

Web Application Penetration Test Report (WAPT)

COMPLETED WITH FINDINGS

Company: Example Inc.

Audit-ready output focused on findings, evidence, and test coverage.

Job ID: 2ecbdf8

Company: Example Inc.

Test type: Black Box (Unauthenticated)

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Package: ISO 27001/2022 Evidence Pack

Recipient: john@example.com

Target: https://example.com

Executive Summary

Passive-first assessment aligned to OWASP testing categories (WSTG structure). OWASP Baseline provides passive DAST signals; controlled active probes include HTTP behavior, DNS posture, SQL injection heuristics, curated directory brute-force, and subdomain enumeration. Any stage execution error is reported as failed coverage (no fallback substitution).

Total Findings

11

Checks Executed

34

Coverage Completed

12

Coverage Degraded/Failed

0

Tests run: OWASP Quick Checks, Active HTTP Probes, Domain DNS Checks, HTTP Behavior Checks, Extended Exposure Checks, Session/Auth Checks, SQLi Probes, Directory Brute-Force, Subdomain Enumeration, TLS Posture Scan, OWASP Baseline

DevOps metric interpretation

Metric	How DevOps should read it
Total Findings	Prioritized remediation queue. Focus first on higher severity and internet-facing controls.
Checks Executed	Coverage breadth. Higher count means wider control validation across transport, headers, behavior, and exposure.
Coverage Completed	Pipeline stages that executed successfully; treat degraded/failed stages as assessment blind spots.
Severity Distribution	Capacity planning signal. Use to split fixes into immediate, sprint, and hardening backlog work.
Check Status Breakdown	`fail/warn` indicate action required; `info/pass` are context and validation baselines.

SEVERITY DISTRIBUTION

Severity	Count
HIGH	1
MEDIUM	4
LOW	6

CHECK STATUS BREAKDOWN

Status	Count
FAIL	1
WARN	10
INFO	8
PASS	15

Coverage and Scope

Metric	Value
Scope origin	https://example.com
URLs discovered	1
URLs tested active	1
Completed stages	Discovery, OWASP Quick Checks, Active HTTP Probes, Domain DNS Checks, HTTP Behavior Checks, Extended Exposure Checks, Session/Auth Checks, SQLi Probes, Directory Brute-Force, Subdomain Enumeration, TLS Posture Scan, OWASP Baseline
Degraded stages	None
Failed stages	None

Scope Constraints and Assumptions

Constraint	Value
Assessment mode	Unauthenticated
Scope mode	Domain scope
Target origin	https://example.com
Discovery depth	URLs discovered=1
Active probe breadth	URLs tested=1

No skipped/degraded/failed stage constraints were recorded for this run.

Executed Stages vs Outcome

Stage	Status	Checks
Discovery	COMPLETED	1
OWASP Quick Checks	COMPLETED	1
Active HTTP Probes	COMPLETED	1
Domain DNS Checks	COMPLETED	6
HTTP Behavior Checks	COMPLETED	6
Extended Exposure Checks	COMPLETED	2
Session/Auth Checks	COMPLETED	3
SQLi Probes	COMPLETED	1
Directory Brute-Force	COMPLETED	1
Subdomain Enumeration	COMPLETED	1
TLS Posture Scan	COMPLETED	1
OWASP Baseline	COMPLETED WITH FINDINGS	8

Findings

Target reachable over HTTP(S)

HIGH

OWASP: OWASP WSTG-INFO | Source: Baseline | Confidence: medium | Owner: Platform/App

OWASP reference: <https://owasp.org/www-project-web-security-testing-guide/stable/>

What this means

Target reachable over HTTP(S) returned status High.

Why this matters

This issue is rated High and may increase security risk if left unresolved.

What to change

Review the affected control ('Target reachable over HTTP(S)'), apply least-privilege/default-secure configuration, and deploy via infrastructure-as-code.

