

## [0. Info]

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## [1. Missing HTTP Security Headers]

### Clear-Site-Data

Clears browsing data (cookies, storage, cache) associated with the requesting website.

Ref: <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Clear-Site-Data>

### Cross-Origin-Embedder-Policy

Prevents documents and workers from loading non-same-origin requests unless allowed.

Ref: <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Cross-Origin-Embedder-Policy>

### Cross-Origin-Opener-Policy

Prevent other websites from gaining arbitrary window references to a page.

Ref: <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Cross-Origin-Opener-Policy>

### Cross-Origin-Resource-Policy

Protect servers against certain cross-origin or cross-site embedding of the returned source.

Ref: [https://developer.mozilla.org/en-US/docs/Web/HTTP/Cross-Origin\\_Resource\\_Policy\\_\(CORP\)](https://developer.mozilla.org/en-US/docs/Web/HTTP/Cross-Origin_Resource_Policy_(CORP))

### (\*) NEL

Enables web applications to declare a reporting policy to report errors.

Ref: <https://scotthelme.co.uk/network-error-logging-deep-dive/>

### Permissions-Policy

Previously called "Feature-Policy", allow and deny the use of browser features.

Ref: <https://scotthelme.co.uk/goodbye-feature-policy-and-hello-permissions-policy/>

### Referrer-Policy

Controls how much referrer information should be included with requests.

Ref: <https://scotthelme.co.uk/a-new-security-header-referrer-policy/>

### Strict-Transport-Security

Tell browsers that it should only be accessed using HTTPS, instead of using HTTP.

Ref: <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Strict-Transport-Security>

#### **X-Permitted-Cross-Domain-Policies**

Limit which data external resources (e.g. Adobe Flash/PDF documents), can access on the domain.

Ref: <https://owasp.org/www-project-secure-headers/#div-headers>

### **[2. Fingerprint HTTP Response Headers]**

These headers can leak information about software, versions, hostnames or IP addresses:

#### **Via [Generic Proxy server]**

Value: '1.1 varnish, 1.1 varnish'

#### **X-Served-By [Generic HTTP Server/Content Delivery Network]**

Value: 'cache-iad-kcgs7200105-IAD, cache-iad-kcgs7200105-IAD, cache-mad22049-MAD'

### **[3. Deprecated HTTP Response Headers/Protocols and Insecure Values]**

The following headers/protocols are deprecated or their values may be considered unsafe:

#### **Access-Control-Allow-Origin (Unsafe Values)**

Review the values '\*' or 'null' regarding your Cross-origin resource sharing requirements.

Ref: <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Access-Control-Allow-Origin>

#### **Cache-Control (Recommended Values)**

Enable 'no-cache', 'no-store', and 'must-revalidate' if there are sensitive data.

Ref: <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Cache-Control>

#### **Content-Security-Policy (Insecure Schemes)**

Do not allow insecure, unencrypted schemes: 'http:'

Ref: <https://www.cloudflare.com/learning/ssl/why-is-http-not-secure/>

Ref: <https://http.dev/wss>

#### **Content-Security-Policy (Too Permissive Sources)**

Limit these permissive origins: 'data:', '\*', 'blob:'

Ref: <https://content-security-policy.com/>

#### **Content-Security-Policy (Unsafe Values)**

'unsafe-inline' and 'unsafe-eval' negate most of the security benefits provided by this header.

Ref: <https://csper.io/blog/no-more-unsafe-inline>

Ref: [https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\\_Objects/eval](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/eval)

#### Set-Cookie (Insecure Attributes)

Enable 'Secure' and 'HttpOnly': to send it via HTTPS and not be accessed by client APIs.

Ref: <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Set-Cookie>

#### Vary (Potentially Unsafe Header)

The values of this header may expose others, facilitating attacks if user input is accepted.

Ref: <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Vary>

Ref: <https://www.yeswehack.com/fr/learn-bug-bounty/http-header-exploitation>

#### X-XSS-Protection (Deprecated Header)

This header is deprecated in the three major web browsers.

Instead, use the "Content-Security-Policy" header restrictively.

Ref: <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-XSS-Protection>

#### X-XSS-Protection (Unsafe Value)

In some cases values other than '0' can create XSS vulnerabilities.

Instead, use the "Content-Security-Policy" header restrictively.

Ref: <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-XSS-Protection>

### [4. Empty HTTP Response Headers Values]

Empty HTTP headers (and are therefore considered disabled):

Nothing to report, all seems OK!

### [5. Browser Compatibility for Enabled HTTP Security Headers]

Cache-Control: <https://caniuse.com/?search=Cache-Control>

Content-Security-Policy: <https://caniuse.com/?search=contentsecuritypolicy2>

Content-Type: <https://caniuse.com/?search=Content-Type>

Set-Cookie: <https://caniuse.com/?search=Set-Cookie>

Vary: <https://caniuse.com/?search=Vary>

X-Content-Type-Options: <https://caniuse.com/?search=X-Content-Type-Options>

X-XSS-Protection: <https://caniuse.com/?search=X-XSS-Protection>

**[6. Analysis Results]**

Done in 0.45 seconds! (changes with respect to the last analysis in parentheses)

Missing headers:	9 (First Analysis)
Fingerprint headers:	2 (First Analysis)
Deprecated/Insecure headers:	9 (First Analysis)
Empty headers:	0 (First Analysis)
Findings to review:	20 (First Analysis)
Analysis Grade:	D (Review 'Deprecated/Insecure headers')
'(*)' meaning:	Experimental HTTP response header