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TypeScript static code analysis

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

All rules	279	🔒 Vulnerability	27	🐛 Bug	51	Security Hotspot	43	Code Smell	158	Quick Fix	50

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added

🔘 Code Smell

Primitive types should be omitted from initialized or defaulted declarations

🔘 Code Smell

Non-null assertions should not be used

🔘 Code Smell

"undefined" should not be assigned

🔘 Code Smell

Trailing commas should not be used

🔘 Code Smell

Array constructors should not be used

🔘 Code Smell

Quotes for string literals should be used consistently

🔘 Code Smell

Statements should end with semicolons

🔘 Code Smell

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

🔘 Code Smell

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

🔘 Code Smell

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

🔘 Code Smell

Lines should not end with trailing whitespaces

🔘 Code Smell

Forwarding client IP address is security-sensitive

Analyze your code

🛡 Security Hotspot   ⚙ Minor ❓   🏷 privacy express.js owasp

Users often connect to web servers through HTTP proxies.

Proxy can be configured to forward the client IP address via the `X-Forwarded-For` or `Forwarded` HTTP headers.

IP address is a personal information which can identify a single user and thus impact his privacy.

Ask Yourself Whether

- The web application uses reverse proxies or similar but doesn't need to know the IP address of the user.

There is a risk if you answered yes to this question.

Recommended Secure Coding Practices

User IP address should not be forwarded unless the application needs it, as part of an authentication, authorization scheme or log management for examples.

Sensitive Code Example

node-http-proxy

```
var httpProxy = require('http-proxy');

httpProxy.createProxyServer({target:'http://localhost:9000',
  .listen(8000);
```

http-proxy-middleware

```
var express = require('express');

const { createProxyMiddleware } = require('http-proxy-middle

const app = express();

app.use('/proxy', createProxyMiddleware({ target: 'http://lo
app.listen(3000);
```

Compliant Solution

node-http-proxy

```
var httpProxy = require('http-proxy');

// By default xfwd option is false
httpProxy.createProxyServer({target:'http://localhost:9000'}
  .listen(8000);
```

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

http-proxy-middleware

```
var express = require('express');

const { createProxyMiddleware } = require('http-proxy-middle

const app = express();

// By default xfwd option is false
app.use('/proxy', createProxyMiddleware({ target: 'http://lo
app.listen(3000);
```

See

- OWASP Top 10 2021 Category A5 - Security Misconfiguration
- OWASP Top 10 2017 Category A3 - Sensitive Data Exposure
- developer.mozilla.org - X-Forwarded-For

Available In:

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