How to verify

Re-run the same scan check and confirm this finding is no longer reported. Reference: `HTTPSPool(host='example.com', port=443): Max retries exceeded with url: / (Caused by SSLError(SSLCertVerificationError(1, '[SSL: CERTIFICATE_VERIFY_FAILED] certificate ve.`

Technical reference

`HTTPSPool(host='example.com', port=443): Max retries exceeded with url: / (Caused by SSLError(SSLCertVerificationError(1, '[SSL: CERTIFICATE_VERIFY_FAILED] certificate verify failed: unable to get local issuer certificate (_ssl.c:1016))))`

CAA policy present

MEDIUM

OWASP: OWASP WSTG-INFO | Source: DNS Checks | Confidence: medium | Owner: Platform/SRE

OWASP reference: https://owasp.org/www-project-web-security-testing-guide/stable/4-Web_Application_Security_Testing/01-Information_Gathering/02-Fingerprint_Web_Server

What this means

Domain DNS posture indicates a configuration gap or weak control signal.

Why this matters

Misconfigured DNS can increase spoofing, issuance, and operational risk.

What to change

Harden DNS records (CAA, SPF, DMARC, DNSSEC where feasible) and remove unintended wildcard behavior.

How to verify

Query DNS records and confirm expected policy records and host resolution behavior.

Technical reference

No CAA record detected.

HTTP to HTTPS redirect behavior

MEDIUM

OWASP: OWASP A05 Security Misconfiguration | Source: HTTP Behavior | Confidence: medium | Owner: Platform/App

OWASP reference: [https://owasp.org/www-project-web-security-testing-guide/stable/4-](https://owasp.org/www-project-web-security-testing-guide/stable/4-Web_Application_Security_Testing/02-Configuration_and_Deployment_Management_Testing/06-Test_HTTP_Methods)

[Web_Application_Security_Testing/02-Configuration_and_Deployment_Management_Testing/06-Test_HTTP_Methods](https://owasp.org/www-project-web-security-testing-guide/stable/4-Web_Application_Security_Testing/02-Configuration_and_Deployment_Management_Testing/06-Test_HTTP_Methods)

What this means

HTTP to HTTPS redirect behavior returned status Medium.

Why this matters

This issue is rated Medium and may increase security risk if left unresolved.

What to change

Review the affected control (`HTTP to HTTPS redirect behavior`), apply least-privilege/default-secure configuration, and deploy via infrastructure-as-code.

How to verify

Re-run the same scan check and confirm this finding is no longer reported. Reference: status=200 location=none.

Technical reference

status=200 location=none

OWASP - Content Security Policy (CSP) Header Not Set

MEDIUM

OWASP: OWASP Baseline | Source: DAST | Confidence: 3 | Owner: App + Edge

OWASP reference: https://cheatsheetseries.owasp.org/cheatsheets/Content_Security_Policy_Cheat_Sheet.html

What this means

No Content Security Policy is enforced for script/resource loading.

Why this matters

XSS and third-party script abuse have a larger blast radius.

What to change

Define a restrictive `Content-Security-Policy` (`default-src 'self'`) and explicitly allow required sources.

How to verify

Run `curl -I <url>` and confirm `Content-Security-Policy` exists and matches approved domains.

Description

Content Security Policy (CSP) is an added layer of security that helps to detect and mitigate certain types of attacks, including Cross Site Scripting (XSS) and data injection a

Technical reference

riskcode=2; confidence=3; cwe=693; wasc=15; instances=3

OWASP - Missing Anti-clickjacking Header

MEDIUM

OWASP: OWASP Baseline | Source: DAST | Confidence: 2 | Owner: Platform/App

OWASP reference: <https://owasp.org/www-project-web-security-testing-guide/stable/>

What this means

The response does not protect against 'ClickJacking' attacks. It should include either Content-Security-Policy with 'frame-ancestors' directive or X-Frame-Options.

Why this matters

This issue is rated Medium and may increase security risk if left unresolved.

