

Writeup Jeopardy

LKS Kota 2024



SMKN 4 Bandung

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Reverse Engineering

gaJelaS

The image shows two screenshots related to reverse engineering. The top screenshot is of the **Obfuscator.io Deobfuscator** website. It features a dark theme with a header containing 'Discord' and 'GitHub' links. The main area has a text input field containing obfuscated JavaScript code, a 'Deobfuscate' button, and a code editor showing the deobfuscated code. Below the editor are four radio buttons: 'Simplify Expressions', 'Simplify Properties', 'Simplify Objects', and 'Remove Proxy Functions'. The bottom screenshot shows a hex-to-ASCII converter interface. It has a text input field with the hex string '4c4b537b6f62667573636174655f6a6176617363726970747d', a 'Character encoding' dropdown set to 'ASCII', and buttons for 'Convert', 'Reset', and 'Swap'. The output field shows the decoded string 'LKS{obfuscate_javascript}'.

Obfuscator.io Deobfuscator
A tool to undo obfuscation performed by obfuscator.io

```
hexToAscii(0x406596){var
0x43cce3=0x305d,0x2fda8d='';for(var
0x5dc499=0x0;
0x5dc499<0x4abed3[0x43cce3(0x175)];
0x5dc499+=0x2){var
0x1355b2=parseInt(0x4abed3[0x43cce3(0x170)]
(0x5dc499,0x2),0x10);
0x2fda8d+=String(0x43cce3(0x16a))
(0x1355b2);}return 0x2fda8d;}function
0x305d(0x1dbcf1,0x2ea61b){var
0x3a227b=0x3a22();return
0x305d=function(0x305d65,0x1a87a6)
{0x305d65=0x305d65-0x16a;var
0x2fda8d=0x3a227b(0x305d65);return
0x2fda8d},0x305d(0x1dbcf1,0x2ea61b);}var
hexSequence='4c4b537b6f62667573636174655f6a61766173
63726970747d',result=hexToAscii(hexSequence);
function 0x3a22(){var 0x406596=
['15885uhKqyl','12PfxuaQ','1835005KowGow','substr',
'4cUCBkw','150642vmfpyU','4254132AnaFL','224Fkum
Vn','length','13776060zflgRs','fromCharCode','4780
80CeCFrm','939190prnYES'];0x3a22=function()
{return 0x406596;}return 0x3a22();}
```

