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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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HTTP responses should not be vulnerable to session fixation

Vulnerability

Dynamic code execution should not be vulnerable to injection attacks

Vulnerability

NoSQL operations should not be vulnerable to injection attacks

Vulnerability

HTTP request redirections should not be open to forging attacks

Vulnerability

Deserialization should not be vulnerable to injection attacks

Vulnerability

Endpoints should not be vulnerable to reflected cross-site scripting (XSS) attacks

Vulnerability

Database queries should not be vulnerable to injection attacks

Vulnerability

XML parsers should not be vulnerable to XXE attacks

Vulnerability

A secure password should be used when connecting to a database

Vulnerability

XPath expressions should not be vulnerable to injection attacks

Vulnerability

I/O function calls should not be vulnerable to path injection attacks

Vulnerability

HTTP responses should not be vulnerable to session fixation

Analyze your code

Vulnerability Blocker ? injection cwe owasp

User-provided data, such as URL parameters, should always be considered untrusted and tainted. Constructing cookies directly from tainted data enables attackers to set the session identifier to a known value, allowing the attacker to share the session with the victim. Successful attacks might result in unauthorized access to sensitive information, for example if the session identifier is not regenerated when the victim authenticates.

Typically, the solution to prevent this type of attack is to restrict the cookies that can be influenced with an allow-list.

Noncompliant Code Example

```
from django.http import HttpResponse

def index(request):
    value = request.GET.get("value")
    response = HttpResponse("")
    response["Set-Cookie"] = value # Noncompliant
    response.set_cookie("sessionid", value) # Noncompliant
    return response
```

Compliant Solution

```
from django.http import HttpResponse

def index(request):
    value = request.GET.get("value")
    response = HttpResponse("")
    response["X-Data"] = value
    response.set_cookie("data", value)
    return response
```


See

- [OWASP Top 10 2021 Category A3](#) - Injection
- [OWASP Top 10 2017 Category A1](#) - Injection
- [MITRE, CWE-20](#) - Improper Input Validation
- [MITRE, CWE-384](#) - Session Fixation


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LDAP queries should not be vulnerable to injection attacks

 Vulnerability

OS commands should not be vulnerable to command injection attacks

 Vulnerability

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

 Bug

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

 Bug