What to change

Review the affected control ('OWASP - Missing Anti-clickjacking Header'), apply least-privilege/default-secure configuration, and deploy via infrastructure-as-code.

How to verify

Re-run the same scan check and confirm this finding is no longer reported. Reference: riskcode=2; confidence=2; cwe=1021; wasc=15; instances=1.

Description

The response does not protect against 'ClickJacking' attacks. It should include either Content-Security-Policy with 'frame-ancestors' directive or X-Frame-Options.

Technical reference

riskcode=2; confidence=2; cwe=1021; wasc=15; instances=1

OWASP - Cross-Origin-Embedder-Policy Header Missing or Invalid

LOW

OWASP: OWASP Baseline | Source: DAST | Confidence: 2 | Owner: Edge/Ingress

OWASP reference: https://cheatsheetseries.owasp.org/cheatsheets/HTTP-Headers_Cheat_Sheet.html

What this means

COEP header is missing or not strict.

Why this matters

Cross-origin resource isolation is weaker, increasing browser-level attack surface in modern contexts.

What to change

Set 'Cross-Origin-Embedder-Policy: require-corp' where application compatibility allows.

How to verify

Run `curl -I <url>` and verify 'Cross-Origin-Embedder-Policy: require-corp' on HTML responses.

Description

Cross-Origin-Embedder-Policy header is a response header that prevents a document from loading any cross-origin resources that don't explicitly grant the document permission (us

Technical reference

riskcode=1; confidence=2; cwe=693; wasc=14; instances=1

OWASP - Cross-Origin-Opener-Policy Header Missing or Invalid

LOW

OWASP: OWASP Baseline | Source: DAST | Confidence: 2 | Owner: Edge/Ingress

OWASP reference: https://cheatsheetseries.owasp.org/cheatsheets/HTTP-Headers_Cheat_Sheet.html

What this means

COOP header is missing or not strict.

Why this matters

Browser context isolation is reduced, increasing risks around cross-window interactions.

What to change

Set `Cross-Origin-Opener-Policy: same-origin` on application pages unless a specific exception is required.

How to verify

Run `curl -I <url>` and verify `Cross-Origin-Opener-Policy: same-origin`.

Description

Cross-Origin-Opener-Policy header is a response header that allows a site to control if others included documents share the same browsing context. Sharing the same browsing context

Technical reference

riskcode=1; confidence=2; cwe=693; wasc=14; instances=1

OWASP - Cross-Origin-Resource-Policy Header Missing or Invalid

LOW

OWASP: OWASP Baseline | Source: DAST | Confidence: 2 | Owner: Edge/Ingress

OWASP reference: https://cheatsheetseries.owasp.org/cheatsheets/HTTP-Headers_Cheat_Sheet.html

What this means

CORP header is missing or too permissive.

Why this matters

Cross-origin resource sharing boundaries are less explicit, which can increase exposure.

What to change

Set `Cross-Origin-Resource-Policy` appropriately (often `same-origin` for sensitive resources).

How to verify

Run `curl -I <asset\_url>` and confirm `Cross-Origin-Resource-Policy` is present with expected value.

Description

Cross-Origin-Resource-Policy header is an opt-in header designed to counter side-channels attacks like Spectre. Resource should be specifically set as shareable amongst differen

Technical reference

riskcode=1; confidence=2; cwe=693; wasc=14; instances=1

OWASP - Permissions Policy Header Not Set

LOW

OWASP: OWASP Baseline | Source: DAST | Confidence: 2 | Owner: Edge/Ingress

OWASP reference: https://cheatsheetseries.owasp.org/cheatsheets/HTTP-Headers_Cheat_Sheet.html

What this means

Browser feature permissions are not explicitly restricted.

Why this matters

Unneeded browser capabilities may be available to application contexts.

What to change

Define 'Permissions-Policy' to deny unused features (camera, microphone, geolocation, etc.).

How to verify

Run `curl -I <url>` and confirm a restrictive 'Permissions-Policy' header is present.

