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5 HTMI

Java

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PL/I

PL/SQL

Python

RPG

Ruby

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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

All rules (216) 6 Vulnerability 29 **♣** Bug (55)

Security Hotspot 31

Code Smell (101)

Search by name...

runctions snould not have too many lines of code

A Code Smell

Track uses of "NOSONAR" comments

Code Smell

Track comments matching a regular

Code Smell

Statements should be on separate lines

Code Smell

Functions should not contain too many return statements

A Code Smell

Files should not have too many lines of code

Code Smell

Lines should not be too long

Code Smell

Methods and properties that don't access instance data should be static

Code Smell

New-style classes should be used

A Code Smell

Parentheses should not be used after certain keywords

A Code Smell

Track "TODO" and "FIXME" comments that do not contain a reference to a person

Code Smell

Module names should comply with a naming convention

Code Smell

Reading the Standard Input is security-sensitive

Tags

Analyze your code

Security Hotspot Oritical

Reading Standard Input is security-sensitive. It has led in the past to the following vulnerabilities

• CVE-2005-2337

CVE-2017-11449

It is common for attackers to craft inputs enabling them to exploit software vulnerabilities. Thus any data read from the standard input (stdin) can be dangerous and should be validated

This rule flags code that reads from the standard input.

Ask Yourself Whether

• data read from the standard input is not sanitized before being used.

You are at risk if you answered yes to this question.

Recommended Secure Coding Practices

Sanitize all data read from the standard input before using it.

Sensitive Code Example

Python 2 and Python 3

print(line)

import sys

```
# Any reference to sys.stdin or sys.__stdin__ without a meth
svs.stdin # Sensitive
for line in sys.stdin: # Sensitive
```

it = iter(sys.stdin) # Sensitive

from sys import stdin, __stdin__

line = next(it)

Calling the following methods on stdin or stdin is sen sys.stdin.read() # Sensitive sys.stdin.readline() # Sensitive

sys.stdin.readlines() # Sensitive

Calling other methods on stdin or __stdin__ does not requi sys.stdin.seekable() # 0k

Python 2 only

raw_input('What is your password?') # Sensitive

Python 3 only

Comments should not be located at the end of lines of code

Code Smell

Lines should not end with trailing whitespaces

A Code Smell

Files should contain an empty newline at the end

Code Smell

Long suffix "L" should be upper case

Code Smell

```
input('What is your password?') # Sensitive
```

Function fileinput.input and class fileinput.FileInput read the standard input when the list of files is empty.

```
for line in fileinput.input(): # Sensitive
    print(line)

for line in fileinput.FileInput(): # Sensitive
    print(line)

for line in fileinput.input(['setup.py']): # Ok
    print(line)

for line in fileinput.FileInput(['setup.py']): # Ok
    print(line)
```

مم

• MITRE, CWE-20 - Improper Input Validation

Deprecated

This rule is deprecated, and will eventually be removed.

Available In:

sonarcloud 👌 | sonarqube

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