



Scan information



Target  
dvwa



Scan Type  
API Scan

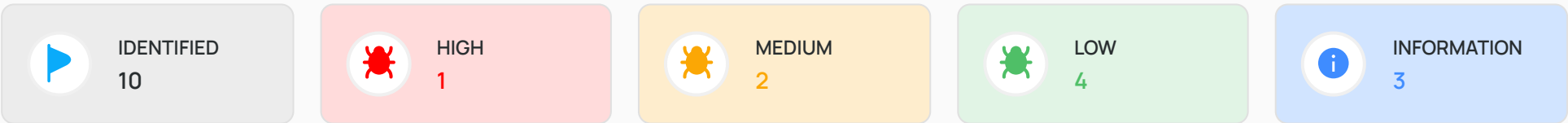


Scan Status  
Completed

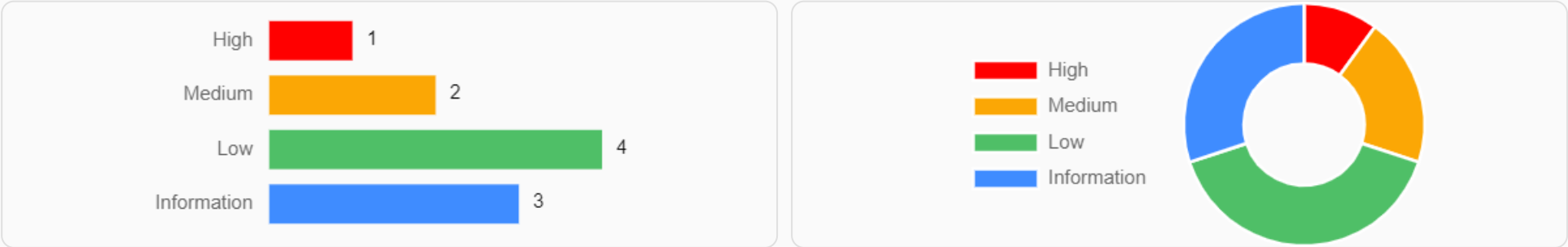


Report Type  
Standard

Identified Vulnerabilities



Vulnerability Analysis



# Vulnerability Findings

No	VULNERABILITY	RISK	SEVERITY	OCCURRENCES
1	<u>Insecure communication detected</u>	High	High	1
2	<u>Sensitive information disclosure in response headers - x-powered-by.</u>	Medium	Medium	1
3	<u>Sensitive information disclosure in response headers - server</u>	Medium	Medium	1
4	<u>Missing security headers - X-Frame-Options</u>	Low	Low	1
5	<u>Missing security headers - X-Content-Type-Options</u>	Low	Low	1
6	<u>Missing Content Security Policy in response header</u>	Low	Low	1
7	<u>HTTP trace support detected</u>	Low	Low	1
8	<u>Missing security headers - X-XSS-Protection</u>	Information	Information	1
9	<u>Missing header - Permissions-Policy</u>	Information	Information	1
10	<u>Missing header - Expect-CT</u>	Information	Information	1

# Findings: 1 Insecure communication detected



RISK  
High



SEVERITY  
High



CVSSv3 SCORE  
7.5



OCCURRENCES  
1

**Description**  
Vooki has detected an insecure communication vulnerability in the URL <http://localhost/dvwa/login.php>.When a client and server interact through an insecure (unencrypted) link, insecure communications occur. The developer cannot ensure the confidentiality and integrity of the data unless the channel is encrypted.

**Remediation**  
Ensure that every client-server connection is secured using an SSL certificate that is authentic and has the appropriate encryption.

**Classification:** OWASP 2021: A5, OWASP 2017: A6, OWASP API 2019: API7, PCI-DSS: 3.2.1-6.5.4, CWE: 319  
**CVSS Vector:** CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N

**Url:** <http://localhost/dvwa/login.php>  
**Occurrences in this Url:** 1

Request	Response
Method: GET Content-Type: application/json	date: Tue, 26 Sep 2023 12:25:12 GMT server: Apache/2.4.54 (Win64) OpenSSL/1.1.1p PHP/7.4.30 x-powered-by: PHP/7.4.30 set-cookie: PHPSESSID=2j7360n2a793pbavi93kka2da9; path=/,PHPSESSID=2j7360n2a793pbavi93kka2da9; path=/; HttpOnly;security=impossible; HttpOnly expires: Tue, 23 Jun 2009 12:00:00 GMT cache-control: no-cache, must-revalidate pragma: no-cache content-length: 1415 keep-alive: timeout=5, max=100 connection: Keep-Alive content-type: text/html;charset=utf-8 status code: 200

