PRAKTIKUM KEAMANAN INFORMASI 1 PERTEMUAN 10

Web XSS INJECTION



Disusun oleh

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PROGRAM STUDI D-IV TEKNOLOGI REKAYASA INTERNET DEPARTEMEN TEKNIK ELEKTRO DAN INFORMATIKA SEKOLAH VOKASI UNIVERSITAS GADJAH MADA 2023

Link: https://github.com/RIVAMAHYULi/Lap10_PrakKI_RivaMahyuli_478709.git

Modul 1 (Cross Site Scripting Injection)

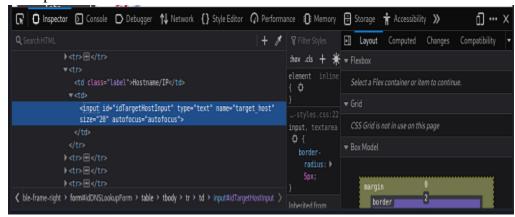
Langkah Kerja

Langkah 1: Login ke KaliLinux dengan IP yang telah disediakan.

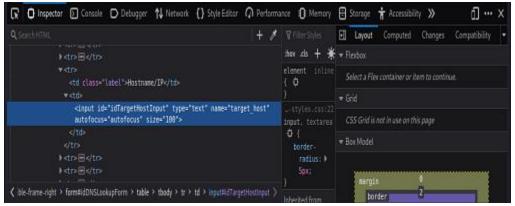
Langkah 2: Reflected Cross Site Scripting (XSS) Injection #1 - Popup Window

a. DNS Lookup - Instructions: OWASP Top 10 --> A2 - Cross Site Scripting (XSS) --> Reflected (First Order) --> DNS Lookup

b. Inspect Textbox Element Instruksi Klik kanan Hostname/IP Textbox Klik Inspect Element



c. Ubah ukuran Text Box - Instruksi Pada string "size=", ubah 20 ke 100. Click Close Button



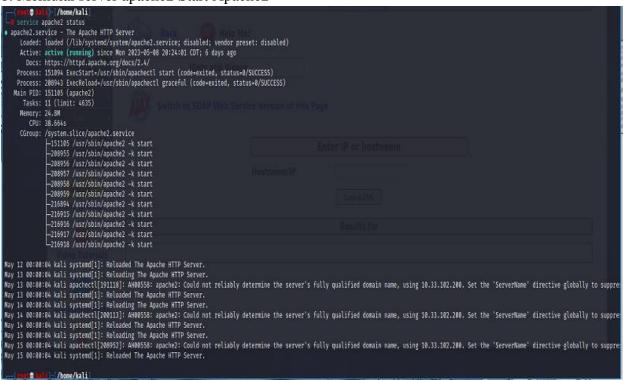
d. Uji Injeksi (XSS) - instruksi: Di Hostname/IP Textbox tempatkan string berikut: Klik Tombol Pencarian DNS



Langkah 3: Reflected Cross Site Scripting (XSS) Injection #2 - Popup Cookie a. Uji Injeksi (XSS) - instruksi: - Di Hostname/IP Textbox tempatkan string berikut: Klik Tombol Pencarian DNS



b. Memulai server apache2 Start Apache2



```
(0 kali) - [/home/kali]
   ps -eaf | grep apache2 | grep -v grep
         151105
                  1 0 May08 ?
                                        00:00:37 /usr/sbin/apache2 -k start
ww-data 200955 151105 0 00:00 ?
                                         00:00:00 /usr/sbin/apache2 -k start
ww-data 208956 151105 0 00:00 ?
                                         00:00:00 /usr/sbin/apache2 -k start
mw-data 208957 151105 0 00:00 ?
                                        00:00:00 /usr/sbin/apache2 -k start
mw-data 288958 151185 8 00:00 ?
                                        00:00:00 /usr/sbin/apache2 -k start
ww-data 288959 151185 0 00:00 ?
                                        00:00:00 /usr/sbin/apache2 -k start
ww-data 216894 151185 0 19:39 ?
                                        00:00:00 /usr/sbin/apache2 -k start
ww-data 216915 151185 0 19:39 ?
                                        00:00:00 /usr/sbin/apache2 -k start
ww-data 216916 151185 0 19:39 ?
                                        00:00:00 /usr/sbin/apache2 -k start
www-data 216917 151185 8 19:39 ?
                                        00:00:00 /usr/sbin/apache2 -k start
www-data 216918 151185 0 19:39 ?
                                        00:00:00 /usr/sbin/apache2 -k start
```