Paste hex numbers or drop file

4c4b537b6f62667573636174655f6a6176617363726970747d

Character encoding

ASCII

Convert Reset Swap

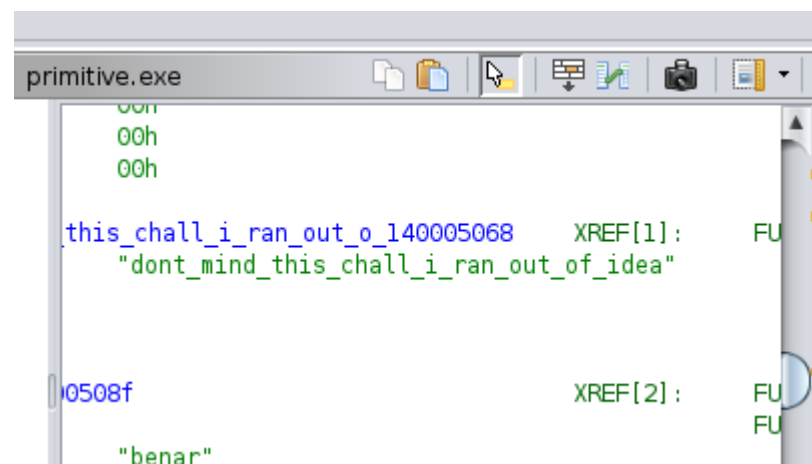
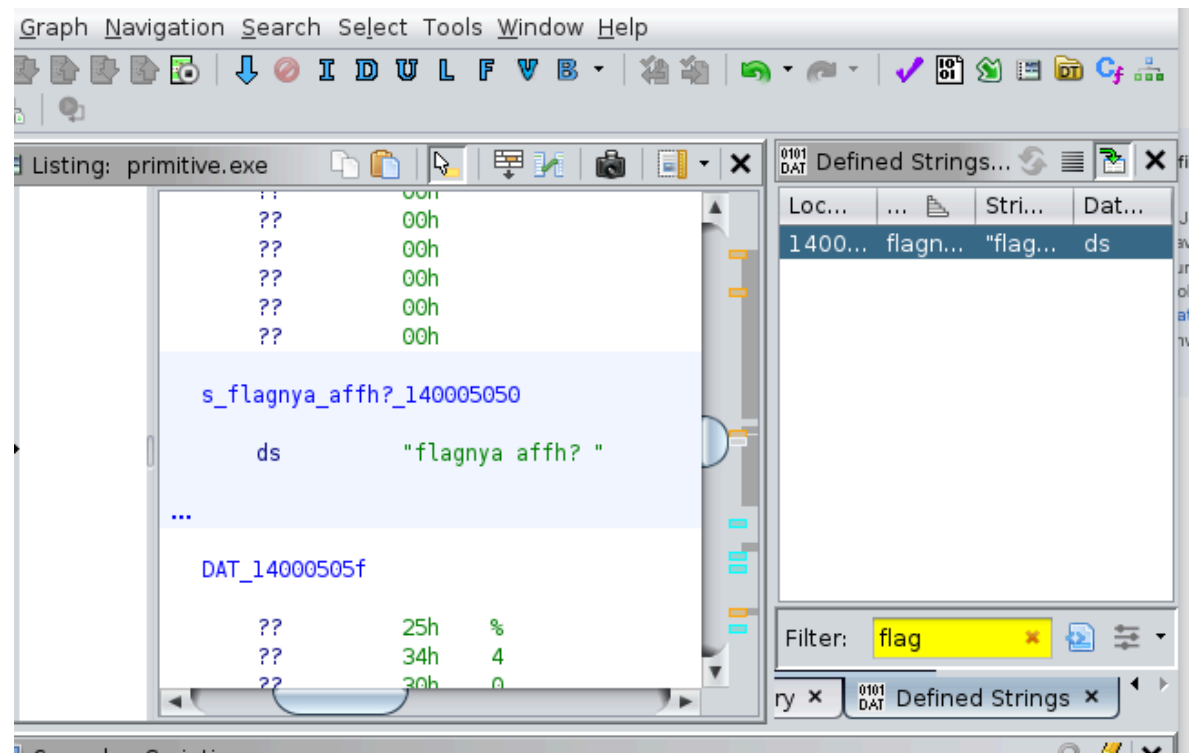
LKS{obfuscate_javascript}

reverse engineering :gaJelaS

Flag : LKS{Obfuscate_javascript}

Pembahasan : copy seluruh code chall.js yang telah di berikan, lalu lakukan obfuscation pada web <https://obf-io.deobfuscate.io/> selanjutnya akan terlihat hex number, convert hex number tersebut dan flag pun ditemukan

Primitive



pertama, saya mencari defined strings, dengan kata kunci flag, setelah itu saya klik 2x lalu muncul flag di gambar ke 2

