Laporan penyelesaian masalah

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- [1] Missing security header: Referrer-Policy - Risk Level: 1 (Low) **Vulnerability Details:** - Evidence 1: - URL: https://herself-refused-office-hospitality.trycloudflare.com/ - Evidence: Response headers do not include the Referrer-Policy HTTP security header as well as the <meta> tag with name 'referrer' is not present in the response. Request / Response - Description: We noticed that the target application's server responses lack the <code>Referrer-Policy</code> HTTP header, which controls how much referrer information the browser will send with each request originated from the current web application. - Recommendation: The Referrer-Policy header should be configured on the server side to avoid user tracking and inadvertent information leakage. The value `no-referrer` of this header instructs the browser to omit the Referer header entirely. [2] Missing security header: Strict-Transport-Security - Risk Level: 1 (Low) **Vulnerability Details:** - Evidence 1:
 - URL: https://herself-refused-office-hospitality.trycloudflare.com/
- Evidence: Response headers do not include the HTTP Strict-Transport-Security header Request / Response

- Description: We noticed that the target application lacks the HTTP Strict-Transport-Security header in its responses. This security header is crucial as it instructs browsers to only establish secure (HTTPS) connections with the web server and reject any HTTP connections.
- Recommendation: The Strict-Transport-Security HTTP header should be sent with each HTTPS response. The syntax is as follows: `Strict-Transport-Security: max-age=<seconds>[; includeSubDomains]` The parameter `max-age` gives the time frame for requirement of HTTPS in seconds and should be chosen quite high, e.g. several months. A value below 7776000 is considered as too low by this scanner check. The flag `includeSubDomains` defines that the policy applies also for sub domains of the sender of the response.
- [3] Missing security header: Content-Security-Policy

- Risk Level: 1 (Low)

Vulnerability Details:

- Evidence 1:
 - URL: https://herself-refused-office-hospitality.trycloudflare.com/
- Evidence: Response does not include the HTTP Content-Security-Policy security header or meta tag Request / Response
- Description: We noticed that the target application lacks the Content-Security-Policy (CSP) header in its HTTP responses. The CSP header is a security measure that instructs web browsers to enforce specific security rules, effectively preventing the exploitation of Cross-Site Scripting (XSS) vulnerabilities.
- Recommendation: Configure the Content-Security-Header to be sent with each HTTP response in order to apply the specific policies needed by the application.
- [4] Missing security header: X-Content-Type-Options

- Risk Level: 1 (Low)

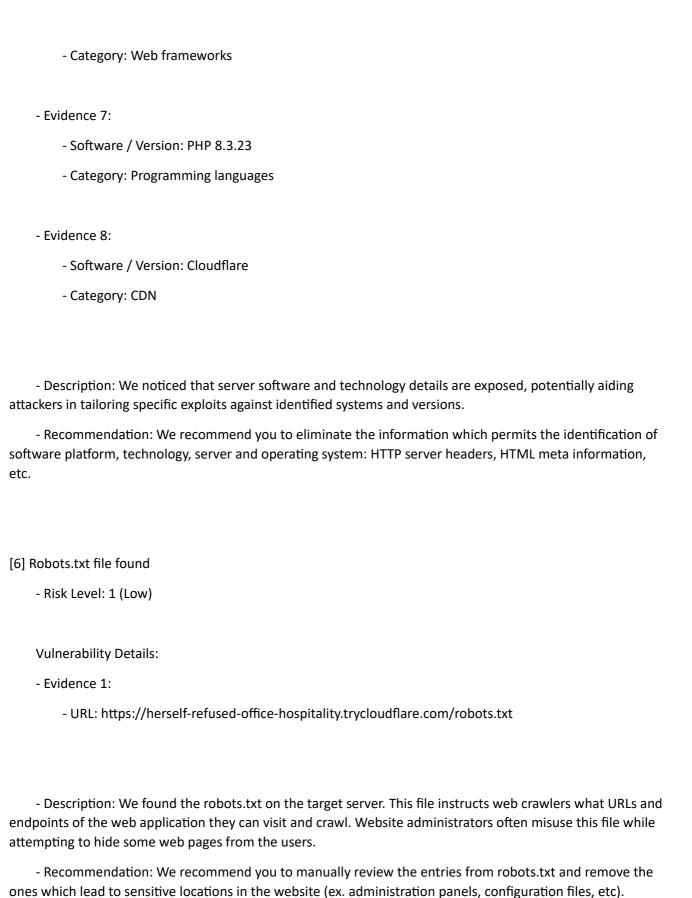
Vulnerability Details:

