




 Secrets


 ABAP


 Apex


 C


 C++


 CloudFormation


 COBOL


 C#


 CSS


 Flex


 Go


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 Java


 JavaScript


 Kotlin


 Objective C


 PHP


 PL/I


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 Python


 RPG


 Ruby


 Scala


 Swift


 Terraform


 Text


 **TypeScript**

 T-SQL

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 XML





TypeScript static code analysis


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


All rules279

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Tags


Search by name...

Regular expression literals should be used when possible




Code Smell

"await" should not be used redundantly




Code Smell

Redundant casts and non-null assertions should be avoided




Code Smell

Type aliases should be used




Code Smell

Type guards should be used




Code Smell

"module" should not be used




Code Smell

"for of" should be used with Iterables




Code Smell

Imports from the same modules should be merged




Code Smell

Jump statements should not be redundant




Code Smell

Default export names and file names should match




Code Smell

The global "this" object should not be used



Code Smell




"catch" clauses should do more than rethrow



Code Smell

Allowing requests with excessive content length is security-sensitive

Analyze your code

 Security Hotspot Major cwe owasp express.js

Rejecting requests with significant content length is a good practice to control the network traffic intensity and thus resource consumption in order to prevents DoS attacks.

Ask Yourself Whether

- size limits are not defined for the different resources of the web application.
- the web application is not protected by **rate limiting** features.
- the web application infrastructure has limited resources.

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

Recommended Secure Coding Practices

- For most of the features of an application, it is recommended to limit the size of requests to:
 - lower or equal to 8mb for file uploads.
 - lower or equal to 2mb for other requests.

It is recommended to customize the rule with the limit values that correspond to the web application.

Sensitive Code Example

formidable file upload module:

```
const form = new Formidable();
form.maxFileSize = 10000000; // Sensitive: 10MB is more than

const formDefault = new Formidable(); // Sensitive, the defa
```

multer (Express.js middleware) file upload module:

```
let diskUpload = multer({
  storage: diskStorage,
  limits: {
    fileSize: 10000000; // Sensitive: 10MB is more than the
  }
});





let diskUploadUnlimited = multer({ // Sensitive: the default
  storage: diskStorage,
});
```

body-parser module:

```
// 4MB is more than the recommended limit of 2MB for non-fil
let jsonParser = bodyParser.json({ limit: "4mb" }); // Sensi
let urlencodedParser = bodyParser.urlencoded({ extended: fal
```

https://rules.sonarsource.com/typescript/RSPEC-5693

1/2

Boolean checks should not be inverted
 Code Smell
Deprecated APIs should not be used
 Code Smell
Wrapper objects should not be used for primitive types
 Code Smell
Multiline string literals should not be used
 Code Smell
Local variables should not be declared

Compliant Solution

[formidable](#) file upload module:

```
const form = new Formidable();
form.maxFileSize = 8000000; // Compliant: 8MB
```

[multer](#) (Express.js middleware) file upload module:

```
let diskUpload = multer({
  storage: diskStorage,
  limits: {
    fileSize: 8000000 // Compliant: 8MB
  }
});
```

[body-parser](#) module:

```
let jsonParser = bodyParser.json(); // Compliant, when the 1
let urlencodedParser = bodyParser.urlencoded({ extended: fal
```

See

- [OWASP Top 10 2021 Category A5](#) - Security Misconfiguration
- [Owasp Cheat Sheet](#) - Owasp Denial of Service Cheat Sheet
- [OWASP Top 10 2017 Category A6](#) - Security Misconfiguration
- [MITRE, CWE-770](#) - Allocation of Resources Without Limits or Throttling
- [MITRE, CWE-400](#) - Uncontrolled Resource Consumption

Available In:

