



Secrets



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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)

6 Vulnerability (29)



Security Hotspot 31



Code Smell (101)

Tags

Search by name...



String formatting should not lead to runtime errors

R Bug

Recursion should not be infinite

Silly equality checks should not be made

Rug Bug

Granting access to S3 buckets to all or authenticated users is securitysensitive

Security Hotspot

Hard-coded credentials are securitysensitive

Security Hotspot

Functions returns should not be invariant

A Code Smell

The "exec" statement should not be used

A Code Smell

Backticks should not be used

Code Smell

Methods and field names should not differ only by capitalization

Code Smell

JWT should be signed and verified

Vulnerability

Cipher algorithms should be robust

Vulnerability

Encryption algorithms should be used

Special methods should have an expected number of parameters

Analyze your code

Rug Blocker

Python developers can customize how code is interpreted by defining special methods (also called magic methods). For example, it is possible to override how the multiplication operator (a \* b) will apply to instances of a class by defining in this class the \_\_mul\_\_ and \_\_rmul\_\_ methods. Whenever a multiplication operation is performed with this class, the python interpreter will call one of these methods instead of performing the default multiplication.

The python interpreter will always call these methods with the same number of parameters. Every call to a special method will fail if it is defined with an unexpected number of parameters

This rule raises an issue when a special method is defined with an unexpected number of parameters.

## **Noncompliant Code Example**

```
class A:
   def __mul__(self, other, unexpected): # Noncomplia
       return 42
   def __add__(self): # Noncompliant. Missing one par
       return 42
A() * 3 # TypeError: __mul__() missing 1 required posi
A() + 3 # TypeError: __add__() takes 1 positional argu
```

## **Compliant Solution**

```
class A:
    def __mul__(self, other):
       return 42
    def __add__(self, other):
        return 42
A() * 3
A() + 3
```

- Python Documentation Special method names
- Python Documentation copy module

Available In:

with secure mode and padding scheme  Culnerability
Server hostnames should be verified during SSL/TLS connections  Uulnerability
Insecure temporary file creation methods should not be used  Uulnerability
Server certificates should be verified during SSL/TLS connections  Ullnerability
LDAP connections should be authenticated

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