c. Buatlah direktori Apache Log Directory



d. Konfigurasi CGI Cookie Script

```
[root⊕ kali]-[/home/kali]
F cd /usr/lib/cgi-bin
```

```
| /usr/lib/cgi-bin
    weet https://github.com/cianni20/logit.git mv logit.pl.TXT logit.pl
-2023-05-15 20:17:17-- https://github.com/cianni20/logit.git
Resolving github.com (github.com) ... 20.205.243.166
Connecting to github.com (github.com)|20.205.243.166|:443... connected.
HTTP request sent, awaiting response ... 301 Moved Permanently
Location: https://github.com/cianni20/logit [following]
-- 2023-05-15 20:17:17-- https://github.com/cianni20/logit
Reusing existing connection to github.com:443.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/html]
Saving to: 'logit.git'
                                                                                                                      ] 162.13K -- -- KB/s in 0.08s
logit.git
2023-05-15 20:17:18 (1.96 MB/s) - 'logit.git' saved [166017]
-2023-05-15 20:17:18- http://mv/
Resolving mv (mv) ... failed: No address associated with hostname.
wget: unable to resolve host address 'mv'
-2023-05-15 20:17:18-- http://logit.pl.txt/
Resolving logit.pl.txt (logit.pl.txt)... failed: Wame or service not known.
wget: unable to resolve host address 'logit.pl.txt'
-2023-05-15 20:17:18-- http://logit.pl/
Resolving logit.pl (logit.pl) ... 213.186.33.5
Connecting to logit.pl (logit.pl)|213.186.33.5|:80 ... connected.
HTTP request sent, awaiting response... 302 Moved Temporarily
Location: http://lo.13.254.233:80/slogin/appoint.html?_URL_=http://logit.pl%2f6appoint=https://internet.ugm.ac.id/en/ [following]
-2023-05-15 20:17:18-- http://10.13.254.233/slogin/appoint.html?_URL_=http://logit.pl%2f6appoint=https://internet.ugm.ac.id/en/
Connecting to 10.13.254.233:80 ... connected.
HTTP request sent, awaiting response... 302 Moved Temporarily
Location: https://internet.ugm.ac.id/en/ [following]
-2023-05-15 20:17:18-- https://internet.ugm.ac.id/en/
Resolving internet.ugm.ac.id (internet.ugm.ac.id)... 10.13.243.12
Connecting to internet.ugm.ac.id (internet.ugm.ac.id) 10.13.243.12 443 ... connected.
HTTP request sent, awaiting response ... 200 OK
Length: 10062 (9.8K) [text/html]
Saving to: 'index.html
index.html
                                       100%[===
                                                                                                         2023-05-15 20:17:18 (123 MB/s) - 'index.html' saved [10062/10062]
FINISHED -- 2023-05-15 20:17:18--
Total wall clock time: 1.6s
Downloaded: 2 files, 172K in 0.08s (2.08 MB/s)
```

```
(root kali)-[/usr/lib/cgi-bin]

# chown www-data:www-data logit.pl

(root kali)-[/usr/lib/cgi-bin]

# chown 700 logit.pl

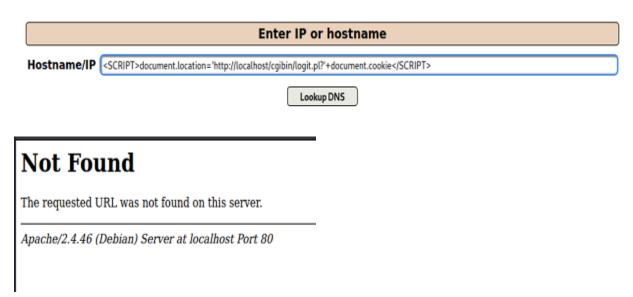
(root kali)-[/usr/lib/cgi-bin]

# perl -c logit.pl

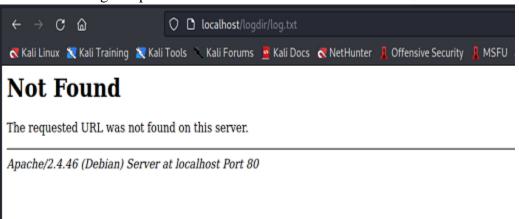
logit.pl syntax OK
```

