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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

Search by name...

Code Smell (101)

Code Smell

Builtins should not be shadowed by local variables

A Code Smell

Implicit string and byte concatenations should not be confusing

A Code Smell

Identity comparisons should not be used with cached typed

A Code Smell

Expressions creating sets should not have duplicate values

A Code Smell

Expressions creating dictionaries should not have duplicate keys

A Code Smell

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

Code Smell

Unused scope-limited definitions should be removed

A Code Smell

Functions and methods should not have identical implementations

A Code Smell

Unused private nested classes should be removed

A Code Smell

String formatting should be used correctly

A Code Smell

Conditional expressions should not be

"SystemExit" should be reraised

Tags

Analyze your code

Code Smell

O Critical

error-handling bad-practice suspicious

SystemExit is raised when sys.exit() is called. This exception is expected to propagate up until the application stops. It is ok to catch it when a clean-up is necessary but it should be raised again immediately.

A bare except: statement, i.e. an except without any exception class, is equivalent to except BaseException. Both statements will catch every exception, including SystemExit. It is recommended to catch instead a specific exception. If it is not possible, the exception should be raised again.

Note that it is also a good idea to reraise the KeyboardInterrupt

This rule raises an issue when a bare except:, an except ${\tt BaseException} \ or \ an \ except \ \ {\tt SystemExit} \ don't \ reraise \ the \ exception$

Noncompliant Code Example

```
open("foo.txt", "r")
except SystemExit: # Noncompliant
except KeyboardInterrupt: # No issue raised but be car
   pass
   open("bar.txt", "r")
except BaseException: # Noncompliant
   pass
except: # Noncompliant
   pass
```

Compliant Solution

```
try:
   open("foo.txt", "r")
except SystemExit:
   # clean-up
   raise
except KeyboardInterrupt:
    # clean-up
    raise
   open("bar.txt", "r")
except BaseException as e:
    # clean-up
```

Code Smell

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

Code Smell

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

Code Smell

The "print" statement should not be used

Code Smell

Code Smell

**Code Smell

inequality

Code Smell

```
raise e
except: # Noncompliant
    # clean-up
    raise

# or use a more specific exception

try:
    open("bar.txt", "r")
except FileNotFoundError:
    # process the exception
```

See

- PEP 352 Required Superclass for Exceptions
- Python Documentation Built-in exceptions
- Python Documentation The try statement
- MITRE, CWE-391 Unchecked Error Condition

Available In:

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