



ABAP



C С

CloudFormation

COBOL

C#

3 CSS

 \bowtie Flex

-GO

Go 5 HTML

Java

JavaScript JS

Kotlin

Objective C

PHP

PL/I

PL/SQL

Python

RPG

Ruby

Scala

J. Swift

Terraform

Text 月

тѕ TypeScript

T-SQL

VB.NET

VB6

XML



Python static code analysis

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

All rules (216)

6 Vulnerability (29)



Security Hotspot 31



Code Smell (101)

Analyze your code

Tags

📆 Bug 🔷 Major 🕝

identity

New objects should not be created only to check their Search by name...

"pass" should not be used needlessly

A Code Smell

"except" clauses should do more than raise the same issue

A Code Smell

Boolean checks should not be inverted

A Code Smell

Unused local variables should be removed

A 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

Class names should comply with a naming convention

Code Smell

Method names should comply with a naming convention

Code Smell

Track uses of "TODO" tags

Code Smell

HTML autoescape mechanism should not be globally disabled

Vulnerability

Variables, classes and functions should be either defined or imported

📆 Bug

Identity operators is and is not check if the same object is on both sides,

When a new object is created it will have its own identity. Thus if an object is created and used only in an identity check it is not possible for the other operand to be the same object. The comparison is always False or always True depending on the operator used, is or is not. To avoid this problem the identity operator could be replaced with an equality operator (== or !=), which will use __eq__ or __ne__ methods under the hood.

This rule raises an issue when at least one operand of an identity operator is a new object which has been created just for this check, i.e.:

• When it is a dict, list or set literal.

i.e. a is breturns True if id(a) == id(b).

- When it is a call to dict, set, list or complex built-in functions.
- When such a new object is assigned to only one variable and this variable is used in an identity check.

Noncompliant Code Example

```
def func(param):
   param is {1: 2} # Noncompliant; always False
   param is not {1, 2, 3} # Noncompliant; always True
    param is [1, 2, 3] # Noncompliant; always False
    param is dict(a=1) # Noncompliant; always False
    mylist = [] # mylist is assigned a new object
    param is mylist # Noncompliant; always False
```

Compliant Solution

```
def func(param):
   param == {1: 2}
   param != \{1, 2, 3\}
    param == [1, 2, 3]
    param == dict(a=1)
    mylist = []
    param == mylist
```

- Why does Python 3.8 log a SyntaxWarning for 'is' with literals? Adam Johnson
- Equality vs identity Trey Hunner

"_exit_" should accept type, value, and traceback arguments

Bug

"return" and "yield" should not be used in the same function

Bug

Track lack of copyright and license headers

Code Smell

HTTP response headers should not be vulnerable to injection attacks

Vulnerability

Regular expressions should be syntactically valid

Available In:
sonarlint ⊖ | sonarcloud ♂ | sonarqube

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