Code Smell (101)

Search by name...





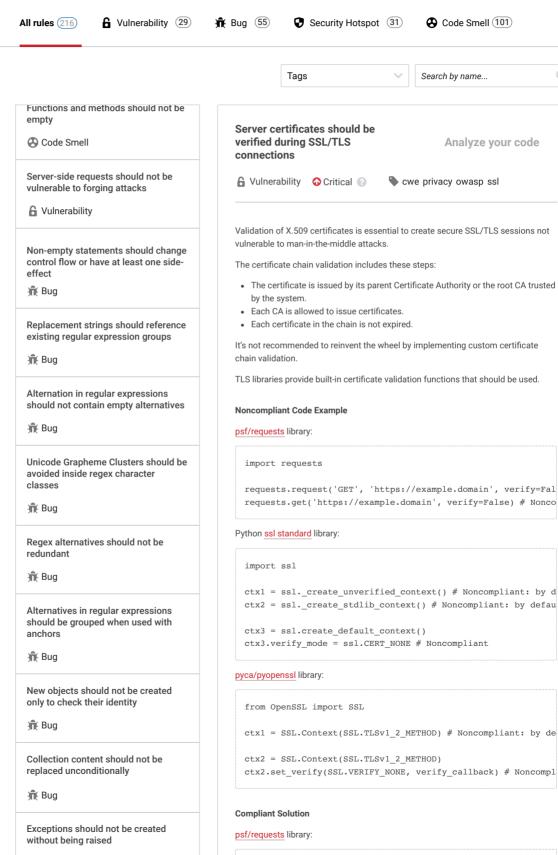


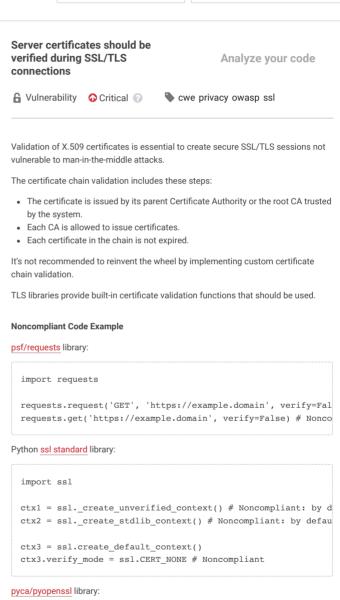
📆 Bug

Collection sizes and array length

Python static code analysis

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





requests.request('GET', 'https://example.domain', verify=Tru

import requests

comparisons should make sense



All branches in a conditional structure should not have exactly the same implementation



The output of functions that don't return anything should not be used

```
🖷 Bug
```

"=+" should not be used instead of "+="



```
requests.request('GET', 'https://example.domain', verify='/p requests.get(url='https://example.domain') # by default cert
```

Python ssl standard library:

```
import ssl

ctx = ssl.create_default_context()
ctx.verify_mode = ssl.CERT_REQUIRED

ctx = ssl._create_default_https_context() # by default certi
```

pyca/pyopenssl library:

```
from OpenSSL import SSL

ctx = SSL.Context(SSL.TLSv1_2_METHOD)
ctx.set_verify(SSL.VERIFY_PEER, verify_callback) # Compliant
ctx.set_verify(SSL.VERIFY_PEER | SSL.VERIFY_FAIL_IF_NO_PEER_
ctx.set_verify(SSL.VERIFY_PEER | SSL.VERIFY_FAIL_IF_NO_PEER_
```

See

- OWASP Top 10 2021 Category A2 Cryptographic Failures
- OWASP Top 10 2021 Category A5 Security Misconfiguration
- OWASP Top 10 2021 Category A7 Identification and Authentication Failures
- OWASP Top 10 2017 Category A3 Sensitive Data Exposure
- OWASP Top 10 2017 Category A6 Security Misconfiguration
- Mobile AppSec Verification Standard Network Communication Requirements
- OWASP Mobile Top 10 2016 Category M3 Insecure Communication
- MITRE, CWE-295 Improper Certificate Validation

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