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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

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Code Smell 101

Tags ▾

Search by name...

Vulnerability

Repeated patterns in regular expressions should not match the empty string



Function parameters initial values should not be ignored



Disabling versioning of S3 buckets is security-sensitive



Disabling server-side encryption of S3 buckets is security-sensitive



Having a permissive Cross-Origin Resource Sharing policy is security-sensitive



Delivering code in production with debug features activated is security-sensitive



Allowing both safe and unsafe HTTP methods is security-sensitive



Creating cookies without the "HttpOnly" flag is security-sensitive



Creating cookies without the "secure" flag is security-sensitive



Using hardcoded IP addresses is security-sensitive



Regular expression quantifiers and character classes should be used

Functions and methods should not be empty

Analyze your code

Code Smell

Critical

suspicious

There are several reasons for a function or a method not to have a body:

- It is an unintentional omission, and should be fixed to prevent an unexpected behavior in production.
- It is not yet, or never will be, supported. In this case an exception should be thrown.
- The method is an intentionally-blank override. In this case a nested comment should explain the reason for the blank override.

Noncompliant Code Example

```
def myfunc1(foo="Noncompliant"):  
    pass  
  
class MyClass:  
    def mymethod1(self, foo="Noncompliant"):  
        pass
```

Compliant Solution

```
def myfunc1():  
    pass # comment explaining why this function is empty  
  
def myfunc2():  
    raise NotImplementedError()  
  
def myfunc3():  
    """  
    Docstring explaining why this function is empty.  
    """  
  
class MyClass:  
    def mymethod1(self):  
        pass # comment explaining why this function is empty  
  
    def mymethod2(self):  
        raise NotImplementedError()  
  
    def mymethod3(self):  
        """  
        Docstring explaining why this method is empty. Note  
        which are meant to be subclassed.  
        """
```

Exceptions

No issue will be raised when the empty method is abstract and meant to be overridden in a subclass, i.e. it is decorated with `abc.abstractmethod`, `abc.abstractstaticmethod`, `abc.abstractclassmethod` or

concisely

 Code Smell

Character classes should be preferred over reluctant quantifiers in regular expressions

 Code Smell

A subclass should not be in the same "except" statement as a parent class

 Code Smell

Walrus operator should not make code confusing

 Code Smell

`abc.abstractproperty`. Note however that these methods should normally have a docstring explaining how subclasses should implement these methods.

```
import abc

class MyAbstractClass(abc.ABC):
    @abc.abstractproperty
    def myproperty(self):
        pass

    @abc.abstractclassmethod
    def myclassmethod(cls):
        pass

    @abc.abstractmethod
    def mymethod(self):
        pass

    @abc.abstractstaticmethod
    def mystaticmethod():
        pass
```

Available In:

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