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deep-object-diff 1.1.0 - Prototype Pollution

Summary



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Affected versions	Version 1.1.0	Ī
State	Public	
Release date	2022-11-15	

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-2022-41713



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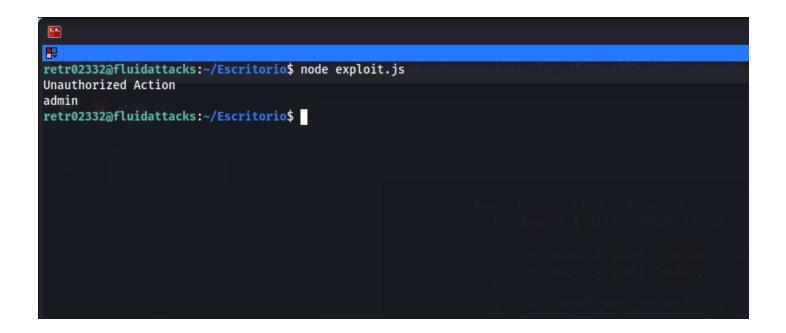
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```
finally {
    create_user(malicious_user_request);
}
```

Evidence of exploitation



Our security policy

We have reserved the CVE-2022-41713 to refer to this issue from now on.



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Operating System: GNU/Linux

Mitigation

An updated version of deep-object-diff is available at the vendor page.

Credits

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

References

Vendor page https://github.com/mattphillips/deep-object-diff

Timeline

- 2022-10-05

 Vulnerability discovered.
- 2022-10-05Vendor contacted.
- 2022-10-05Vendor replied acknowledging the report.
- 2022-10-05Vendor Confirmed the vulnerability.
- 2022-11-12 Vulnerability patched.



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