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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

Encryption algorithms should be used with secure mode and padding scheme

Vulnerability

Server hostnames should be verified during SSL/TLS connections

Vulnerability

Insecure temporary file creation methods should not be used

Vulnerability

Server certificates should be verified during SSL/TLS connections

Vulnerability

LDAP connections should be authenticated

Vulnerability

Cryptographic key generation should be based on strong parameters

Vulnerability

Weak SSL/TLS protocols should not be used

Vulnerability

Cipher Block Chaining IVs should be unpredictable

Vulnerability

Regular expressions should not be vulnerable to Denial of Service attacks

Vulnerability

Hashes should include an unpredictable salt

Vulnerability

Regex lookahead assertions should not be contradictory

Raised Exceptions must derive from BaseException

Analyze your code

Bug Blocker python3

In Python 3, attempting to raise an object which does not derive from BaseException will raise a `TypeError`. In Python 2 it is possible to raise old-style classes but this shouldn't be done anymore in order to be compatible with Python 3.

If you are about to create a custom Exception class, note that custom exceptions should inherit from `Exception`, not `BaseException`. `Exception` allows people to catch all exceptions except the ones explicitly asking the interpreter to stop, such as `KeyboardInterrupt` and `GeneratorExit` which is not an error. See [PEP 352](#) for more information.

This rule raises an issue when an object which doesn't derive from `BaseException` is raised.

Noncompliant Code Example

```
raise "Something went wrong" # Noncompliant

class A:
    pass

raise A # Noncompliant
```

Compliant Solution

```
class MyError(Exception):
    pass

raise MyError("Something went wrong")
raise MyError
```

See

- [Python documentation - Errors and Exceptions](#)
- [PEP 352 - Required Superclass for Exceptions](#)

Available In:

sonarlint sonarcloud sonarqube

 Bug

Regex boundaries should not be used in a way that can never be matched

 Bug

Exceptions' "`__cause__`" should be either an Exception or None

 Bug

"break" and "continue" should not be used outside a loop

 Bug

Break, continue and return statements should not occur in "finally" blocks

 Bug