

Automated Security Scan Report

testasp.vulnweb.com · Basic Scan

CyberTestify Security Scan — Completed

Report No: **CT-ÖRNEK-0D8B**

Verification Code: **F1DE-4625**

This report is not a formal penetration test / certification.

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TARGET

testasp.vulnweb.com

PACKAGE

Basic Scan

REPORT NO

CT-ÖRNEK-0D8B

1. Executive Summary

OVERALL ASSESSMENT

High Risk

An urgent issue that can show visitors a direct security warning (e.g. certificate validity/hostname) was detected; it should be fixed with priority.

Management Decision

1 high/critical indicator(s) requiring priority attention were found; an urgent remediation plan is recommended. Medium/low items can be addressed via planned improvement.

- **Overall risk level: High** — the site does not support HTTPS; communication is carried unencrypted (plaintext) — it can be intercepted/modified. Migrating to HTTPS should be the priority.
- ⚠ This target did not respond over HTTPS (443); the scan was performed **over http://**. The lack of HTTPS is a finding on its own (below).
- 6/6 important security headers are missing: Content-Security-Policy, X-Frame-Options, X-Content-Type-Options, Strict-Transport-Security, Referrer-Policy, Permissions-Policy.
- **Scope:** The security-header and version-signature checks were run on **8 unique pages** including the home page (not just a single page).
- **Recommended first step:** Install a valid TLS certificate and move all traffic to HTTPS; ready-made step-by-step commands are provided in the "AI Solution Recommendations" add-on.

Scope and limits: This package is a **passive, GET-based** external observation; no active exploitation or probe was attempted. A "no finding" statement in an area **does NOT prove** it is secure, because no active test was performed — it only shows that the externally observed configuration is clean.

Improvement Priorities

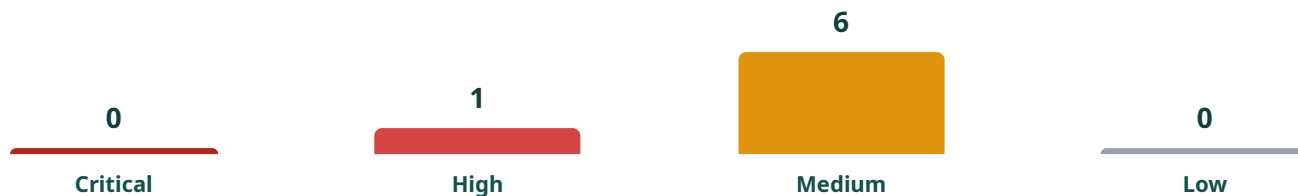
✂ **Most Urgent:** HTTPS not supported (unencrypted communication).

✂ **Quick Wins (~1-2 days):** Missing Content-Security-Policy; Missing X-Frame-Options (clickjacking); Missing X-Content-Type-Options; Missing HSTS; Missing Referrer-Policy.

📅 **Medium-term / Process:** Missing Permissions-Policy.

2. Findings

2.1 Vulnerability Distribution



A total of 7 finding indicators were detected; the severity distribution is below.

2.2 Master Findings Table

ID	Title	State	Severity
CT-1	HTTPS not supported (unencrypted communication)	Open	High
CT-2	Missing Content-Security-Policy	Open	Medium
CT-3	Missing X-Frame-Options (clickjacking)	Open	Medium
CT-4	Missing X-Content-Type-Options	Open	Medium
CT-5	Missing HSTS	Open	Medium
CT-6	Missing Referrer-Policy	Open	Medium
CT-7	Missing Permissions-Policy	Open	Medium

3 control areas were run — 1 came back clean, 2 produced a finding

✓ CHECKED — NO ISSUE FOUND

- **Server/software version signature (on 8 pages)** No issue found (no known old/EOL version signature detected)

⚠ FINDING PRESENT — DETAILED IN THE SECTIONS BELOW

- **HTTP security headers (on 8 pages)** Finding present (6/6 recommended headers missing — detailed above)
- **TLS / certificate** Finding present (HTTPS did not respond — unencrypted communication)

2.3 Detailed Findings

[MEDIUM] CT-2 · Missing Content-Security-Policy

State: Open

Description: No Content-Security-Policy; no browser-side XSS mitigation.