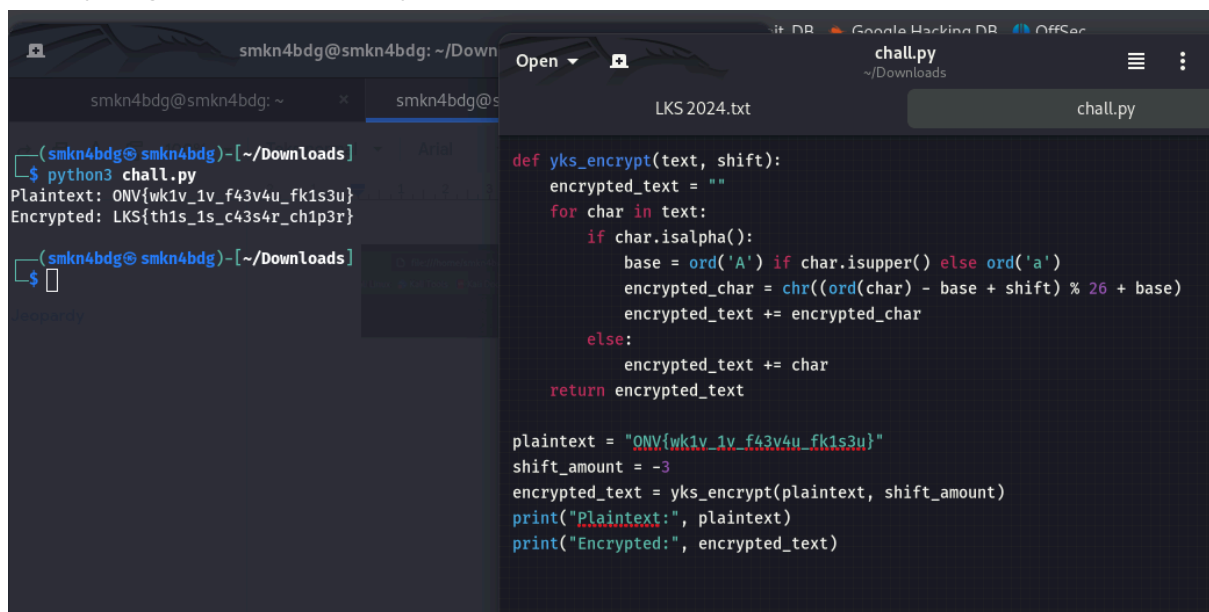
Cryptography

you keep smile

Flag : LKS{th1s_1s_c43s4r_ch1p3r}

dcode caesar cipher

pembahasan : cukup berikan - di shift_amount maka akan mengubah teks yang sudah di encrypt



The screenshot shows a terminal window on the left and a code editor on the right. The terminal shows the execution of a Python script that encrypts a plaintext string. The code editor shows the source code of the script, which includes a function to perform a Caesar cipher encryption.

```
smkn4bdg@smkn4bdg: ~/Downloads
$ python3 chall.py
Plaintext: ONV{wk1v_1v_f43v4u_fk1s3u}
Encrypted: LKS{th1s_1s_c43s4r_ch1p3r}

smkn4bdg@smkn4bdg: ~/Downloads
$
```

```
def yks_encrypt(text, shift):
    encrypted_text = ""
    for char in text:
        if char.isalpha():
            base = ord('A') if char.isupper() else ord('a')
            encrypted_char = chr((ord(char) - base + shift) % 26 + base)
            encrypted_text += encrypted_char
        else:
            encrypted_text += char
    return encrypted_text

plaintext = "ONV{wk1v_1v_f43v4u_fk1s3u}"
shift_amount = -3
encrypted_text = yks_encrypt(plaintext, shift_amount)
print("Plaintext:", plaintext)
print("Encrypted:", encrypted_text)
```

