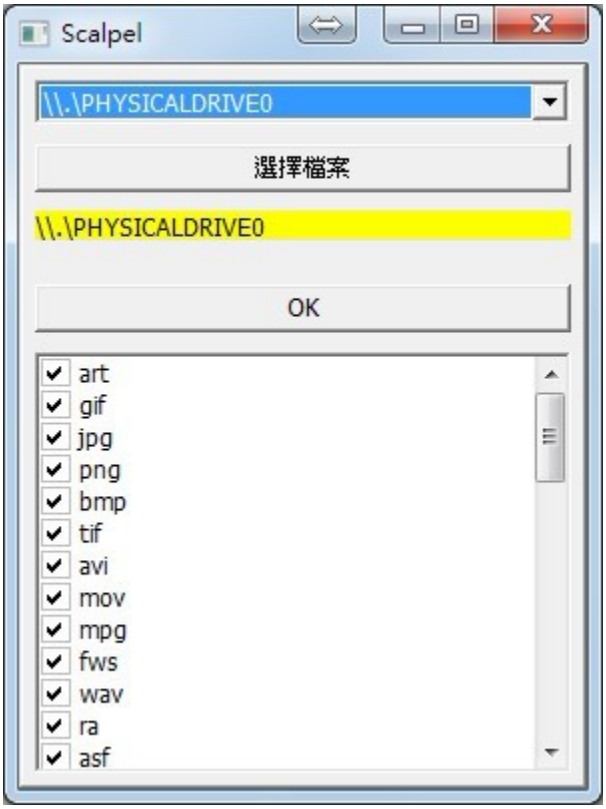
http://www.digitalforensicssolutions.com/Scalpel/
?File system ?????.Rstudio ????????????,???Block??????.
????????.
Scalpel ??? file carver recovery ?????? ,???file header ?block ??.
??????Rstudio ?????
??Scalpel ??command ???? ?????

??????????????
??????? (???GPL ??)

???? ?? ZIP ?.??
1.??Sources IMG ???????
2.???????????.
3.?????? (???????) ??????




```
#-*- coding: UTF-8 -*-
# Scalpel GUI 0.1
# Code by OSSLab  thx  .


import wx
```

```
import os
import wmi
import subprocess

ext = """# art y 150000 \\x4a\\x47\\x04\\x0e \\xcf\\xc7\\xcb
# art y 150000 \\x4a\\x47\\x03\\x0e \\xd0\\xcb\\x00\\x00
# gif y 5000000 \\x47\\x49\\x46\\x38\\x37\\x61 \\x00\\x3b
# gif y 5000000 \\x47\\x49\\x46\\x38\\x39\\x61 \\x00\\x00\\x3b
# jpg y 200000000 \\xff\\xd8\\xff\\xe0\\x00\\x10 \\xff\\xd9
# jpg y 200000000 \\xff\\xd8\\xff\\xe1 \\xff\\xd9
# png y 20000000 \\x50\\x4e\\x47? \\xff\\xfc\\xfd\\xfe
# bmp y 100000 BM??\\x00\\x00\\x00
# tif y 200000000 \\x49\\x49\\x2a\\x00
# tif y 200000000 \\x4D\\x4D\\x00\\x2A
# avi y 50000000 RIFF????AVI
# mov y 10000000 ????moov
# mov y 10000000 ????mdat
# mov y 10000000 ????widev
# mov y 10000000 ????skip
# mov y 10000000 ????free
# mov y 10000000 ????idsc
# mov y 10000000 ????pckg
# mpg y 50000000 \\x00\\x00\\x01\\xba \\x00\\x00\\x01\\xb9
# mpg y 50000000 \\x00\\x00\\x01\\xb3 \\x00\\x00\\x01\\xb7
# fws y 4000000 FWS
# wav y 200000 RIFF????WAVE
# ra y 1000000 .RMF
# ra y 1000000 \\x2e\\x72\\x61\\xfd
# asf y 8000000
\\x30\\x26\\xB2\\x75\\x8E\\x66\\xCF\\x11\\xA6\\xD9\\x00\\xAA\\x00\\x62\\xCE\\x6C
# wmv y 20000000
\\x30\\x26\\xB2\\x75\\x8E\\x66\\xCF\\x11\\xA6\\xD9\\x00\\xAA\\x00\\x62\\xCE\\x6C
# wma y 8000000 \\x30\\x26\\xB2\\x75 \\x00\\x00\\x00\\xFF
# wma y 8000000 \\x30\\x26\\xB2\\x75 \\x52\\x9A\\x12\\x46
# mp3 y 8000000 \\xFF\\xFB??\\x44\\x00\\x00
# mp3 y 8000000 \\x57\\x41\\x56\\45 \\x00\\x00\\xFF\\
# mp3 y 8000000 \\xFF\\xFB\\xD0\\ \\xD1\\x35\\x51\\xCC\\
# mp3 y 8000000 \\x49\\x44\\x33\\
# mp3 y 8000000 \\x4C\\x41\\x4D\\x45\\
# doc y 10000000 \\xd0\\xcf\\x11\\xe0\\xa1\\xb1\\x1a\\xe1\\x00\\x00
\\xd0\\xcf\\x11\\xe0\\xa1\\xb1\\x1a\\xe1\\x00\\x00 NEXT