Langkah 4: Test Cross Site Script (XSS) Injection

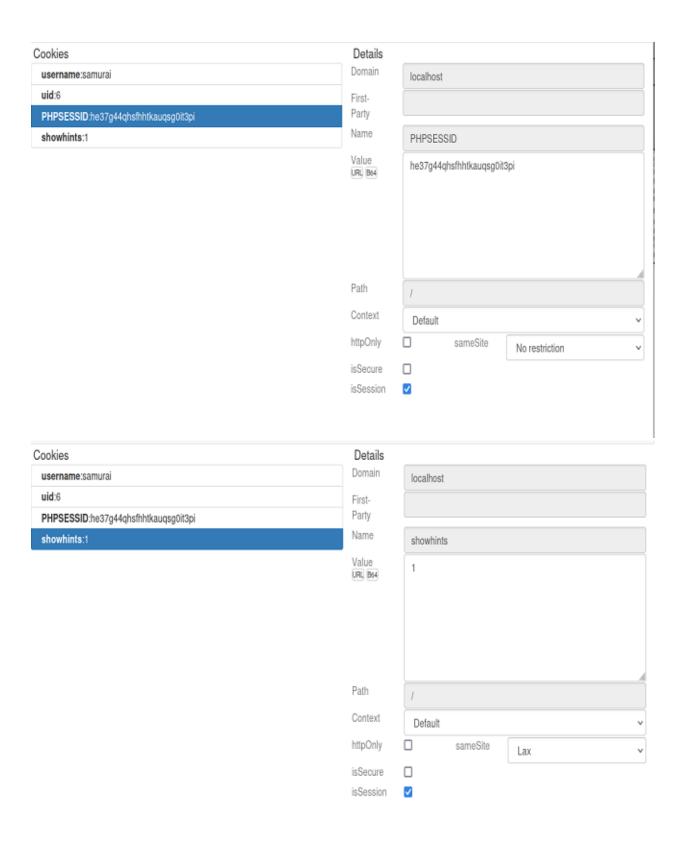
a. Instructions: Hostname/IP masukan string:

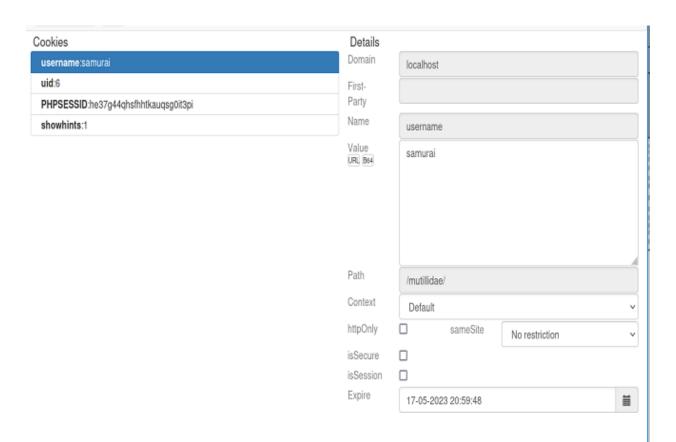


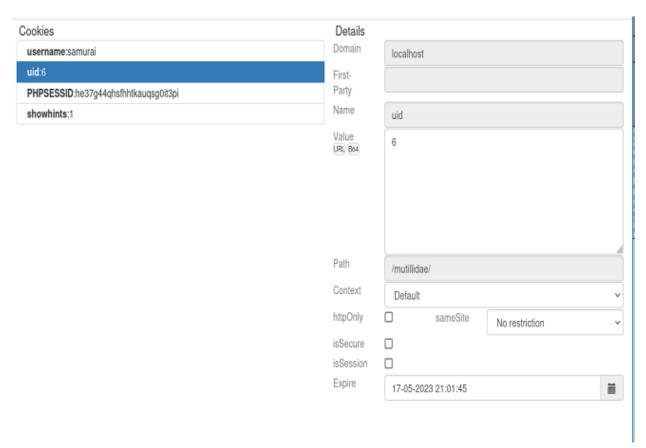
b. Lihat File Log Skrip Cookie



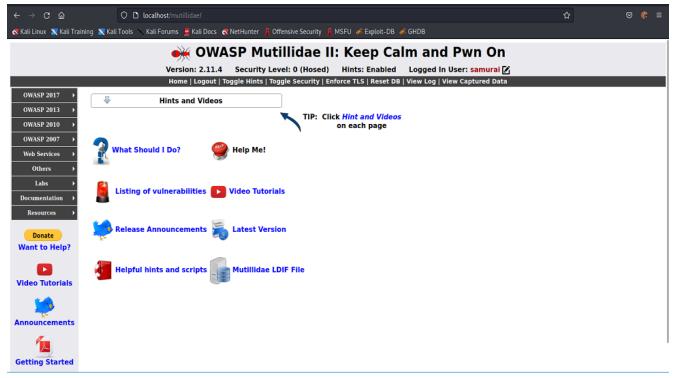
c. Simulasikan Serangan Man-In-The-Middle. Dimana kita akan mengubah nilai dan menambahkan nilai di Cookie+







d. setelah selesai menambah nilai di Cookie+, buka Mutillidae apakah tanpa klik Login/Register user sudah masuk?

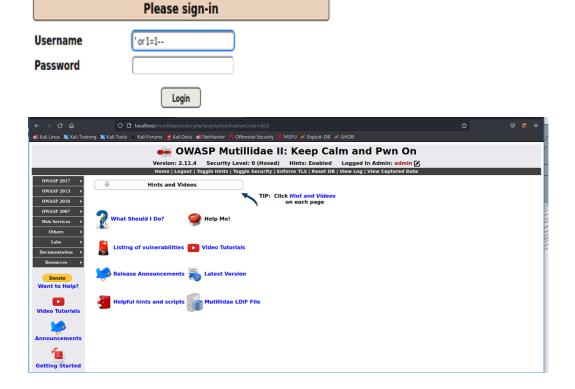


MODUL 2 SQL INJECTION

Langkah 1: SQL Injection: Single Quote Test pada form Username Klik Login / Register lalu Tempatkan satu kutipan (') di Kotak Teks Nama

sername assword		
assword		
	Login	
Error Message Failure is always an option		
Line 238		
Code 0		
File /var	ar/www/html/mutillidee/classes/MySQLHandler.php	
Message /var	/var/www/html/mutillidae/classes/MySQLHandler.php on line 230: You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ''' at line 1 Query: SELECT username FRDM accounts NMERE username='''; [1864] [mysqli_sql_exception]	
Trace #0 /htm	#0 /var/www/html/mutillidae/classes/MySQLHandler.php(328): MySQLHandler.>doExecuteQuery() #1 /var/www/html/mutillidae/classes/SQLQueryHandler.php(279): MySQLHandler.>executeQuery() #2 /var/www/html/mutillidae/includes/process-login-attempt.php(57): SQLQueryHandler.>accountExists() #3 /var/www/html/mutillidae/index.php(225): include once('') #4 {main}	
Diagnotic Information Erro	ror querying user account	
	Click here to reset the DB	