# Findings: 2 Sensitive information disclosure in response headers - x-powered-by

 RISK  
Medium

 SEVERITY  
Medium

 CVSSv3 SCORE  
5.3

 OCCURRENCES  
1

**Description**  
Vooki has detected the 'x-powered-by' header from the response header of the URL <http://localhost/dvwa/login.php>. This discloses sensitive information. It might be useful for information gathering by unauthorized or 3rd party users with hacking prowess.

**Remediation**  
Remove the 'x-powered-by' header from the server response. Ensure that your web server does not send out response headers or background information that reveals technical details about the back-end technology type, version, or setup.

**Classification:** OWASP 2021: A5, OWASP 2017: A6, OWASP API 2019: API7, PCI-DSS: 3.2.1-6.5, CWE: 212  
**CVSS Vector:** CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

**Url:** <http://localhost/dvwa/login.php>  
**Occurrences in this Url:** 1

Request	Response
Method: GET Content-Type: application/json	date: Tue, 26 Sep 2023 12:25:13 GMT server: Apache/2.4.54 (Win64) OpenSSL/1.1.1p PHP/7.4.30 x-powered-by: PHP/7.4.30 set-cookie: PHPSESSID=n5nnpn79mg2qi0fvdde9cnao6u4; path=/,PHPSESSID=n5nnpn79mg2qi0fvdde9cnao6u4; path=/; HttpOnly,security=impossible; HttpOnly expires: Tue, 23 Jun 2009 12:00:00 GMT cache-control: no-cache, must-revalidate pragma: no-cache content-length: 1415 keep-alive: timeout=5, max=97 connection: Keep-Alive content-type: text/html;charset=utf-8 status code: 200

# Findings: 3 Sensitive information disclosure in response headers - server

 RISK  
Medium

 SEVERITY  
Medium

 CVSSv3 SCORE  
5.3

 OCCURRENCES  
1

**Description**  
Vooki has detected the 'server' header from the response header of the URL <http://localhost/dvwa/login.php>. This discloses sensitive information. It might be useful for information gathering by unauthorized or 3rd party users with hacking prowess.

**Remediation**  
Remove the 'server' header from the server response. Ensure that your web server does not send out response headers or background information that reveals technical details about the back-end technology type, version, or setup.

**Classification:** OWASP 2021: A5, OWASP 2017: A6, OWASP API 2019: API7, PCI-DSS: 3.2.1-6.5, CWE: 212  
**CVSS Vector:** CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N

**Url:** <http://localhost/dvwa/login.php>  
**Occurrences in this Url:** 1

Request	Response
Method: GET Content-Type: application/json	date: Tue, 26 Sep 2023 12:25:13 GMT server: Apache/2.4.54 (Win64) OpenSSL/1.1.1p PHP/7.4.30 x-powered-by: PHP/7.4.30 set-cookie: PHPSESSID=n5nnpn79mg2qi0fvdde9cnao6u4; path=/,PHPSESSID=n5nnpn79mg2qi0fvdde9cnao6u4; path=/; HttpOnly;security=impossible; HttpOnly expires: Tue, 23 Jun 2009 12:00:00 GMT cache-control: no-cache, must-revalidate pragma: no-cache content-length: 1415 keep-alive: timeout=5, max=97 connection: Keep-Alive content-type: text/html;charset=utf-8 status code: 200

# Findings: 4 Missing security headers - X-Frame-Options

 RISK  
Low

 SEVERITY  
Low

 CVSSv3 SCORE  
3.1

 OCCURRENCES  
1

**Description**  
Vooki found out that the URL <http://localhost/dvwa/login.php> is missing the X-Frame-Options security header. Your application can use certain HTTP response headers to make it more secure. Once these HTTP response headers are set, they can stop modern browsers from encountering easily avoidable vulnerabilities.

X-Frame-Options: The 'X-Frame-Options' HTTP response header can be used to indicate whether browsers should be allowed to render a page in a <frame>, <iframe>, <embed>, or <object>.

