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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**

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Code Smell **101**

Tags

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### Code Smell

Function return types should be consistent with their type hint

### Code Smell

Character classes in regular expressions should not contain the same character twice

### Code Smell

Type checks shouldn't be confusing

### Code Smell

Regular expressions should not be too complicated

### Code Smell

Builtins should not be shadowed by local variables

### Code Smell

Implicit string and byte concatenations should not be confusing

### Code Smell

Identity comparisons should not be used with cached typed

### Code Smell

Expressions creating sets should not have duplicate values

### Code Smell

Expressions creating dictionaries should not have duplicate keys

### Code Smell

Special method "\_\_exit\_\_" should not re-raise the provided exception

### Code Smell

Unused scope-limited definitions should be removed

### Using non-standard cryptographic algorithms is security-sensitive

Analyze your code

Security Hotspot Critical ? cwe sans-top25 owasp

The use of a non-standard algorithm is dangerous because a determined attacker may be able to break the algorithm and compromise whatever data has been protected. Standard algorithms like `Argon2PasswordHasher`, `BCryptPasswordHasher`, ... should be used instead.

This rule tracks creation of `BasePasswordHasher` subclasses for Django applications.

#### Recommended Secure Coding Practices

- Use a standard algorithm instead of creating a custom one.

#### Sensitive Code Example

```
class CustomPasswordHasher(BasePasswordHasher): # Sensitive Data Exposure
    # ...
```


#### See

- [OWASP Top 10 2021 Category A2](#) - Cryptographic Failures
- [OWASP Top 10 2017 Category A3](#) - Sensitive Data Exposure
- [MITRE, CWE-327](#) - Use of a Broken or Risky Cryptographic Algorithm
- [SANS Top 25](#) - Porous Defenses


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 Code Smell


Functions and methods should not have identical implementations

 Code Smell


Unused private nested classes should be removed

 Code Smell

String formatting should be used correctly

 Code Smell

Conditional expressions should not be nested

 Code Smell