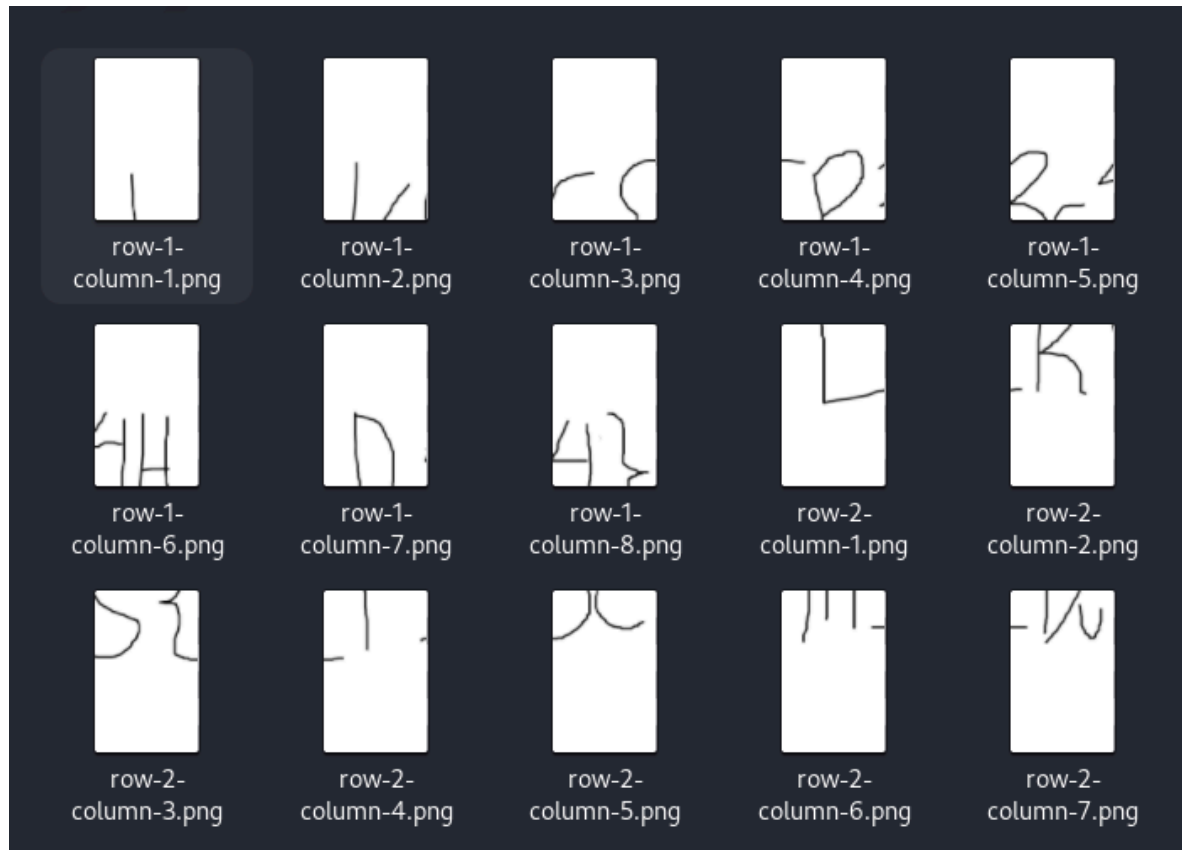
KARAKTER SPESIAL

flag : LKS{keren}

pembahasan : mencoba mengganti teks: ^b^%&@^%^e sesuai dengan keyboard : 6B6572656E dan descrypt hex to text menggunakan website string-functions.com

The screenshot shows a web browser window with the URL <https://string-functions.com/hex-string.aspx>. The browser's address bar and tabs are visible at the top. The website header features the logo **www.string-functions.com** and the tagline **ONLINE STRING MANIPULATION TOOLS**. The main heading is **Hex To Text Converter Online Tool**. Below this, a text input field contains the hexadecimal string `6B6572656E`. A **Convert!