Description

Permissions Policy Header is an added layer of security that helps to restrict from unauthorized access or usage of browser/client features by web resources. This policy ensures

Technical reference

riskcode=1; confidence=2; cwe=693; wasc=15; instances=3

OWASP - Strict-Transport-Security Header Not Set

LOW

OWASP: OWASP Baseline | Source: DAST | Confidence: 3 | Owner: Edge/Ingress

OWASP reference: https://cheatsheetseries.owasp.org/cheatsheets/HTTP-Headers_Cheat_Sheet.html

What this means

Strict HTTPS enforcement is not configured on one or more responses.

Why this matters

Browsers may allow insecure downgrade paths and weaken transport protection.

What to change

Set 'Strict-Transport-Security' on HTTPS responses with a long max-age and include subdomains when ready.

How to verify

Run `curl -I <url>` and confirm 'Strict-Transport-Security' is present on HTTPS responses.

Description

HTTP Strict Transport Security (HSTS) is a web security policy mechanism whereby a web server declares that complying user agents (such as a web browser) are to interact with it

Technical reference

riskcode=1; confidence=3; cwe=319; wasc=15; instances=3

OWASP - X-Content-Type-Options Header Missing

LOW

OWASP: OWASP Baseline | Source: DAST | Confidence: 2 | Owner: Edge/Ingress

OWASP reference: <https://cheatsheetseries.owasp.org/cheatsheets/HTTP-Headers-Cheat-Sheet.html>

What this means

MIME sniffing protection header is missing.

Why this matters

Browsers may interpret files as executable content when they should not.

What to change

Set 'X-Content-Type-Options: nosniff' for all responses.

How to verify

Run `curl -I <url>` and verify `X-Content-Type-Options: nosniff`.

Description

The Anti-MIME-Sniffing header X-Content-Type-Options was not set to 'nosniff'. This allows older versions of Internet Explorer and Chrome to perform MIME-sniffing on the respons

Technical reference

riskcode=1; confidence=2; cwe=693; wasc=15; instances=1

OWASP CATEGORY COUNTS

Category	Count
OWASP A05 Security Misconfiguration	1
OWASP Baseline	8
OWASP WSTG-INFO	2

OWASP BASELINE RISKCODE COUNTS

Riskcode	Count
2	2
1	6
0	3

Top OWASP Baseline Alerts

Title	Severity	Confidence
OWASP - Content Security Policy (CSP) Header Not Set	MEDIUM	3
OWASP - Missing Anti-clickjacking Header	MEDIUM	2
OWASP - Cross-Origin-Embedder-Policy Header Missing or Invalid	LOW	2
OWASP - Cross-Origin-Opener-Policy Header Missing or Invalid	LOW	2
OWASP - Cross-Origin-Resource-Policy Header Missing or Invalid	LOW	2
OWASP - Permissions Policy Header Not Set	LOW	2
OWASP - Strict-Transport-Security Header Not Set	LOW	3
OWASP - X-Content-Type-Options Header Missing	LOW	2

No Findings by Test Area

Test Area	Checks With No Findings	Example Checks
Active Probes	2	Reflected input probe, Method exposure probe
Exposure Checks	3	Extended sensitive path exposure check, JavaScript endpoint hint extraction, Directory and file brute-force probe
Injection Checks	1	SQL injection error-based probe
Session/Auth Checks	3	Session cookie attribute posture, Session fixation indicator check, Logout invalidation signal

