

SameSite Attackers may Bypass the CSRF Protection

Moderate MGatner published GHSA-5hm8-vh6r-2cjq on Aug 7

Package

CodeIgniter Shield (Composer)

Affected versions

1.0.0-beta

Patched versions

1.0.0-beta.2

Description

Impact

This vulnerability may allow [SameSite Attackers](#) to bypass the [CodeIgniter4 CSRF protection](#) mechanism with CodeIgniter Shield.

For this attack to succeed, the attacker must have direct (or indirect, e.g., XSS) control over a subdomain site (e.g., <https://a.example.com/>) of the target site (e.g., <http://example.com/>).

This vulnerability exists whether `Config\Security::$csrfProtection` is `'cookie'` or `'session'`. It is also exploitable whether `Config\Security::$regenerate` is `true` or `false`.

Patches

Upgrade to **CodeIgniter v4.2.3 or later** and **Shield v1.0.0-beta.2 or later**.

Workarounds

Do all of the following:

- set `Config\Security::$csrfProtection` to `'session'`
- remove old session data right after login (immediately after ID and password match)
- regenerate CSRF token right after login (immediately after ID and password match)

References

- [CodeIgniter4 CSRF Protection](#)
- [SameSite Attacks](#)
- [SameSite Cookies](#)
- [The great SameSite confusion](#)

For more information

If you have any questions or comments about this advisory:

- Open an issue or discussion in [codeigniter4/shield](#)
- Email us at security@codeigniter.com

Severity

Moderate 5.9 / 10

CVSS base metrics

Attack vector	Network
Attack complexity	High
Privileges required	None
User interaction	Required
Scope	Unchanged
Confidentiality	None
Integrity	High
Availability	Low

CVSS:3.1/AV:N/AC:H/PR:N/UI:R/S:U/C:N/I:H/A:L

CVE ID

CVE-2022-35943

Weaknesses

CWE-352

Credits



wert310



pedromigueladao



lavish