

- Secrets
- ABAP
- Apex
- C
- C++
- CloudFormation
- COBOL
- C#
- CSS
- Flex
- Go
- HTML
- Java
- JavaScript
- Kotlin
- Objective C
- PHP
- PL/I
- PL/SQL
- Python**
- RPG
- Ruby
- Scala
- Swift
- Terraform
- Text
- TypeScript
- T-SQL
- VB.NET
- VB6
- XML



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

Security Hotspot 31

Code Smell 101

Tags

Search by name...



JWT should be signed and verified

Vulnerability

Cipher algorithms should be robust

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

Caught Exceptions must derive from BaseException

Analyze your code

Bug Blocker ? python3

In Python 3, attempting to catch in an `except` statement 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.

In order to catch multiple exceptions in an `except` statement, a tuple of exception classes should be provided.

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 the expression used in an `except` statement is not a class deriving from `BaseException` nor a tuple of such classes.

Noncompliant Code Example

```
class CustomException:
    """An Invalid exception class."""

try:
    "a string" * 42
except CustomException: # Noncompliant
    print("exception")
except (None, list()): # Noncompliant * 2
    print("exception")

try:
    "a string" * 42
except [TypeError, ValueError]: # Noncompliant. Lists
    print("exception")
except {TypeError, ValueError}: # Noncompliant. Sets a
    print("exception")
```


Compliant Solution

```
class MyError(Exception):
    pass

try:
    "a string" * 42
except (MyError, TypeError):
    print("exception")
```

See

Hashes should include an unpredictable salt

 Vulnerability

Regex lookahead assertions should not be contradictory

 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

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

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