Values of 'X-Frame-Options' header:  
X-Frame-Options: DENY  
X-Frame-Options: SAMEORIGIN

DENY: If 'X-Frame-Options: DENY' is specified, the page cannot be displayed in a frame, regardless of the site attempting to do so.  
SAMEORIGIN: If 'X-Frame-Options: SAMEORIGIN' is specified, the page can only be displayed in a frame on the same origin as the page itself.

**Remediation**  
It is advised to use the 'X-Frame-Options' security header with the value 'deny' or'sameorigin'.  
**Reference**  
<https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options>  
[https://www.owasp.org/index.php/OWASP\\_Secure-Headers\\_Project#xcto](https://www.owasp.org/index.php/OWASP_Secure-Headers_Project#xcto)

Classification:	OWASP 2021: A5, OWASP 2017: A6, OWASP API 2019: API7, PCI-DSS: 3.2.1-6.5, CWE: 693
CVSS Vector:	AV:N/AC:H/Au:N/C:P/I:N/A:N
Url:	<a href="http://localhost/dvwa/login.php">http://localhost/dvwa/login.php</a>
Occurrences in this Url:	1

Request	Response
Method: GET Content-Type: application/json	date: Tue, 26 Sep 2023 12:25:13 GMT server: Apache/2.4.54 (Win64) OpenSSL/1.1.1p PHP/7.4.30 x-powered-by: PHP/7.4.30 set-cookie: PHPSESSID=kalcp46anlg1ts8s1jtubbr0l3; path=/,PHPSESSID=kalcp46anlg1ts8s1jtubbr0l3; path=/; HttpOnly;security=impossible; HttpOnly expires: Tue, 23 Jun 2009 12:00:00 GMT cache-control: no-cache, must-revalidate pragma: no-cache content-length: 1415 keep-alive: timeout=5, max=96 connection: Keep-Alive content-type: text/html;charset=utf-8 status code: 200

# Findings: 5 Missing security headers - X-Content-Type-Options



RISK  
Low



SEVERITY  
Low



CVSSv3 SCORE  
3.1



OCCURRENCES  
1

**Description**  
Vooki found out that the URL `http://localhost/dvwa/login.php` is missing the X-Content-Type-Options security header. Your application can use certain HTTP response headers to make it more secure. Once these HTTP response headers are set, they can stop modern browsers from encountering easily avoidable vulnerabilities.

The X-Content-Type-Options response header is used by the server to signal that the MIME types indicated in the Content-Type headers should be followed and not modified. The header prevents MIME type snooping by stating that the MIME types are purposefully defined. The header can contain two values: nosniff and none.

**Example: X-Content-Type-Options: nosniff**  
If 'X-Content-Type-Options: nosniff' is specified in the response header, the browser checks the content type and blocks the request if the content type is mismatched.

**Remediation**  
It is advised to use the 'X-Content-Type-Options' security header with the value nosniff.

**Reference**  
<https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Content-Type-Options>  
[https://www.owasp.org/index.php/OWASP\\_Secure-Headers\\_Project#xcto](https://www.owasp.org/index.php/OWASP_Secure-Headers_Project#xcto)

**Classification:** OWASP 2021: A5, OWASP 2017: A6, OWASP API 2019: API7, PCI-DSS: 3.2.1-6.5, CWE: 693  
**CVSS Vector:** AV:N/AC:H/Au:N/C:P/I:N/A:N

**Url:** <http://localhost/dvwa/login.php>  
**Occurrences in this Url:** 1

Request	Response
Method: GET Content-Type: application/json	date: Tue, 26 Sep 2023 12:25:13 GMT server: Apache/2.4.54 (Win64) OpenSSL/1.1.1p PHP/7.4.30 x-powered-by: PHP/7.4.30 set-cookie: PHPSESSID=kalcp46anlg1ts8s1jtubbr0I3; path=/,PHPSESSID=kalcp46anlg1ts8s1jtubbr0I3; path=/ HttpOnly,security=impossible; HttpOnly expires: Tue, 23 Jun 2009 12:00:00 GMT cache-control: no-cache, must-revalidate pragma: no-cache content-length: 1415 keep-alive: timeout=5, max=96 connection: Keep-Alive content-type: text/html;charset=utf-8 status code: 200

# Findings: 6 Missing Content Security Policy in response header

 RISK  
Low

 SEVERITY  
Low

 CVSSv3 SCORE  
3.1

 OCCURRENCES  
1

**Description**  
Vooki found out that the URL `http://localhost/dvwa/login.php` is missing the Content Security Policy header. Your application can use certain HTTP response headers to make it more secure. Once these HTTP response headers are set, they can stop modern browsers from encountering easily avoidable vulnerabilities. It's an extra layer of protection that aids in the detection and mitigation of data injection and Cross Site Scripting (XSS) vulnerabilities.