# doc y 10000000 \\xd0\\xcf\\x11\\xe0\\xa1\\xb1
# pst y 500000000 \\x21\\x42\\x4e\\xa5\\x6f\\xb5\\xa6
# ost y 500000000 \\x21\\x42\\x44\\x4e
# dbx y 10000000 \\xcf\\xad\\x12\\xfe\\xc5\\xfd\\x74\\x6f
# idx y 10000000 \\x4a\\x4d\\x46\\x39
# mbx y 10000000 \\x4a\\x4d\\x46\\x36
# wpc y 1000000 ?WPC
# htm n 50000 <html </html>
# pdf y 5000000 %PDF %EOF\\x0d REVERSE
```

```
# pdf y 5000000 %PDF %EOF\\x0a REVERSE
# mail y 500000 \\x41\\x4f\\x4c\\x56\\x4d
# rpm y 1000000 \\xed\\xab
# dat y 4000000 regf
# dat y 4000000 CREG
# zip y 10000000 PK\\x03\\x04 \\x3c\\xac
# rar y 10000000 Rar!
# java y 1000000 \\xca\\xfe\\xba\\xbe
# max y 1000000 \\x56\\x69\\x47\\x46\\x6b\\x1a\\x00\\x00\\x00\\x00
\\x00\\x00\\x05\\x80\\x00\\x00
# pins y 8000 \\x50\\x49\\x4e\\x53\\x20\\x34\\x2e\\x32\\x30\\x0d
# vbox y 10000000000
<<<??????????????????????????????????????????????????????????????\\x00\\x7f\\x10\\xda\\xbe
# tgz y 2000000 \\x1f\\x8b\\x08\\x08
# 7z y 2147483648 \\x37\\x7a\\xbc\\xaf\\x27\\x1c
# ogg y 15728640 x4fx67x67x53x00x02 x4fx67x67x53x00x02 NEXT
# lnk y 4000
\\x4c\\x00\\x00\\x00\\x01\\x14\\x02\\x00\\x00\\x00\\x00\\x00\\xc0\\x00\\x00\\x00\\x00\\x00\\x00\\x46
# shd y 2000 \\x67\\x49\\x00\\x00
# shd y 2000 \\x4B\\x49\\x00\\x00
# blend y 1000000000 BLENDER_v ENDB
# mus y 1000000000 ENIGMA\\x20BINARY\\x20FILE \\x13\\x00\\x06\\x00\\x00\\x00
# dat y 8192 DynamicDictionary
# amr y 65535 #!AMR
# plist y 4096 <plist </plist
# email y 4096 From:"""




class MyApp(wx.App):
   #outputWindowClass = LogWindow
   def __init__(self, redirect=True):
      wx.App.__init__(self, redirect)


class main(wx.Frame):
   def __init__(self, parent, id, title, size):
      wx.Frame.__init__(self, parent, id, title, size = size)
      self._main()

   def CreateElement(self):
      # initial UI
      panel = wx.Panel(self, -1, style=wx.RAISED_BORDER)

      # Get physical disk driver
      c = [x.Name for x in wmi.WMI().query("SELECT * FROM Win32_DiskDrive")]
      self.phyDrivers = wx.Choice(panel, -1, choices =c)
      self.phyDrivers.SetSelection(0)
```

```
    # Create selecti image button
    self.file = wx.Button(panel, -1, u"????")
