should comply with a naming convention	Code Smell
Comments should not be located at the end of lines of code	Code Smell
Local variable and function parameter names should comply with a naming convention	Code Smell
Field names should comply with a naming convention	Code Smell
Lines should not end with trailing whitespaces	Code Smell
Files should contain an empty newline at the end	Code Smell
Modifiers should be declared in the correct order	Code Smell
An open curly brace should be located at the beginning of a line	Code Smell

Using command line arguments is security-sensitive

Analyze your code

Security Hotspot

Critical

Using command line arguments is security-sensitive. It has led in the past to the following vulnerabilities:

- [CVE-2018-7281](#)
- [CVE-2018-12326](#)
- [CVE-2011-3198](#)

Command line arguments can be dangerous just like any other user input. They should never be used without being first validated and sanitized.

Remember also that any user can retrieve the list of processes running on a system, which makes the arguments provided to them visible. Thus passing sensitive information via command line arguments should be considered as insecure.

This rule raises an issue when on every program entry points (main methods) when command line arguments are used. The goal is to guide security code reviews.

Ask Yourself Whether

- any of the command line arguments are used without being sanitized first.
- your application accepts sensitive information via command line arguments.

If you answered yes to any of these questions you are at risk.

Recommended Secure Coding Practices

Sanitize all command line arguments before using them.

Any user or application can list running processes and see the command line arguments they were started with. There are safer ways of providing sensitive information to an application than exposing them in the command line. It is common to write them on the process' standard input, or give the path to a file containing the information.

Sensitive Code Example

Builtin access to \$argv

```
function globfunc() {
    global $argv; // Sensitive. Reference to global $argv
    foreach ($argv as $arg) { // Sensitive.
        // ...
    }
}


function myfunc($argv) {
    $param = $argv[0]; // OK. Reference to local $argv param
    // ...
}

foreach ($argv as $arg) { // Sensitive. Reference to $argv.
    // ...
}
```

An open curly brace should be located at the end of a line

 Code Smell

Tabulation characters should not be used

 Code Smell

Method and function names should comply with a naming convention

 Code Smell

Creating cookies with broadly defined "domain" flags is security-sensitive

 Security Hotspot

```
$myargv = $_SERVER['argv']; // Sensitive. Equivalent to $argv

function serve() {
    $myargv = $_SERVER['argv']; // Sensitive.
    // ...
}

myfunc($argv); // Sensitive

$myvar = $HTTP_SERVER_VARS[0]; // Sensitive. Note: HTTP_SERVER_VARS

$options = getopt('a:b:'); // Sensitive. Parsing arguments.

$GLOBALS["argv"]; // Sensitive. Equivalent to $argv.

function myglobals() {
    $GLOBALS["argv"]; // Sensitive
}

$argv = [1,2,3]; // Sensitive. It is a bad idea to override
```

Zend Console

```
new Zend\Console\Getopt(['myopt|m' => 'this is an option']);
```

Getopt-php library

```
new \GetOpt\Option('m', 'myoption', \GetOpt\GetOpt::REQUIRED)
```

See

- [OWASP Top 10 2017 Category A1](#) - Injection
- [MITRE, CWE-88](#) - Argument Injection or Modification
- [MITRE, CWE-214](#) - Information Exposure Through Process Environment
- [SANS Top 25](#) - Insecure Interaction Between Components

Deprecated

This rule is deprecated, and will eventually be removed.

Available In:

sonarcloud  | **sonarqube** 