**Remediation**  
It's recommended to include the Content Security Policy (CSP) header in the HTTP response.

**Reference**  
<https://developer.mozilla.org/en-US/docs/Web/HTTP/CSP>  
[https://cheatsheetseries.owasp.org/cheatsheets/Content\\_Security\\_Policy\\_Cheat\\_Sheet.html](https://cheatsheetseries.owasp.org/cheatsheets/Content_Security_Policy_Cheat_Sheet.html)

**Classification:** OWASP 2021: A5, OWASP 2017: A6, OWASP API 2019: API7, PCI-DSS: 3.2.1-6.5, CWE: 693  
**CVSS Vector:** AV:N/AC:H/PR:N/UI:R/S:U/C:L/I:N/A:N

**Url:** <http://localhost/dvwa/login.php>  
**Occurrences in this Url:** 1

Request	Response
Method: GET Content-Type: application/json	date: Tue, 26 Sep 2023 12:25:12 GMT server: Apache/2.4.54 (Win64) OpenSSL/1.1.1p PHP/7.4.30 x-powered-by: PHP/7.4.30 set-cookie: PHPSESSID=2j7360n2a793pbavi93kka2da9; path=/,PHPSESSID=2j7360n2a793pbavi93kka2da9; path=/; HttpOnly,security=impossible; HttpOnly expires: Tue, 23 Jun 2009 12:00:00 GMT cache-control: no-cache, must-revalidate pragma: no-cache content-length: 1415 keep-alive: timeout=5, max=100 connection: Keep-Alive content-type: text/html;charset=utf-8



# Findings: 7 HTTP trace support detected



RISK

Low



SEVERITY

Low



CVSSv3 SCORE

3.1



OCCURRENCES

1

**Description**

Vooki has detected that the HTTP TRACE method has been enabled in the application's URL <http://localhost/dvwa/login.php>. TRACE method allows the client to see what's being received at the other end of the request chain. This technique is intended for diagnostic use. However, Cross-Site Tracing (XST) may result from this.

**Remediation**

It is preferable to disable the TRACE technique unless absolutely essential even though it is not a susceptible action.

Classification:

OWASP 2021: A5, OWASP 2017: A6, OWASP API 2019: API7, PCI-DSS: 3.2.1-6.5, CWE: 670

CVSS Vector:

AV:N/AC:H/PR:N/UI:R/S:U/C:L/I:N/A:N

Url:

<http://localhost/dvwa/login.php>

Occurrences in this Url:

1

Request	Response
<div>Method: TRACE</div> <div>Content-Type: application/json</div>	<div>date: Tue, 26 Sep 2023 12:25:13 GMT</div> <div>server: Apache/2.4.54 (Win64) OpenSSL/1.1.1p PHP/7.4.30</div> <div>keep-alive: timeout=5, max=88</div> <div>connection: Keep-Alive</div> <div>transfer-encoding: chunked</div> <div>content-type: message/http</div> <div>status code: 200</div>

# Findings: 8 Missing security headers - X-XSS-Protection



RISK  
Information



SEVERITY  
Information



CVSSv3 SCORE  
NA



OCCURRENCES  
1

**Description**  
Vooki found out that the URL <http://localhost/dvwa/login.php> is missing the X-XSS-Protection security header. Your application can use certain HTTP response headers to make it more secure. Once these HTTP response headers are set, they can stop modern browsers from encountering easily avoidable vulnerabilities.

X-XSS-Protection: The X-XSS-Protection is a HTTP header that is designed to enable the cross-site scripting (XSS) filter built into modern web browsers. It stops pages from loading when they detect reflected cross-site scripting (XSS) attacks.