** button is positioned below the input field. The output section, labeled **The decoded string:**, displays the result `keren`. On the right side of the page, there are two sidebar sections: **String Manipulation For Programmers** (a red box with text about string function notation) and **Quick Access Toolbar** (a blue box with a list of various string manipulation tools like Reverse A String, Calculate String Length, etc.).

Hilang Terbelah



LKSP3c4H-D4}

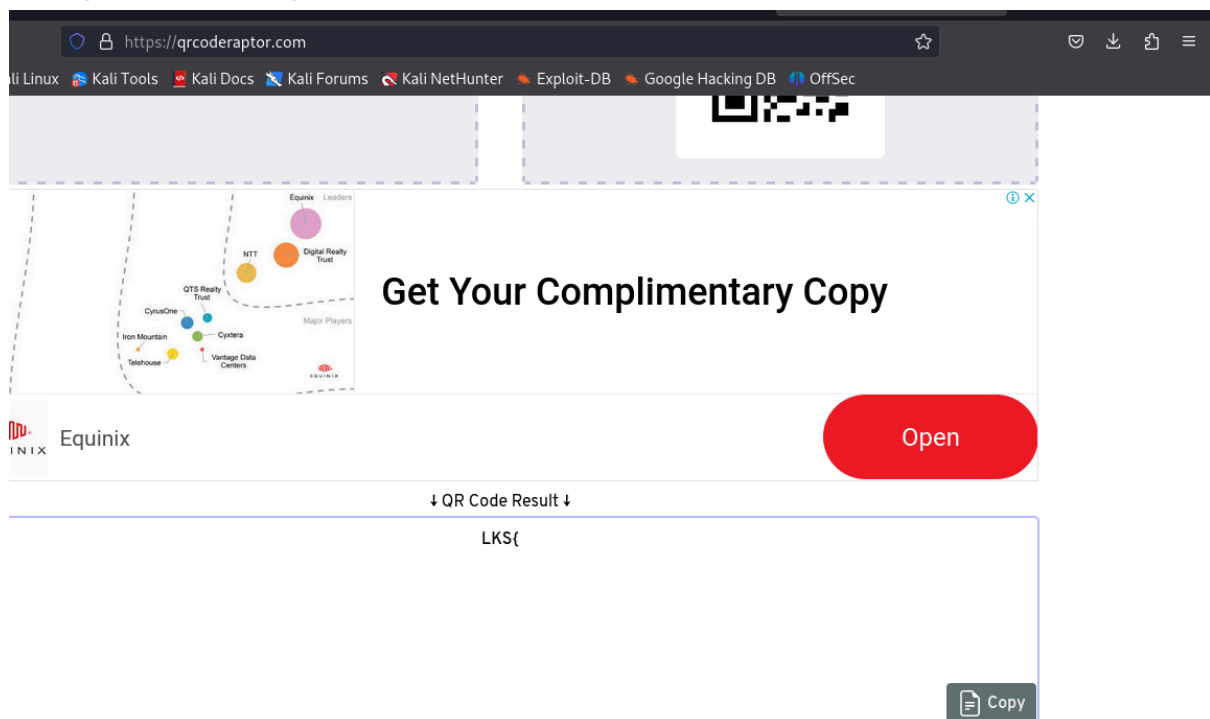
step pertama, buka <https://products.aspose.app/words/merger/image#> lalu drag semua foto sesuai dengan urutan, dengan begitu kita bisa merge foto tersebut dan mendapatkan flag

