



1 Ruby

Scala

Swift

Terraform

Text

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

Code Smell (101) All rules (216) 6 Vulnerability 29 **∰** Bug (55) Security Hotspot 31

Using publicly writable directories is security-sensitive Security Hotspot Using clear-text protocols is securitysensitive Security Hotspot

Expanding archive files without controlling resource consumption is security-sensitive

Security Hotspot

Signalling processes is securitysensitive

Security Hotspot

Configuring loggers is securitysensitive

Security Hotspot

Using weak hashing algorithms is security-sensitive

Security Hotspot

Disabling CSRF protections is security-sensitive

Security Hotspot

Using non-standard cryptographic algorithms is security-sensitive

Security Hotspot

Using pseudorandom number generators (PRNGs) is securitysensitive

Security Hotspot

Constants should not be used as conditions

A Code Smell

"SystemExit" should be re-raised

Code Smell

Bare "raise" statements should only be used in "except" blocks

String formatting should not lead to runtime errors

Analyze your code

Search by name...

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Tags

Formatting strings, either with the % operator or str.format method, requires a valid string and arguments matching this string's replacement fields.

This rule raises an issue when formatting a string will raise an exception because the input string or arguments are invalid. Rule {rule:python:S3457} covers cases where no exception is raised and the resulting string is simply not formatted properly.

Noncompliant Code Example

print('Error code %d' % '42') # Noncompliant. Replace this print('User {1} is not allowed to perform this action'.forma print('User {0} has not been able to access {}'.format('Alic print('User {a} has not been able to access {b}'.format(a='A

Compliant Solution

print('Error code %d' % 42) print('User {0} is not allowed to perform this action'.forma print('User {0} has not been able to access {1}'.format('Ali print('User {a} has not been able to access {b}'.format(a='A

See

- Python documentation Format String Syntax
- · Python documentation printf-style String Formatting

Available In:

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Code Smell

Comparison to None should not be constant

Code Smell

Self" should be the first argument to instance methods

Code Smell

Function parameters' default values should not be modified or assigned

Code Smell

Some special methods should return