How it was detected: The browser cannot restrict which resources are loaded; there is no basic defence against XSS and content injection. Missing on ALL 8 scanned unique pages.

Business Impact: No browser-side mitigation against content injection/XSS; injected scripts can execute.

RECOMMENDED FIX

Define a strict CSP ('default-src 'self') and allowlist third-party sources.

Reference: CWE-693 · OWASP A05:2021 Security Misconfiguration

[MEDIUM] CT-3 · Missing X-Frame-Options (clickjacking)

State: Open

Description: The page can be framed by other sites (no X-Frame-Options / CSP frame-ancestors).

How it was detected: The page can be embedded in another site's iframe; users can be deceived via clickjacking. Missing on ALL 8 scanned unique pages.

Business Impact: The page can be framed invisibly to trick users into unintended actions (clickjacking), weakening account and transaction safety.

RECOMMENDED FIX

Add `X-Frame-Options: SAMEORIGIN` or CSP `frame-ancestors 'self'`.

Reference: CWE-1021 · OWASP A05:2021 Security Misconfiguration

[MEDIUM] CT-4 · Missing X-Content-Type-Options

State: Open

Description: No X-Content-Type-Options; browser may MIME-sniff.

How it was detected: The browser may guess the content type (MIME-sniffing); uploaded files could be executed as scripts. Missing on ALL 8 scanned unique pages.

Business Impact: The browser may sniff content types and execute malicious content, widening the XSS/injection surface.

RECOMMENDED FIX

Add `X-Content-Type-Options: nosniff`.

Reference: CWE-693 · OWASP A05:2021 Security Misconfiguration

[MEDIUM] CT-5 · Missing HSTS

State: Open

Description: No HSTS; browser not forced to HTTPS.

How it was detected: HTTPS is not enforced to the browser; on first requests there is an SSL-stripping/MITM risk. Missing on ALL 8 scanned unique pages.

Business Impact: Without forced HTTPS, traffic can be intercepted/redirected via man-in-the-middle.

RECOMMENDED FIX

Add `Strict-Transport-Security: max-age=31536000; includeSubDomains` (if fully HTTPS).

Reference: CWE-319 · OWASP A05:2021 Security Misconfiguration

[MEDIUM] CT-6 · Missing Referrer-Policy

State: Open

Description: No Referrer-Policy; full URL may leak to external links.

How it was detected: The full URL (Referer) is sent to external links; session/privacy information may leak. Missing on ALL 8 scanned unique pages.

Business Impact: Address/session info may leak to external links; low-impact information exposure.

RECOMMENDED FIX

Add `Referrer-Policy: strict-origin-when-cross-origin`.

Reference: CWE-200 · OWASP A05:2021 Security Misconfiguration

[MEDIUM] CT-7 · Missing Permissions-Policy

State: Open

Description: No Permissions-Policy header; browser feature access is unrestricted.

How it was detected: Sensitive APIs such as camera/microphone/location are not restricted; third-party content could abuse them. Missing on ALL 8 scanned unique pages.

Business Impact: No Permissions-Policy; browser feature access (camera/mic/geolocation) is unrestricted (informational hardening).

RECOMMENDED FIX

Add a `Permissions-Policy` disabling unused features (e.g. `geolocation=(), camera=(), microphone=()`).