QRCODESS

Forensic : QRCODESS


flag : LKS{!0ts_of_qr_c0d3s}

pembahasan : mencoba menggunakan qrcode converter qr to string di website qrcoderaptor.com dan mengconvert file 7, 18 dan 32 dan menghasilkan flag



https://qrcoderaptor.com

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Equinix

Open

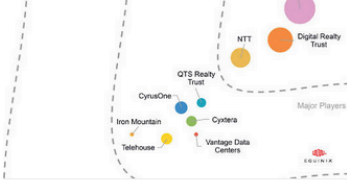
↓ QR Code Result ↓

IoT5_0f

Copy

https://qrcoderaptor.com

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Get Your Complimentary Copy

Equinix

Open

↓ QR Code Result ↓

_qr_c0d3s)

Copy

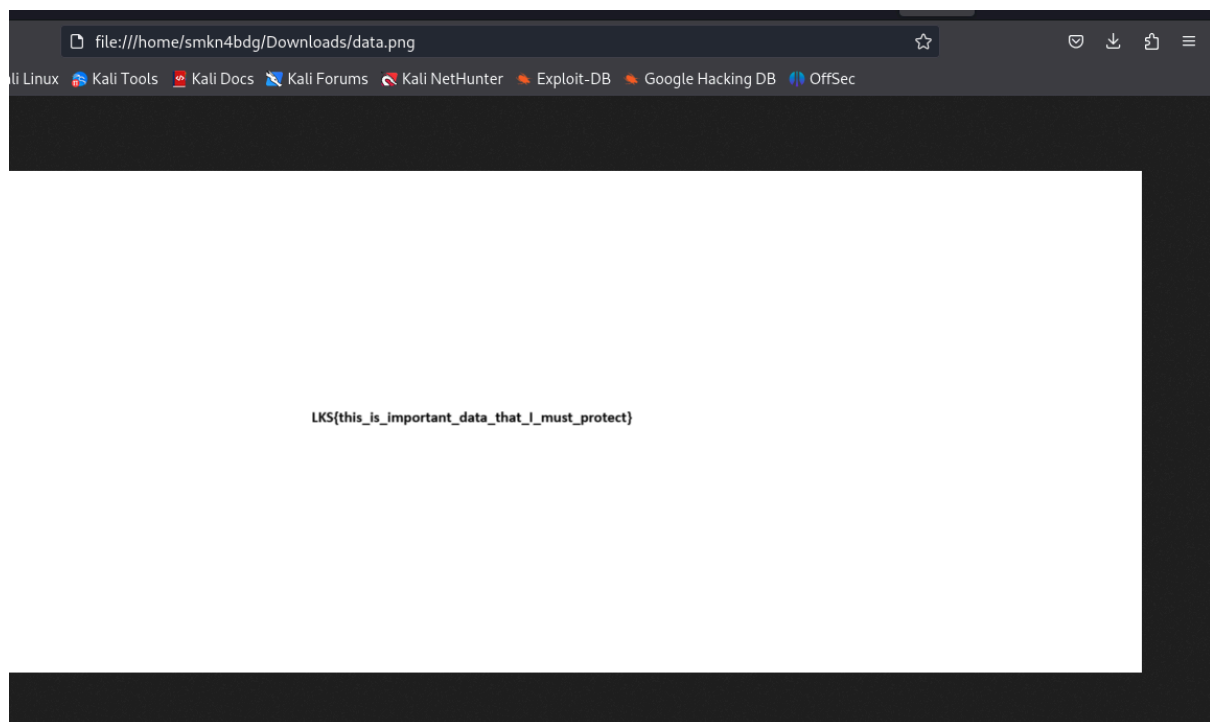
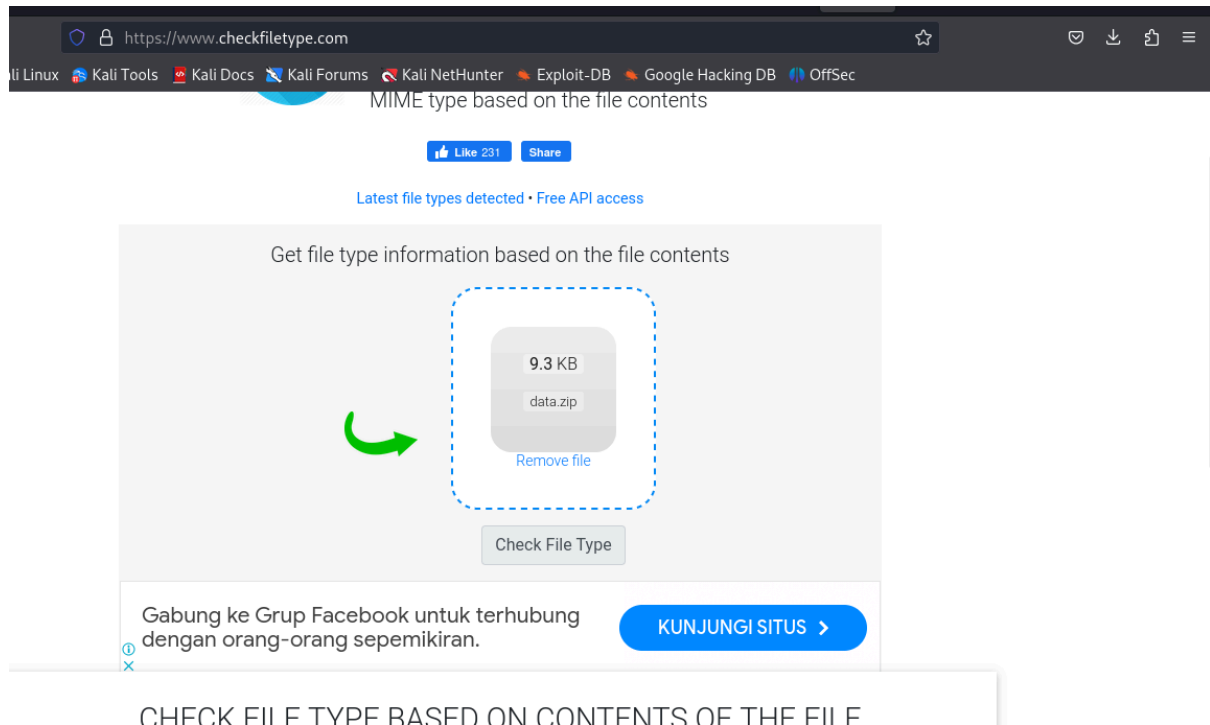
Send Feedback or Suggestions

[Online QR Code Decoder](#)

Data 1

Flag : LKS{this_is_important_data_that_I_must_protect}

Pembahasan : cek ekstensi file yang sebenarnya di website www.checkfiletype.com dan ekstensi file sebenarnya png dan ubah file zip tadi jadi png