Langkah 2: SQL Injection: By-Pass Password tanpa Username Login Tanpa Kata Sandi, di username masukan ' or 1 = 1- - '



Langkah 3: SQL Injection: Single Quote Test On Password Field

1. Periksa Elemen Kotak Kata Sandi

Klik Login/Daftar 2. Nama: samurai 3. Kata Sandi: Klik Kanan 4. Klik Elemen Inspect

	Please sign-in	
Username	samurai	
Password		
	Login	

Ganti string "kata sandi" dengan kata "teks"

▼		
<irput< th=""><th>type="text" name="password"</th><th>size="20"></th></irput<>	type="text" name="password"	size="20">

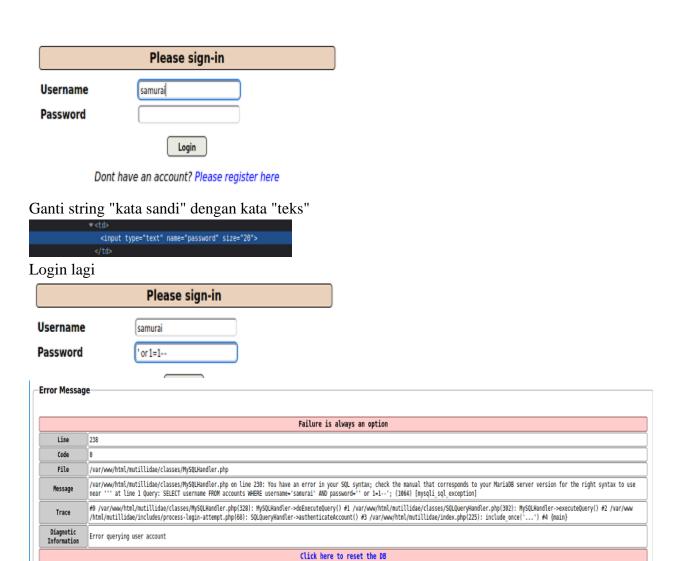
Lalu login lagi

Please sign-in		
Username	samurai	
Password	1	
	Login	

Dont have an account? Please register here

Error Messag	Error Message			
•				
	Failure is always an option			
Line	238			
Code	0			
File	/var/www/html/nutillidae/classes/MySQLHandler.php			
Message	/var/www/html/mutillidse/classes/MySQLHandler.php on line 238: You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '''' at line 1 Query: SELECT username FROM accounts MHERE username='samurai' AND password='''; (1064) [mysqli_sql_exception]			
Trace	#0 /var/www/html/mutillidae/classes/MySQLHandler.php(328): MySQLHandler->doExecuteQuery() #1 /var/www/html/mutillidae/classes/SQLQueryHandler.php(302): MySQLHandler->executeQuery() #2 /var/www/html/mutillidae/index.php(225): include_once('') #4 {nain}			
Diagnotic Information	Error querying user account			
	Click here to reset the DB			

Langkah 4: SQL Injection: Single Quote Test On Password Field Klik Login/Daftar 2. Nama: samurai 3. Kata Sandi: Klik Kanan 4. Klik Elemen Inspect



Langkah 5: SQL Injection: Single Quote Test On Password Field



Dont have an account? Please register here

Ganti string "kata sandi" dengan kata "teks" - Setelah size=, ganti string "20" dengan "50" - Setelah maxlength=, ganti string "20" dengan "50" - Minimalkan Firebug



	Please sign-in
Username	samurai
Password	or (1=1 and username='samurai')
	Login

Dont have an account? Please register here

Memverifikasi Hasil (Punya Samurai?)