For example:  
X-XSS-Protection: 1  
X-XSS-Protection: 1; mode=block  
X-XSS-Protection: 1;report= <reporting-URL >

**Remediation**  
It's highly recommended to properly implement the 'X-XSS-Protection' security header.

**Reference**  
<https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-XSS-Protection>  
[https://www.owasp.org/index.php/OWASP\\_Secure-Headers\\_Project#xcto](https://www.owasp.org/index.php/OWASP_Secure-Headers_Project#xcto)

Classification: NA

CVSS Vector: NA

Url: <http://localhost/dvwa/login.php>

Occurrences in this Url: 1

Request	Response
Method: GET Content-Type: application/json	date: Tue, 26 Sep 2023 12:25:13 GMT server: Apache/2.4.54 (Win64) OpenSSL/1.1.1p PHP/7.4.30 x-powered-by: PHP/7.4.30 set-cookie: PHPSESSID=kalcp46anlg1ts8s1jtubbr0I3; path=/,PHPSESSID=kalcp46anlg1ts8s1jtubbr0I3; path=/; HttpOnly,security=impossible; HttpOnly expires: Tue, 23 Jun 2009 12:00:00 GMT cache-control: no-cache, must-revalidate pragma: no-cache content-length: 1415 keep-alive: timeout=5, max=96 connection: Keep-Alive content-type: text/html;charset=utf-8 status code: 200

# Findings: 9 Missing header - Permissions-Policy



RISK  
Information



SEVERITY  
Information



CVSSv3 SCORE  
NA



OCCURRENCES  
1

**Description**  
Vooki has detected that the permission policy isn't implemented in this application. This specification defines a mechanism that allows developers to selectively enable and disable the use of various browser features and API's.

**Remediation**  
It is suggested that a permission policy security header be used.

**Reference**  
<https://www.w3.org/TR/permissions-policy-1/> <https://www.permissionspolicy.com/>

Classification: NA

CVSS Vector: NA

Url: <http://localhost/dvwa/login.php>

Occurrences in this Url: 1

Request	Response
Method: GET Content-Type: application/json	date: Tue, 26 Sep 2023 12:25:13 GMT server: Apache/2.4.54 (Win64) OpenSSL/1.1.1p PHP/7.4.30 x-powered-by: PHP/7.4.30 set-cookie: PHPSESSID=kalc46anlg1ts8s1jtubbr0l3; path=/,PHPSESSID=kalc46anlg1ts8s1jtubbr0l3; path=/ HttpOnly,security=impossible; HttpOnly expires: Tue, 23 Jun 2009 12:00:00 GMT cache-control: no-cache, must-revalidate pragma: no-cache content-length: 1415 keep-alive: timeout=5, max=96 connection: Keep-Alive content-type: text/html;charset=utf-8 status code: 200

# Findings: 10 Missing header - Expect-CT



RISK

Information



SEVERITY

Information



CVSSv3 SCORE

NA



OCCURRENCES

1

**Description**  
Vooki has detected that the Expect-CT header is missing. The Expect-CT header lets sites opt in to reporting and enforcing Certificate Transparency requirements in order to prevent the use of unissued certificates for that site from going unnoticed.

**Remediation**  
It is suggested that the Expect-CT security header be used. The Expect-CT header is not necessary if your certificate supports Signed Certificate Timestamp by default.

**Reference**  
<https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Expect-CT>

Classification:	NA
CVSS Vector:	NA
Url:	<a href="http://localhost/dvwa/login.php">http://localhost/dvwa/login.php</a>
Occurrences in this Url:	1

Request	Response
Method: GET Content-Type: application/json	date: Tue, 26 Sep 2023 12:25:13 GMT server: Apache/2.4.54 (Win64) OpenSSL/1.1.1p PHP/7.4.30 x-powered-by: PHP/7.4.30 set-cookie: PHPSESSID=kalc46anlg1ts8s1jtubbr0I3; path=/,PHPSESSID=kalc46anlg1ts8s1jtubbr0I3; path=/ HttpOnly;security=impossible; HttpOnly expires: Tue, 23 Jun 2009 12:00:00 GMT cache-control: no-cache, must-revalidate pragma: no-cache content-length: 1415 keep-alive: timeout=5, max=96 connection: Keep-Alive content-type: text/html;charset=utf-8 status code: 200