Code Smell (101)

Search by name...





VB<sub>6</sub> XML



## Python static code analysis

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your PYTHON code

**∰** Bug (55)

Security Hotspot 31

Tags

| Il rules 216 |   |
|--------------|---|
|              | rumerusmiy  |
|              | •   |
|              | P request redirections should not<br>pen to forging attacks                   |
| 6            | /ulnerability   |
|              | erialization should not be<br>erable to injection attacks                     |
| 6 \          | /ulnerability   |
|              | points should not be vulnerable to<br>ected cross-site scripting (XSS)<br>cks |
| 6            | /ulnerability   |
|              | abase queries should not be erable to injection attacks                       |
| 6            | /ulnerability   |
|              | parsers should not be vulnerable<br>XE attacks                                |
| 6 \          | /ulnerability   |
|              | ecure password should be used<br>n connecting to a database                   |
| 6            | /ulnerability   |
|              | th expressions should not be erable to injection attacks                      |
| 6 \          | /ulnerability   |
|              | function calls should not be erable to path injection attacks                 |
| 6 \          | /ulnerability   |
| LDA          | P queries should not be   |
| vuln         | erable to injection attacks /ulnerability                                     |
| <b>1</b> /   | rumerability  |

attacks

Vulnerability

parameters

The number and name of arguments passed to a function should match its

**Dynamic code execution should** not be vulnerable to injection Analyze your code attacks injection cwe owasp sans-top25 Applications that execute code dynamically should neutralize any externallyprovided values used to construct the code. Failure to do so could allow an attacker to execute arbitrary code. This could enable a wide range of serious attacks like accessing/modifying sensitive information or gain full system access The mitigation strategy should be based on whitelisting of allowed values or casting to safe types. **Noncompliant Code Example** from flask import request @app.route('/') def index(): module = request.args.get("module") exec("import urllib%s as urllib" % module) # Noncomplian **Compliant Solution** from flask import request @app.route('/') def index(): module = request.args.get("module") exec("import urllib%d as urllib" % int(module)) # Compli See • OWASP Top 10 2021 Category A3 - Injection OWASP Top 10 2017 Category A1 - Injection • MITRE, CWE-20 - Improper Input Validation • MITRE, CWE-95 - Improper Neutralization of Directives in Dynamically Evaluated Code ('Eval Injection') • SANS Top 25 - Risky Resource Management Available In: sonarcloud 🙆 | sonarqube Developer Edition

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The "open" builtin function should be called with a valid mode

Bug

Only defined names should be listed in "\_all\_"

Bug

Calls should not be made to noncallable values

📆 Bug

Property getter, setter and deleter methods should have the expected