




 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 rules 279













Vulnerability 27

Bug 51

Security Hotspot 43

Code Smell 158

Quick Fix 50


NoSQL operations should not be vulnerable to injection attacks

HTTP request redirections should not be open to forging attacks

Endpoints should not be vulnerable to reflected cross-site scripting (XSS) attacks

Database queries should not be vulnerable to injection attacks

XML parsers should not be vulnerable to XXE attacks

I/O function calls should not be vulnerable to path injection attacks

OS commands should not be vulnerable to command injection attacks

Disabling Vue.js built-in escaping is security-sensitive

Disabling Angular built-in sanitization is security-sensitive

Hard-coded credentials are security-sensitive

Function returns should not be invariant


Tags ▾

Search by name... 🔍

Extracting archives should not lead to zip slip vulnerabilities

Analyze your code

 Vulnerability

 Blocker



 injection cwe owasp sans-top25

File names of the entries in a zip archive should be considered untrusted, tainted and should be validated before being used for file system operations. Indeed, file names can contain specially crafted values, such as `../`, that change the initial path and, when accessed, resolve to a path on the filesystem where the user should normally not have access.

A successful attack might give an attacker the ability to read, modify, or delete sensitive information from the file system and sometimes even execute arbitrary operating system commands. This special case of path injection vulnerabilities is called "zip slip".

The mitigation strategy should be based on the whitelisting of allowed paths or characters.

Noncompliant Code Example

```
const AdmZip = require('adm-zip');
const fs = require('fs');

const zip = new AdmZip("zip-slip.zip");
const zipEntries = zip.getEntries();
zipEntries.forEach(function (zipEntry) {
    fs.createWriteStream(zipEntry.entryName); // Noncompliant
});
```

Compliant Solution

```
const AdmZip = require('adm-zip');
const pathmodule = require('path');
const fs = require('fs');


const zip = new AdmZip("zip-slip.zip");
const zipEntries = zip.getEntries();
zipEntries.forEach(function (zipEntry) {
    let resolvedPath = pathmodule.join(__dirname + '/archive_t

    if (resolvedPath.startsWith(__dirname + '/archive_tmp')) {
        // the file cannot be extracted outside of the "archive_
        fs.createWriteStream(resolvedPath); // Compliant
    }
});
```


See

- [OWASP Top 10 2021 Category A1](#) - Broken Access Control
- [OWASP Top 10 2021 Category A3](#) - Injection
- [OWASP Top 10 2017 Category A1](#) - Injection
- [snyk](#) - Zip Slip Vulnerability
- [MITRE, CWE-20](#) - Improper Input Validation


Assertions should be complete

 Code Smell


Tests should include assertions

 Code Smell

Octal values should not be used

 Code Smell




Switch cases should end with an unconditional "break" statement

 Code Smell

"switch" statements should not

- [MITRE, CWE-22](#) - Improper Limitation of a Pathname to a Restricted Directory ('Path Traversal')
- [MITRE, CWE-99](#) - Improper Control of Resource Identifiers ('Resource Injection')
- [MITRE, CWE-641](#) - Improper Restriction of Names for Files and Other Resources
- [SANS Top 25](#) - Risky Resource Management

Available In:

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