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# Python static code analysis

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

All rules 216

Vulnerability 29

Bug 55

Security Hotspot 31

Code Smell 101

Tags ▾

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Functions should not have too many lines of code
Code Smell
Track uses of "NOSONAR" comments
Code Smell
Track comments matching a regular expression
Code Smell
Statements should be on separate lines
Code Smell
Functions should not contain too many return statements
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
Code Smell
Parentheses should not be used after certain keywords
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

Unused assignments should be removed

Analyze your code

Code Smell

Major ?

cwe unused

A dead store happens when a local variable is assigned a value that is not read by any subsequent instruction. Calculating or retrieving a value only to then overwrite it or throw it away, could indicate a serious error in the code. Even if it's not an error, it is at best a waste of resources. Therefore all calculated values should be used.

Noncompliant Code Example

```
def func(a, b, compute):
    i = a + b # Noncompliant; calculation result not used
    i = compute() # Noncompliant; the value is not used
```

Compliant Solution

```
def func(a, b, compute):
    i = a + b
    i += compute()
    return i
```

Exceptions

This rule ignores initializations to -1, 0, 1, None, True, False and "".


No issue will be raised on unpacked variables.

See

- [MITRE, CWE-563](#) - Assignment to Variable without Use ('Unused Variable')

Available In:

sonarlint | sonarcloud | sonarqube

 Code Smell

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

 Code Smell

Lines should not end with trailing whitespaces

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Files should contain an empty newline at the end

 Code Smell

Long suffix "L" should be upper case

 Code Smell