Reference: CWE-693 · OWASP A05:2021 Security Misconfiguration

3. Controls & Methodology

HTTP SECURITY HEADERS

Header	Status	Description
Strict-Transport-Security	Missing	The browser is not told to enforce HTTPS; there is an SSL-stripping/MITM risk on first requests.
Content-Security-Policy	Missing	The browser cannot restrict which resources are loaded; there is no basic defence against XSS and content injection.
X-Frame-Options	Missing	The page can be embedded in another site's iframe; the user can be tricked via clickjacking.
X-Content-Type-Options	Missing	The browser may guess the content type (MIME-sniffing); uploaded files could run as scripts.
Referrer-Policy	Missing	The full URL (Referer) is sent to external links; session/privacy information can leak.
Permissions-Policy	Missing	Sensitive APIs such as camera/microphone/location are not restricted; third-party content could abuse them.
X-XSS-Protection	Missing	The legacy-browser XSS filter is not set (not critical in modern browsers; the real protection is the CSP).
Content-Type	Present	text/html

TLS CERTIFICATE STATUS

△ This target **did not respond over HTTPS (443)**; no valid TLS certificate was found. The site is live only over **unencrypted HTTP** (see Identified Risks → "HTTPS not supported"). The header checks below were performed over http://.

SERVER / TECHNOLOGY SIGNATURE

- Server: Microsoft-IIS/8.5
- X-Powered-By: [ASP.NET](#)

IDENTIFIED RISKS

Finding	Severity	Description
HTTPS not supported (unencrypted communication)	High	The site does not respond over HTTPS; all traffic to/from the page is carried unencrypted (plaintext) — an attacker on the same network can intercept the traffic, steal sessions/passwords or modify content. The scan was performed over http://.
Critical security header missing: Content-Security-Policy	Medium	The browser cannot restrict which resources are loaded; there is no basic defence against XSS and content injection. Missing on ALL 8 scanned unique pages.
Critical security header missing: X-Frame-Options	Medium	The page can be embedded in another site's iframe; users can be deceived via clickjacking. Missing on ALL 8 scanned unique pages.
Security header missing: X-Content-Type-Options	Medium	The browser may guess the content type (MIME-sniffing); uploaded files could be executed as scripts. Missing on ALL 8 scanned unique pages.
Security header missing: Strict-Transport-Security	Medium	HTTPS is not enforced to the browser; on first requests there is an SSL-stripping/MITM risk. Missing on ALL 8 scanned unique pages.
Security header missing: Referrer-Policy	Medium	The full URL (Referer) is sent to external links; session/privacy information may leak. Missing on ALL 8 scanned unique pages.
Security header missing: Permissions-Policy	Medium	Sensitive APIs such as camera/microphone/location are not restricted; third-party content could abuse them. Missing on ALL 8 scanned unique pages.

POSITIVE ASSURANCE — AREAS CHECKED

Including the areas that produced no finding, the Basic Scan checks were actually run on **8 unique pages** including the home page. The table below also shows the "no issue found" results transparently:

Control Area	Result
HTTP security headers (on 8 pages)	⚠ Finding present (6/6 recommended headers missing — detailed above)
TLS / certificate	⚠ Finding present (HTTPS did not respond — unencrypted communication)
Server/software version signature (on 8 pages)	✓ No issue found (no known old/EOL version signature detected)

Three-state distinction (honesty): ✓ *No issue found* = the check ran, came back clean · ⚠ *Finding present* = detailed above · ⚠ *Not assessable* = no data collected (does NOT mean secure).

What this package DOES and does NOT check

DOES (passive — page fetch via GET only, no probe/payload is sent): HTTP security headers, TLS/certificate status (validity · hostname · TLS version), server-software version signature and known old/EOL version detection — across the 8 discovered pages.

DOES NOT: CORS policy, cookie flag detail, Content-Security-Policy analysis, DNS/e-mail records (SPF/DKIM/DMARC) and exposed sensitive-file scanning are in the **External Surface** package; GDPR/PCI/ISO framework mapping is in the **Compliance** package; subdomain/API/CVE discovery is in the **Reconnaissance** package; active vulnerability verification

(SQLi/XSS/IDOR probing) is addressed in the **Active Verification** and **Full-Scope Pentest** packages. This report is based on passive observation; "no finding" **does NOT prove** it is secure, because no active exploitation was attempted.

