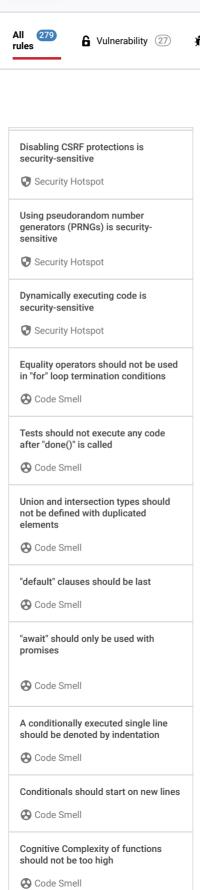
TypeScript static code analysis

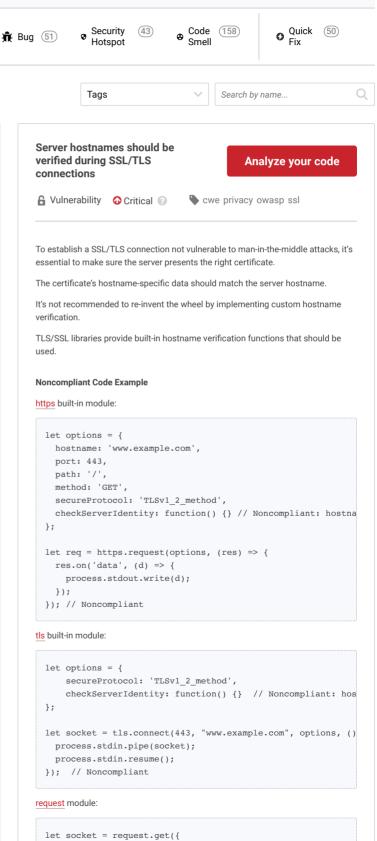
Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your TYPESCRIPT code



Products ✓







url: 'https://www.example.com',

});

secureProtocol: 'TLSv1_2_method',

checkServerIdentity: function() {} // Noncompliant: hos

"void" should not be used

Code Smell

Loop counters should not be assigned to from within the loop body

Code Smell

"for" loop increment clauses should modify the loops' counters

Code Smell

Functions should not be empty

Code Smell

Server-side requests should not be vulnerable to forging attacks

Compliant Solution

https built-in module:

```
let options = {
  hostname: 'www.example.com',
  port: 443,
  path: '/',
  method: 'GET',
  secureProtocol: 'TLSv1_2_method'
};

let req = https.request(options, (res) => {
  res.on('data', (d) => {
    process.stdout.write(d);
  });
}); // Compliant: default checkServerIdentity function is se
```

tls built-in module:

```
let options = {
    secureProtocol: 'TLSv1_2_method',
    checkServerIdentity: (servername, peer) => {
        if (servername !== "www.example.com") {
            return new Error ('Error'); // Compliant: there
        }
    }
};

let socket = tls.connect(443, "www.example.com", options, ()
    process.stdin.pipe(socket);
    process.stdin.resume();
}); // Compliant
```

request module:

```
let socket = request.get({
    url: 'https://www.example.com/',
    secureProtocol: 'TLSv1_2_method' // Compliant
}); // Compliant: default checkServerIdentity function is s
```

See

- OWASP Top 10 2021 Category A2 Cryptographic Failures
- OWASP Top 10 2021 Category A5 Security Misconfiguration
- OWASP Top 10 2021 Category A7 Identification and Authentication Failures
- OWASP Top 10 2017 Category A3 Sensitive Data Exposure
- OWASP Top 10 2017 Category A6 Security Misconfiguration
- Mobile AppSec Verification Standard Network Communication Requirements
- OWASP Mobile Top 10 2016 Category M3 Insecure Communication
- MITRE, CWE-297 Improper Validation of Certificate with Host Mismatch

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