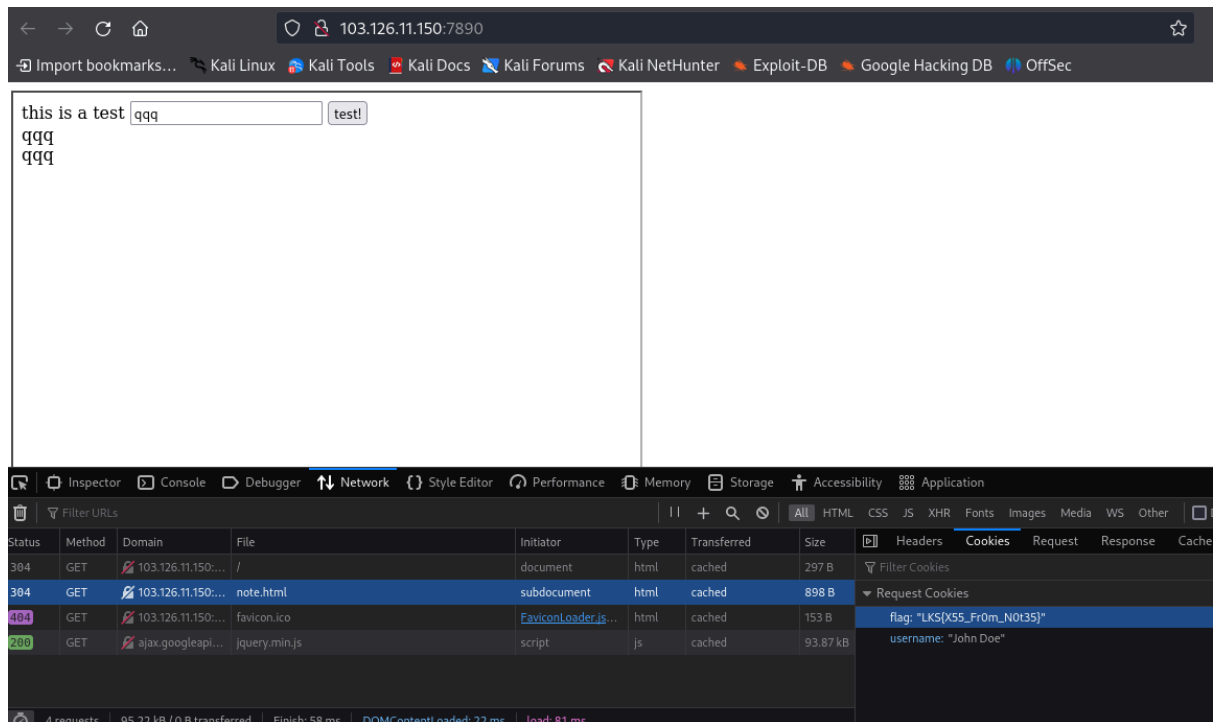


Web Exploitation

Client Side

Flag : LKS{X55_Fr0m_N0t35}

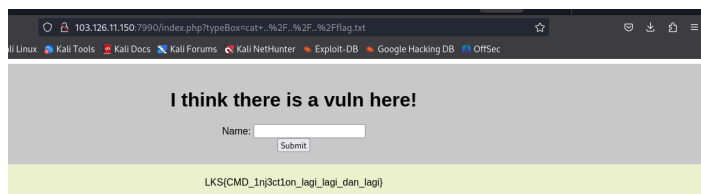
pembahasan : coba 1x submit form dan lihat request cookies dan muncul flag :
LKS{X55_Fr0m_N0t35}