Methodology

Stage	Description
Discovery	The external surface, pages and (for SPAs) real endpoints/params from the JS bundle are extracted.
Automated detection	Deterministic, safe (read-only) indicators are sought on the discovered surface.
Manual-deterministic verification	Findings are verified with code-based rules; "prove, don't exploit".
Authz & session	In the authenticated package, cookie/session/authorization and post-login surface are examined.
Configuration	Header, TLS, email/DNS and exposure configurations are observed.

Risk Rating Criteria

Severity	Definition
Critical	Directly/easily exploitable indicator with serious data/access impact.
High	Prominent, priority-to-fix strong indicator.
Medium	Requires attention; context-dependent verification recommended.
Low	Hardening/maturity opportunity; low priority.

Severity is a band label only (no numeric CVSS score); all findings are framed as "indicator, verification required".

4. AI Fix Suggestions

The recommendations below aim to fix the missing security headers detected on the testasp.vulnweb.com home page. For each header, a short explanation is given first, followed by an Nginx example; at the end you will find ready-made blocks for non-Nginx platforms (Firebase, Vercel, Next.js, Apache). Copy the one that fits your server.

1. Add Content-Security-Policy (CSP)

This is the most effective browser defence against XSS and content injection. Start with a basic policy suited to your site and tighten it over time:

```
add_header Content-Security-Policy "default-src 'self'; img-src 'self' data:; script-src 'self'; style-src 'self'";
```

If you use third-party scripts (GTM, Analytics, Pixel), add the relevant domains to `script-src` / `connect-src`.

2. Add X-Frame-Options

Prevents your page from being embedded in another site's iframe and exposed to clickjacking:

```
add_header X-Frame-Options "SAMEORIGIN" always;
```

As a modern alternative, CSP `frame-ancestors 'self'` provides the same protection.

3. Add X-Content-Type-Options

Prevents the browser from MIME-type sniffing and misinterpreting content (and the XSS risk it opens):


```
add_header X-Content-Type-Options "nosniff" always;
```

4. Add Strict-Transport-Security (HSTS)

Enforces HTTPS and makes SSL-stripping/MITM attacks harder. (Apply only if your site is fully HTTPS.)

```
add_header Strict-Transport-Security "max-age=31536000; includeSubDomains" always;
```

5. Add Referrer-Policy

Reduces information leakage in the `Referer` header sent to external links:

```
add_header Referrer-Policy "strict-origin-when-cross-origin" always;
```

6. Add Permissions-Policy

Restricts browser APIs (camera, microphone, location, etc.); prevents unwanted access by third-party iframes:

```
add_header Permissions-Policy "geolocation=(), microphone=(), camera=()" always;
```

7. X-XSS-Protection (defence in depth)

A historical header for old browsers; the real protection is in the CSP. You may add it optionally:

```
add_header X-XSS-Protection "1; mode=block" always;
```

Combined configuration — Nginx

Add it to your server block (server { ... }), validate with `nginx -t`, then reload with `systemctl reload nginx`:

```
add_header Content-Security-Policy "default-src 'self'; frame-ancestors 'self'" always;
add_header X-Frame-Options "SAMEORIGIN" always;
add_header X-Content-Type-Options "nosniff" always;
add_header Strict-Transport-Security "max-age=31536000; includeSubDomains" always;
add_header Referrer-Policy "strict-origin-when-cross-origin" always;
add_header Permissions-Policy "geolocation=(), microphone=(), camera=()" always;
```

Ready-made configuration for other platforms

If your server is not Nginx, you can add the same headers with the appropriate ready-made block below.

