




 Secrets


 ABAP


 Apex


 C


 C++


 CloudFormation


 COBOL


 C#


 CSS


 Flex


 Go


 HTML


 Java


 JavaScript


 Kotlin


 Objective C


 PHP


 PL/I


 PL/SQL


 Python


 RPG


 Ruby


 Scala


 Swift


 Terraform


 Text


 **TypeScript**

 T-SQL

 VB.NET

 VB6


 XML





TypeScript static code analysis


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


All rules279

 Vulnerability27

 Bug51


 Security Hotspot43

 Code Smell158


 Quick Fix50

Tags ▾


Search by name... 🔍

 Code Smell


Primitive types should be omitted from initialized or defaulted declarations




Non-null assertions should not be used




"undefined" should not be assigned




Trailing commas should not be used




Array constructors should not be used




Quotes for string literals should be used consistently




Statements should end with semicolons




Comments should not be located at the end of lines of code




Loops should not contain more than a single "break" or "continue" statement






Variable, property and parameter names should comply with a naming convention



Lines should not end with trailing whitespaces



Allowing confidential information to be logged is security-sensitive

 Security Hotspot Minor ? cwe privacy owasp

Log management is an important topic, especially for the security of a web application, to ensure user activity, including potential attackers, is recorded and available for an analyst to understand what's happened on the web application in case of malicious activities.

Retention of specific logs for a defined period of time is often necessary to comply with regulations such as GDPR, **PCI DSS** and others. However, to protect user's privacy, certain informations are forbidden or strongly discouraged from being logged, such as user passwords or credit card numbers, which obviously should not be stored or at least not in clear text.

Ask Yourself Whether

In a production environment:

- The web application uses confidential information and logs a significant amount of data.
- Logs are externalized to SIEM or Big Data repositories.

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

Recommended Secure Coding Practices

Loggers should be configured with a list of confidential, personal information that will be hidden/masked or removed from logs.

Sensitive Code Example

With **Signale log management framework** the code is sensitive when an empty list of secrets is defined:

```
const { Signale } = require('signale');

const CREDIT_CARD_NUMBERS = fetchFromWebForm()
// here we suppose the credit card numbers are retrieved som

const options = {
  secrets: [] // empty list of secrets
};

const logger = new Signale(options); // Sensitive

CREDIT_CARD_NUMBERS.forEach(function(CREDIT_CARD_NUMBER) {
  logger.log('The customer ordered products with the credit ');
});
```

Compliant Solution

With **Signale log management framework** it is possible to define a list of secrets that will be hidden in logs:


https://rules.sonarsource.com/typescript/RSPEC-5757

1/2


Files should contain an empty newline at the end

 Code Smell

An open curly brace should be located at the end of a line

 Code Smell

Tabulation characters should not be used

 Code Smell

Function and method names should comply with a naming convention

 Code Smell

```
const { Signale } = require('signale');

const CREDIT_CARD_NUMBERS = fetchFromWebForm()
// here we suppose the credit card numbers are retrieved som

const options = {
  secrets: ["([0-9]{4}-?)+"]
};

const logger = new Signale(options); // Compliant

CREDIT_CARD_NUMBERS.forEach(function(CREDIT_CARD_NUMBER) {
  logger.log('The customer ordered products with the credit
});
```

See

- [OWASP Top 10 2021 Category A9](#) - Security Logging and Monitoring Failures
- [MITRE, CWE-532](#) - Insertion of Sensitive Information into Log File
- [OWASP Top 10 2017 Category A3](#) - Sensitive Data Exposure

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