



Secrets



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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)

runctions snould not have too many lines of code

A Code Smell

Track uses of "NOSONAR" comments

Code Smell

Track comments matching a regular expression

Code Smell

Statements should be on separate lines

Code Smell

Functions should not contain too many return statements

Code Smell

Files should not have too many lines of code

Code Smell

Lines should not be too long

Code Smell

Methods and properties that don't access instance data should be static

Code Smell

New-style classes should be used

Code Smell

Parentheses should not be used after certain keywords

A Code Smell

Track "TODO" and "FIXME" comments that do not contain a reference to a person

Code Smell

Module names should comply with a naming convention

Creating cookies without the "secure" flag is securitysensitive

Analyze your code

Security Hotspot

Tags

Minor

we privacy sans-top25 owasp

When a cookie is protected with the secure attribute set to true it will not be send by the browser over an unencrypted HTTP request and thus cannot be observed by an unauthorized person during a man-in-the-middle attack.

Ask Yourself Whether

- the cookie is for instance a session-cookie not designed to be sent over non-HTTPS communication.
- it's not sure that the website contains mixed content or not (ie HTTPS everywhere or not)

There is a risk if you answered yes to any of those questions.

Recommended Secure Coding Practices

- It is recommended to use HTTPs everywhere so setting the secure flag to true should be the default behaviour when creating cookies.
- Set the secure flag to true for session-cookies.

Sensitive Code Example

Flask

```
from flask import Response
@app.route('/')
def index():
    response = Response()
    response.set_cookie('key', 'value') # Sensitive
    return response
```

Compliant Solution

Flask

```
from flask import Response
@app.route('/')
def index():
    response = Response()
    response.set cookie('key', 'value', secure=True) #
    return response
```

See

Code Smell Comments should not be located at the end of lines of code Code Smell Lines should not end with trailing whitespaces Code Smell

Files should contain an empty newline at the end

Code Smell

Long suffix "L" should be upper case

Code Smell

- OWASP Top 10 2021 Category A4 Insecure Design
- OWASP Top 10 2021 Category A5 Security Misconfiguration
- OWASP Top 10 2017 Category A3 Sensitive Data Exposure
- MITRE, CWE-311 Missing Encryption of Sensitive Data
- MITRE, CWE-315 Cleartext Storage of Sensitive Information in a Cookie • MITRE, CWE-614 - Sensitive Cookie in HTTPS Session Without 'Secure' Attribute
- SANS Top 25 Porous Defenses

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