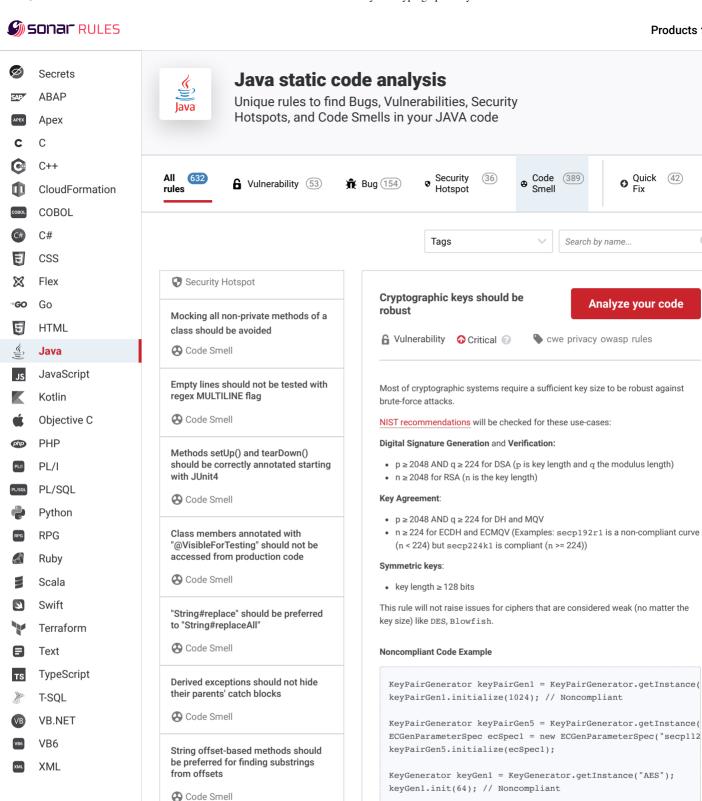
Products ✓

Quick 42 Fix



"default" clauses should be last

"equals" method parameters should not be marked "@Nonnull"

A conditionally executed single line

Conditionals should start on new lines

should be denoted by indentation

Code Smell

Code Smell

Code Smell

Code Smell

## **Compliant Solution**

KeyPairGenerator keyPairGen6 = KeyPairGenerator.getInstance( keyPairGen6.initialize(2048); // Compliant

KeyPairGenerator keyPairGen5 = KeyPairGenerator.getInstance( ECGenParameterSpec ecSpec10 = new ECGenParameterSpec("secp25 keyPairGen5.initialize(ecSpec10);

KeyGenerator keyGen2 = KeyGenerator.getInstance("AES"); keyGen2.init(128); // Compliant

## See

- OWASP Top 10 2021 Category A2 Cryptographic Failures
- OWASP Top 10 2017 Category A3 Sensitive Data Exposure

Cognitive Complexity of methods should not be too high Code Smell Factory method injection should be used in "@Configuration" classes Code Smell "static" base class members should not be accessed via derived types Code Smell Instance methods should not write to "static" fields

Code Smell

OWASP Top 10 2017 Category A6 - Security Misconfiguration

Mobile AppSec Verification Standard - Cryptography Requirements

OWASP Mobile Top 10 2016 Category M5 - Insufficient Cryptography

• NIST 800-131A - Recommendation for Transitioning the Use of Cryptographic Algorithms and Key Lengths

• MITRE, CWE-326 - Inadequate Encryption Strength

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