Firestore Hosting — `firebase.json`:

```
{
  "hosting": {
    "headers": [
      {
        "source": "**",
        "headers": [
          { "key": "Content-Security-Policy", "value": "default-src 'self'; frame-ancestors 'self'" },
          { "key": "X-Frame-Options", "value": "SAMEORIGIN" },
          { "key": "X-Content-Type-Options", "value": "nosniff" },
          { "key": "Strict-Transport-Security", "value": "max-age=31536000; includeSubDomains" },
          { "key": "Referrer-Policy", "value": "strict-origin-when-cross-origin" },
          { "key": "Permissions-Policy", "value": "geolocation=(), microphone=(), camera=()" }
        ]
      }
    ]
  }
}
```

```

    }
  ]
}
}

```

Vercel — `vercel.json` :

```

{
  "headers": [
    {
      "source": "/*.*",
      "headers": [
        { "key": "Content-Security-Policy", "value": "default-src 'self'; frame-ancestors 'self'" },
        { "key": "X-Frame-Options", "value": "SAMEORIGIN" },
        { "key": "X-Content-Type-Options", "value": "nosniff" },
        { "key": "Strict-Transport-Security", "value": "max-age=31536000; includeSubDomains" },
        { "key": "Referrer-Policy", "value": "strict-origin-when-cross-origin" },
        { "key": "Permissions-Policy", "value": "geolocation=(), microphone=(), camera=()" }
      ]
    }
  ]
}

```

Next.js — `next.config.js` :

```

module.exports = {
  async headers() {
    return [
      {
        source: '/*.*',
        headers: [
          { key: 'Content-Security-Policy', value: 'default-src 'self'; frame-ancestors 'self' },
          { key: 'X-Frame-Options', value: 'SAMEORIGIN' },
          { key: 'X-Content-Type-Options', value: 'nosniff' },
          { key: 'Strict-Transport-Security', value: 'max-age=31536000; includeSubDomains' },
          { key: 'Referrer-Policy', value: 'strict-origin-when-cross-origin' },
          { key: 'Permissions-Policy', value: 'geolocation=(), microphone=(), camera=()' }
        ],
      },
    ];
  },
};

```

Apache — `.htaccess` (`mod_headers`):

```

Header always set Content-Security-Policy "default-src 'self'; frame-ancestors 'self'"
Header always set X-Frame-Options "SAMEORIGIN"
Header always set X-Content-Type-Options "nosniff"
Header always set Strict-Transport-Security "max-age=31536000; includeSubDomains"
Header always set Referrer-Policy "strict-origin-when-cross-origin"
Header always set Permissions-Policy "geolocation=(), microphone=(), camera=()"

```

IIS / [ASP.NET](#) — `web.config` :

```

<configuration>
  <system.webServer>
    <httpProtocol>
      <customHeaders>
        <add name="Content-Security-Policy" value="default-src 'self'; frame-ancestors 'self'" />
        <add name="X-Frame-Options" value="SAMEORIGIN" />
        <add name="X-Content-Type-Options" value="nosniff" />
        <add name="Strict-Transport-Security" value="max-age=31536000; includeSubDomains" />
        <add name="Referrer-Policy" value="strict-origin-when-cross-origin" />
        <add name="Permissions-Policy" value="geolocation=(), microphone=(), camera=()" />
      </customHeaders>
    </httpProtocol>
  </system.webServer>
</configuration>

```

After the changes, verify the headers are added to the response using the browser developer tools (Network tab) or `curl -I https://testasp.vulnweb.com`.

5. Appendix — Glossary

SQL Injection	An injection flaw where user input reaches a database query.
XSS	Cross-Site Scripting — injection of malicious scripts into pages.
IDOR	Insecure Direct Object Reference — accessing others' records via ID manipulation.
TLS	Transport Layer Security.
HSTS	HTTP Strict Transport Security header.
CSP	Content Security Policy.
CORS	Cross-Origin Resource Sharing.
Clickjacking	Tricking clicks via invisible framing.