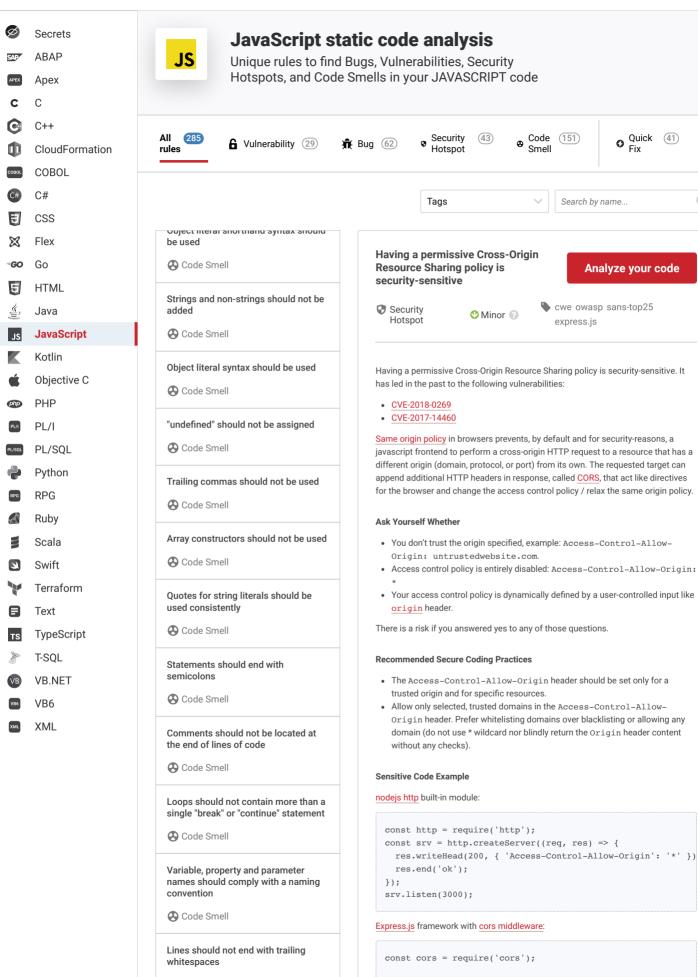


Products ✓

O Quick 41 Fix

Analyze your code



appl.use(cors()); // Sensitive: by default origin is set to

JavaScript static code analysis: Having a permissive Cross-Origin Resource Sharing policy is security-sensitive

Files should contain an empty newline

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

```
let corsOptions = {
  origin: '*' // Sensitive
};
let app2 = express();
app2.use(cors(corsOptions));
```

User-controlled origin:

```
function (req, res) {
  const origin = req.header('Origin');
  res.setHeader('Access-Control-Allow-Origin', origin); // S
};
```

Compliant Solution

nodejs http built-in module:

```
const http = require('http');
const srv = http.createServer((req, res) => {
  res.writeHead(200, { 'Access-Control-Allow-Origin': 'trust
  res.end('ok');
});
srv.listen(3000);
```

Express.js framework with cors middleware:

```
const cors = require('cors');
let corsOptions = {
  origin: 'trustedwebsite.com' // Compliant
};
let app = express();
app.use(cors(corsOptions));
```

User-controlled origin validated with an allow-list:

```
function (req, res) {
  const origin = req.header('Origin');

if (trustedOrigins.indexOf(origin) >= 0) {
  res.setHeader('Access-Control-Allow-Origin', origin);
  }
};
```

See

- OWASP Top 10 2021 Category A5 Security Misconfiguration
- OWASP Top 10 2021 Category A7 Identification and Authentication Failures
- developer.mozilla.org CORS
- developer.mozilla.org Same origin policy
- OWASP Top 10 2017 Category A6 Security Misconfiguration
- OWASP HTML5 Security Cheat Sheet Cross Origin Resource Sharing
- MITRE, CWE-346 Origin Validation Error
- MITRE, CWE-942 Overly Permissive Cross-domain Whitelist
- SANS Top 25 Porous Defenses

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