Detailed Tests

Title	Source	Status	Rating	OWASP	Summary	Owner
Target reachable over HTTP(S)	Baseline	FAIL	HIGH	OWASP WSTG-INFO	HTTPSConnectionPool(host='example.com', port=443): Max retries exceeded with url: / (Caused by SSLError(SSLCertVerificationError(1, '[SSL: CERTIFICATE_VERIFY_FAILED] certificate ve	Platform/App
Reflected input probe	Active Probes	INFO	LOW	OWASP A03 Injection	url=https://example.com error=HTTPSConnectionPool(host='example.com', port=443): Max retries exceeded with url: /? auditproof_probe=a3dbffe028fc9f29 (Caused by SSLError(SSLCertVerif	Platform/App
Method exposure probe	Active Probes	INFO	LOW	OWASP A05 Security Misconfiguration	url=https://example.com error=HTTPSConnectionPool(host='example.com', port=443): Max retries exceeded with url: / (Caused by SSLError(SSLCertVerificationError(1, '[SSL: CERTIFICATE	App/API + Edge
DNS record posture	DNS Checks	PASS	LOW	OWASP WSTG-INFO	A=2, AAAA=2, CNAME=0, MX=1, NS=2, TXT=2	Platform/SRE
CAA policy present	DNS Checks	WARN	MEDIUM	OWASP WSTG-INFO	No CAA record detected.	Platform/SRE
DNSSEC signal check	DNS Checks	PASS	LOW	OWASP WSTG-INFO	DNSKEY records detected: 4	Platform/SRE
SPF policy signal	DNS Checks	PASS	LOW	OWASP WSTG-INFO	SPF detected.	Platform/SRE
DMARC policy signal	DNS Checks	PASS	LOW	OWASP WSTG-INFO	DMARC detected.	Platform/SRE
Wildcard DNS behavior	DNS Checks	PASS	LOW	OWASP WSTG-INFO	whlmxvhfmwgxkm.example.com did not resolve	Platform/SRE
HTTP to HTTPS redirect behavior	HTTP Behavior	WARN	MEDIUM	OWASP A05 Security Misconfiguration	status=200 location=none	Platform/App
Canonical host consistency	HTTP Behavior	INFO	LOW	OWASP A05 Security Misconfiguration	HTTPSConnectionPool(host='www.example.com', port=443): Max retries exceeded with url: / (Caused by SSLError(SSLCertVerificationError(1, '[SSL: CERTIFICATE_VERIFY_FAILED] certificat	Platform/App
Host header reflection probe	HTTP Behavior	INFO	LOW	OWASP A01 Broken Access Control	HTTPSConnectionPool(host='example.com', port=443): Max retries exceeded with url: / (Caused by SSLError(SSLCertVerificationError(1, '[SSL: CERTIFICATE_VERIFY_FAILED] certificate ve	App/API + Edge
Open redirect probe on common parameters	HTTP Behavior	PASS	LOW	OWASP A01 Broken Access Control	No obvious redirect to external control domain observed.	App/API + Edge
		PASS	LOW			

