



 \bowtie Flex

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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 **∰** Bug (55)

Security Hotspot 31

Code Smell (101)

Tags

mysql/mysql-connector-python

Compliant Solution Flask-SQLAlchemy

settings.py

DATABASES = {

import os

Django

from mysql.connector import connection

def configure_app(app, pwd):

'postgresql_db': {

connection.MySQLConnection(host='localhost', user='sonarsour

app.config['SQLALCHEMY DATABASE URI'] = f"postgresql://u

'ENGINE': 'django.db.backends.postgresql',

Calls should not be made to noncallable values

👬 Bug

Property getter, setter and deleter methods should have the expected number of parameters

₩ Bug

Special methods should have an expected number of parameters

👬 Bug

Instance and class methods should have at least one positional parameter

👬 Bug

Boolean expressions of exceptions should not be used in "except" statements

₩ Bug

Caught Exceptions must derive from BaseException

R Bug

Item operations should be done on objects supporting them

👬 Bug

Raised Exceptions must derive from BaseException

Bug

Operators should be used on compatible types

👬 Bug

Function arguments should be passed only once

₩ Bug

Iterable unpacking, "for-in" loops and "yield from" should use an Iterable object

Bug

Search by name... A secure password should be Analyze your code used when connecting to a database ❸ Vulnerability
● Blocker cwe owasp When relying on the password authentication mode for the database connection, a secure password should be chosen. This rule raises an issue when an empty password is used. **Noncompliant Code Example** Flask-SQLAlchemy def configure_app(app): app.config['SQLALCHEMY DATABASE URI'] = "postgresql://us Django # settings.py DATABASES = { 'postgresql_db': { 'ENGINE': 'django.db.backends.postgresql', 'NAME': 'quickdb', 'USER': 'sonarsource', 'PASSWORD': '', # Noncompliant 'HOST': 'localhost', 'PORT': '5432 }

```
'NAME': 'quickdb',

'USER': 'sonarsource',

'PASSWORD': os.getenv('DB_PASSWORD'), # Complia

'HOST': 'localhost',

'PORT': '5432'

}
```

mysql/mysql-connector-python

```
from mysql.connector import connection
import os

db_password = os.getenv('DB_PASSWORD')
connection.MySQLConnection(host='localhost', user='sonarsour')
```

See

- OWASP Top 10 2021 Category A7 Identification and Authentication Failures
- OWASP Top 10 2017 Category A2 Broken Authentication
- OWASP Top 10 2017 Category A3 Sensitive Data Exposure
- MITRE, CWE-521 Weak Password Requirements

Available In:

sonarlint 😔 | sonarcloud 🟡 | sonarqube

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