- Evidence 1:
 - URL: https://herself-refused-office-hospitality.trycloudflare.com/
- Evidence: Response headers do not include the X-Content-Type-Options HTTP security header Request / Response

- Description: We noticed that the target application's server responses lack the <code>X-Content-Type-Options</code> header. This header is particularly important for preventing Internet Explorer from reinterpreting the content of a web page (MIME-sniffing) and thus overriding the value of the Content-Type header.
- Recommendation: We recommend setting the X-Content-Type-Options header such as `X-Content-Type-Options: nosniff`.
- [5] Server software and technology found
 - Risk Level: 1 (Low)

Vulnerability Details:

- Evidence 1:
 - Software / Version: Alpine.js
 - Category: JavaScript frameworks
- Evidence 2:
 - Software / Version: Bunny
 - Category: CDN
- Evidence 3:
 - Software / Version: Bunny Fonts
 - Category: Font scripts
- Evidence 4:
 - Software / Version: Axios
 - Category: JavaScript libraries
- Evidence 5:
 - Software / Version: Livewire
 - Category: Web frameworks, Miscellaneous
- Evidence 6:
 - Software / Version: Laravel



cara penyelesaian

```
Langkah-langkah:
A. Buat Middleware Kustom
bash
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php artisan make:middleware SecurityHeaders
B. Edit app/Http/Middleware/SecurityHeaders.php
php
CopyEdit
namespace App\Http\Middleware;
use Closure;
use Illuminate\Http\Request;
use Symfony\Component\HttpFoundation\Response;
class SecurityHeaders
{
  public function handle(Request $request, Closure $next): Response
  {
    $response = $next($request);
    $response->headers->set('Referrer-Policy', 'no-referrer');
    $response->headers->set('Strict-Transport-Security', 'max-age=31536000; includeSubDomains');
    $response->headers->set('Content-Security-Policy', "default-src 'self'");
    $response->headers->set('X-Content-Type-Options', 'nosniff');
    $response->headers->set('X-Frame-Options', 'DENY');
    return $response;
  }
```

C. Tambahkan ke Middleware Global

Edit file app/Http/Kernel.php:

}

```
php
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protected $middleware = [
    // ...
    \App\Http\Middleware\SecurityHeaders::class,
];
```

2. Sembunyikan Informasi Server (Laravel + Docker + PHP)

A. Matikan Header PHP (Laravel on Nginx/Apache)

Jika Anda menggunakan **Apache** atau **Nginx** di Docker, tambahkan di konfigurasi php.ini:

ini

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expose_php = Off

Untuk Nginx atau Apache, pastikan juga header seperti ini diblokir:

- Server
- X-Powered-By

Contoh untuk nginx.conf:

```
nginx
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server {
...
add_header X-Powered-By "";
add_header Server "";
}
```

✓ 3. Revisi atau Batasi robots.txt

Pastikan tidak mengekspos direktori sensitif seperti /admin, /config, dsb.

Contoh robots.txt aman:

makefile

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User-agent: *

Disallow: /private/

Disallow: /admin/

Restart Laravel & Docker

Setelah semua konfigurasi dilakukan:

bash

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php artisan config:clear

php artisan optimize:clear

Jika menggunakan Docker, rebuild image:

bash

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docker-compose down

docker-compose up --build -d

Tambahan: Cek Ulang Security Headers

Setelah semuanya berjalan, pastikan header sudah muncul dengan tools seperti:

- https://securityheaders.com/
- curl -I https://yourdomain.com

Jika kamu menggunakan Cloudflare, pastikan juga:

- Tidak ada header yang ditimpa oleh Cloudflare.
- Tambahkan header yang sama melalui Cloudflare Rules (Transform Rules → Modify Response Header)
 jika ingin full di level CDN.