Title	Source	Status	Rating	OWASP	Summary	Owner
HTTP verb matrix probe	HTTP Behavior			OWASP A05 Security Misconfiguration	No unexpected verb acceptance observed.	App/API + Edge
Error handling leakage probe	HTTP Behavior	INFO	LOW	OWASP A05 Security Misconfiguration	HTTPSPool(host='example.com', port=443): Max retries exceeded with url: /auditproof-does-not-exist-nke87ee3kw (Caused by SSLError(SSLCertVerificationError(1, '[SSL: CERTI	Platform/App
Extended sensitive path exposure check	Exposure Checks	PASS	LOW	OWASP A05 Security Misconfiguration	No strong exposure signature from extended path list.	Platform + Edge
JavaScript endpoint hint extraction	Exposure Checks	PASS	LOW	OWASP WSTG-INFO	No endpoint hints found across 0 JS files.	App/API
Session cookie attribute posture	Session/Auth Checks	INFO	LOW	OWASP A07 Identification and Authentication Failures	No Set-Cookie observed on landing flow.	App/API
Session fixation indicator check	Session/Auth Checks	INFO	LOW	OWASP A07 Identification and Authentication Failures	Auth login URL not configured; fixation probe skipped.	App/API
Logout invalidation signal	Session/Auth Checks	INFO	LOW	OWASP A07 Identification and Authentication Failures	No authenticated cookie artifact available; logout invalidation probe skipped.	App/API
SQL injection error-based probe	Injection Checks	PASS	LOW	OWASP A03 Injection	probes_run=5; no SQL error signatures observed.	App/API
Directory and file brute-force probe	Exposure Checks	PASS	LOW	OWASP A05 Security Misconfiguration	No high-signal path hits from curated wordlist.	Platform + App
Subdomain enumeration check	DNS Checks	PASS	LOW	OWASP WSTG-INFO	base_domain=example.com; no candidate subdomains resolved.	Platform/SRE
OWASP - Content Security Policy (CSP) Header Not Set	DAST	WARN	MEDIUM	OWASP Baseline	riskcode=2; confidence=3; cwe=693; wasc=15; instances=3;desc=Content Security Policy (CSP) is an added layer of security that helps to detect and mitigate certain types of attacks,	App + Edge
OWASP - Missing Anti-clickjacking Header	DAST	WARN	MEDIUM	OWASP Baseline	riskcode=2; confidence=2; cwe=1021; wasc=15; instances=1;desc=The response does not protect against 'Clickjacking' attacks. It should include either Content-Security-Policy with 'f	Platform/App
OWASP - Cross-Origin-Embedder-Policy Header Missing or Invalid	DAST	WARN	LOW	OWASP Baseline	riskcode=1; confidence=2; cwe=693; wasc=14; instances=1;desc=Cross-Origin-Embedder-Policy header is a response header that prevents a document from loading any cross-origin resourc	Edge/Ingress
OWASP - Cross-Origin-Opener-	DAST	WARN	LOW	OWASP Baseline	riskcode=1; confidence=2; cwe=693; wasc=14; instances=1;desc=Cross-	Edge/Ingress

Title	Source	Status	Rating	OWASP	Summary	Owner
Policy Header Missing or Invalid					Origin-Opener-Policy header is a response header that allows a site to control if others included documents share	
OWASP - Cross-Origin-Resource-Policy Header Missing or Invalid	DAST	WARN	LOW	OWASP Baseline	riskcode=1; confidence=2; cwe=693; wasc=14; instances=1;desc=Cross-Origin-Resource-Policy header is an optional header designed to counter side-channels attacks like Spectre. Resourc	Edge/Ingress
OWASP - Permissions Policy Header Not Set	DAST	WARN	LOW	OWASP Baseline	riskcode=1; confidence=2; cwe=693; wasc=15; instances=3;desc=Permissions Policy Header is an added layer of security that helps to restrict from unauthorized access or usage of bro	Edge/Ingress
OWASP - Strict-Transport-Security Header Not Set	DAST	WARN	LOW	OWASP Baseline	riskcode=1; confidence=3; cwe=319; wasc=15; instances=3;desc=HTTP Strict Transport Security (HSTS) is a web security policy mechanism whereby a web server declares that complying u	Edge/Ingress
OWASP - X-Content-Type-Options Header Missing	DAST	WARN	LOW	OWASP Baseline	riskcode=1; confidence=2; cwe=693; wasc=15; instances=1;desc=The Anti-MIME-Sniffing header X-Content-Type-Options was not set to 'nosniff'. This allows older versions of Internet E	Edge/Ingress
OWASP - Re-examine Cache-control Directives	DAST	PASS	LOW	OWASP Baseline	riskcode=0; confidence=1; cwe=525; wasc=13; instances=1;desc=The cache-control header has not been set properly or is missing, allowing the browser and proxies to cache content. Fo	App/API + Edge
OWASP - Retrieved from Cache	DAST	PASS	LOW	OWASP Baseline	riskcode=0; confidence=2; cwe=525; wasc=-1; instances=3;desc=The content was retrieved from a shared cache. If the response data is sensitive, personal or user-specific, this may r	Platform/App
OWASP - Storable and Cacheable Content	DAST	PASS	LOW	OWASP Baseline	riskcode=0; confidence=2; cwe=524; wasc=13; instances=3;desc=The response contents are storable by caching components such as proxy servers, and may be retrieved directly from the	App/API + Edge