CMD 2

Flag : LKS{CMD_1nj3ct1on_lagi_lagi_dan_lagi}

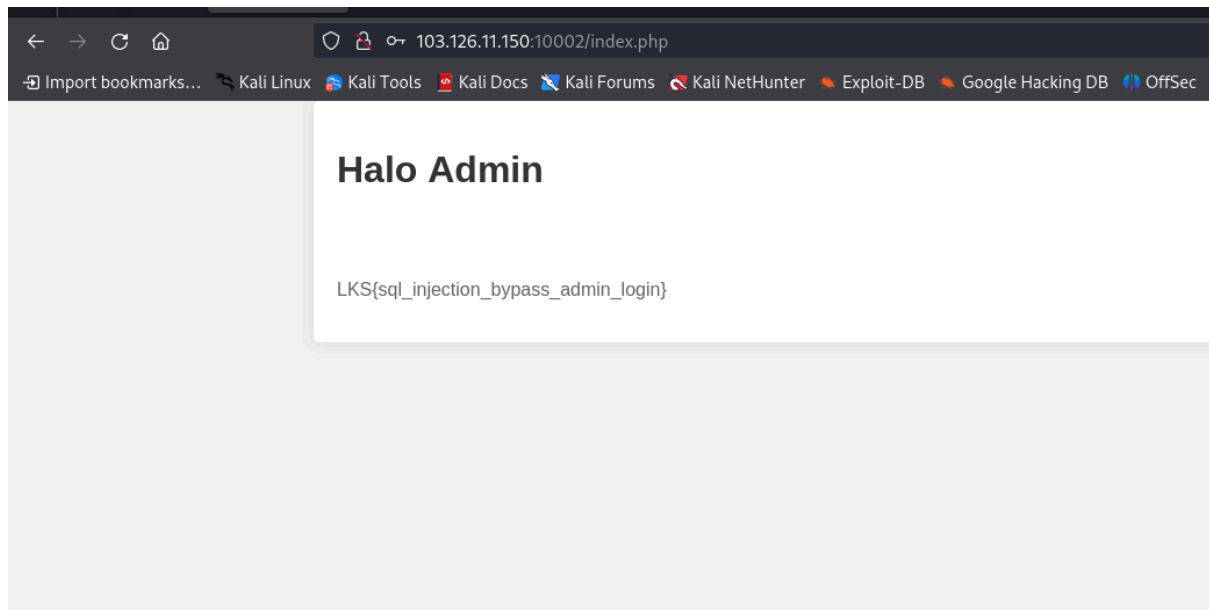
pembahasan : karena form nya untuk cmd maka kita cari file flag.txt dan file tersebut ada di `../../..//flag.txt`



Admin Login

flag : LKS{sql_injection_bypass_admin_login}

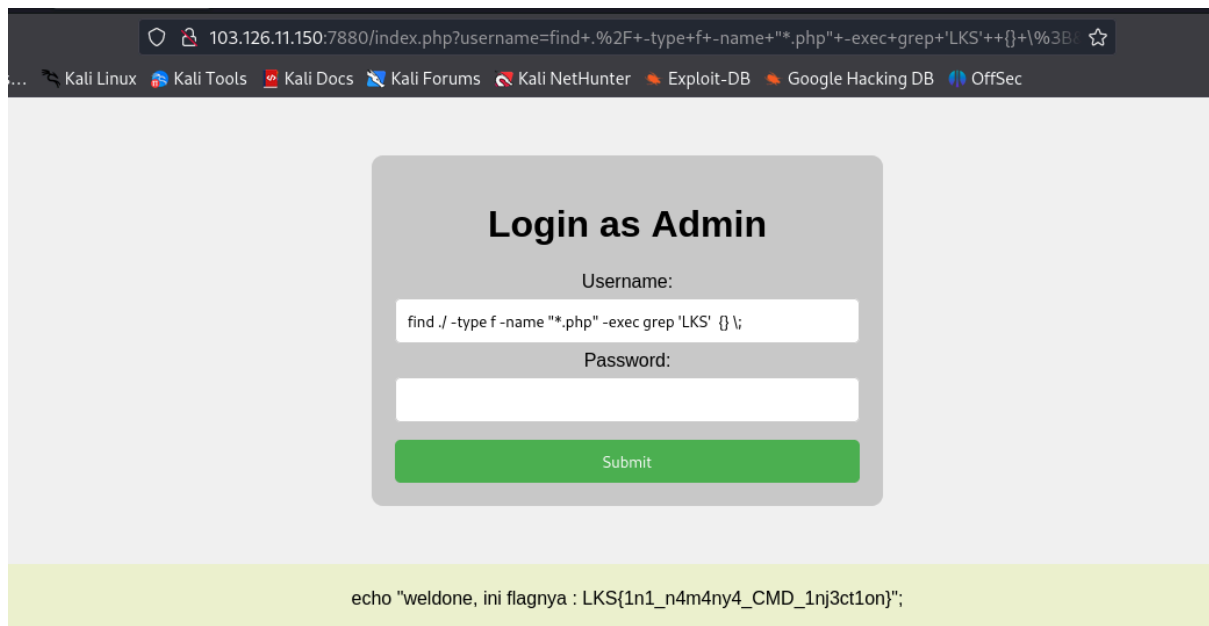
pembahasan : disini mencoba injection field nya dengan mengisi username 1' or '1' = '1' dan password : 1' or '1' = '1'



CMD 1

flag : LKS{1n1_n4m4ny4_CMD_1nj3ct1on}

pembahasan : disini menggunakan command find dan exec grep 'LKS' dan munculah baris code yang menampilkan flag nya



REVERSE ENGINEERING