    # Create Start scalpel button
    self.start = wx.Button(panel, -1, u"OK")

    # choice options
    global ext
    c = []
    for i in ext.split("# ")[1:]:
        __ = i.split(" ", 1)[0]
        if __ not in c:
            c.append( __ )

    self.checkList = wx.CheckListBox(panel, -1, size=wx.DefaultSize, choices=c)
    self.checkList.SetChecked(range(len(c)))

    # Create label
    self.label = wx.StaticText(panel, -1, self.phyDrivers.GetStringSelection())
    self.label.SetBackgroundColour('yellow')

    # Setting UI
    box = wx.BoxSizer(wx.VERTICAL)
    box.Add(self.phyDrivers, 0, wx.ALL|wx.EXPAND, 5)
    box.Add(self.file, 0, wx.ALL|wx.EXPAND, 5)
    box.Add(self.label, 0, wx.ALL|wx.EXPAND, 5)
    box.Add(wx.StaticLine(panel, -1), 0, wx.ALL, 5)
    box.Add(self.start, 0, wx.ALL|wx.EXPAND, 5)
    box.Add(self.checkList, 2, wx.ALL|wx.EXPAND, 5)

    # Binding event
    self.phyDrivers.Bind(wx.EVT_CHOICE, self.OnChoice)
    self.start.Bind(wx.EVT_BUTTON, self.OnStart)
    self.file.Bind(wx.EVT_BUTTON, self.OnSelectFile)

    panel.SetSizer(box)

def OnChoice(self, evt):
    self.label.SetLabel( evt.GetString() )

def OnSelectFile(self, evt):
    dlg = wx.FileDialog(
        self, message="Choose a image file",
        defaultDir=os.getcwd(),
        defaultFile="",
        #wildcard=wildcard,
        style=wx.OPEN | wx.MULTIPLE | wx.CHANGE_DIR
        )

    if dlg.ShowModal() == wx.ID_OK:
        paths = dlg.GetPaths()
```

```
            path = paths[0]
        else:
            path = None
        dlg.Destroy()

        if path:
            self.label.SetLabel( path )

    def OnStart(self, evt):
        # generate scalpel.conf
        global ext
        buf = []
        __ = ext.split("# ")
        for i in self.checkList.GetCheckedStrings():
            [buf.append(x) for x in ext.split("# ") if x.startswith(str(i))]

        with open("./scalpel.conf", "wb") as fp:
            fp.write( "".join(buf) )

        dlg = wx.DirDialog(self, "Choose output directory:",
                           style=wx.DD_DEFAULT_STYLE
                           #| wx.DD_DIR_MUST_EXIST
                           #| wx.DD_CHANGE_DIR
                           )

        if dlg.ShowModal() == wx.ID_OK:
            directory = dlg.GetPath()
        else:
            directory = None
        dlg.Destroy()

        if directory:
            img = self.label.GetLabelText()
            subprocess.call( "bin\\scalpel.exe -v -o %s %s" % (directory, img) )
            subprocess.call("rundll32.exe user32,MessageBoxA aaa")

    def _main(self):
        # Create Buttons & Texts
        self.CreateElement()

        self.Centre()
        self.Show()

if __name__ == "__main__":
    app = MyApp(redirect=True)

    frame = main(None, -1, "Scalpel", (300, 400))
    app.MainLoop()
```