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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)

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Code Smell (101)

Identity comparisons should not be used with cached typed

Code Smell

Expressions creating sets should not have duplicate values

Code Smell

Expressions creating dictionaries should not have duplicate keys

Code Smell

Special method " exit " should not re-raise the provided exception

Code Smell

Unused scope-limited definitions should be removed

Code Smell

Functions and methods should not have identical implementations

Code Smell

Unused private nested classes should be removed

Code Smell

String formatting should be used correctly

Code Smell

Conditional expressions should not be

Code Smell

Loops without "break" should not have "else" clauses

Code Smell

Doubled prefix operators "not" and "~" should not be used

A Code Smell

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

Tags

Code Smell

Analyze your code

error-handling unpredictable confusing

A bare raise statement, i.e. a raise with no exception provided, will reraise the last active exception in the current scope. If the "raise" statement is not in an except or finally block, no exception is active and a RuntimeError is raised instead.

If the bare raise statement is in a function called in an except statement, the exception caught by the except, will be raised. This works but is hard to understand and maintain. Nothing indicates in the parent except that the exception will be reraised, and nothing prevents a developer from calling the function in another context.

Note also that using a bare ${\tt raise}$ in a ${\tt finally}$ block only works when an exception is active, i.e. when an exception from the try block is not caught or when an exception is raised by an except block. It will fail in any other case and should not be relied upon. This code smell is handled by rule {rule:pvthon:S5704}.

This rule raises an exception when a bare raise statement is not in an except or finally block.

Noncompliant Code Example

```
raise # Noncompliant
def foo():
    raise
         # Noncompliant
        raise # Noncompliant
    except ValueError as e:
        handle error()
    except:
        raise
    else:
        raise # Noncompliant
    finally:
        raise
def handle_error():
    raise # Noncompliant. This works but is hard to un
```

Compliant Solution

```
raise ValueError()
def foo():
    raise ValueError()
```

The "print" statement should not be used

Code Smell

"<>" should not be used to test inequality

Code Smell
 Code Smell

Two branches in a conditional structure should not have exactly the same implementation

Code Smell

Unused assignments should be removed

Code Smell

```
try:
    raise ValueError()
except:
    raise
else:
    raise ValueError()
finally:
    raise
```

See

• Python Documentation - The raise statement

Available In

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