使用upx进行加壳

先查壳

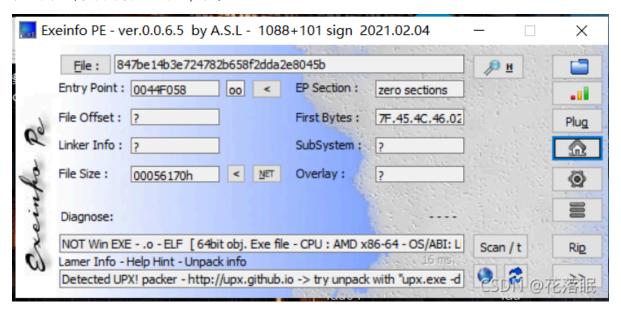
一般做到逆向的部分题的时候,把文件丢进ida会发现函数特别少,大部分都是加壳了

ida打开只有四个函数



丢入ExeinfoPe里面

发现有壳 (最下面那行显示是upx壳)



脱壳

首先安装工具,解压完之后进入到最里层文件夹中复制下来此时的地址,cmd打开命令行先cd把地址转换,之后直接输入upx.exe -h安装完成

会出现这样 (一大串)

```
Microsoft Windows [版本 10.0.19043.1237]
(c) Microsoft Corporation。保留所有权利。
C:\Users\10439>cd C:\Users\10439\Desktop\software\ida\upx-3.96-win64\upx-3.96-win64
C:\Users\10439\Desktop\software\ida\upx-3.96-win64\upx-3.96-win64>upx.exe -h
Usage: upx [-123456789dlthVL] [-qvfk] [-o file] file..
Commands:
         compress faster
                                                       compress better
   -best compress best (can be slow for big files)
                                                       list compressed file
         decompress
                                                       display version number
          test compressed file
 -h
         give this help
                                                -L
                                                       display software license
Options:
         be quiet
                                                       be verbose
 -oFILE write output to 'FILE'
         force compression of suspicious files
  --no-color, --mono, --color, --no-progress change look
Compression tuning options:
                        try all available compression methods & filters [slow]
 --ultra-brute
                        try even more compression variants [very slow]
Backup options:
 -k, --backup
                        keep backup files
  --no-backup
                        no backup files [default]
Overlay options:
                        copy any extra data attached to the file [default] strip any extra data attached to the file [DANGEROUS]
   -overlay=copy
-overlay=strip
  --overlay=skip
                        don't compress a file with an overlay
Options for djgpp2/coff:
                        produce COFF output [default: EXE]
   -coff
Options for dos/com:
  --8086
                        make compressed com work on any 8086
Options for dos/exe:
   -8086
                        make compressed exe work on any 8086
  --no-reloc
                        put no relocations in to the exe header
Options for dos/sys:
                        make compressed sys work on any 8086
  --8086
Options for ps1/exe:
                        uses 8 bit size compression [default: 32 bit]
  --8-bit
                        8 megabyte memory limit [default: 2 MiB] disables client/host transfer compatibility don't align to 2048 bytes [enables: --console-run]
  --8mib-ram
  --boot-only
  --no-align
Options for watcom/le:
                        produce LE output [default: EXE]
Options for win32/pe, win64/pe, rtm32/pe & arm/pe:
--compress-exports=0 do not compress the expo
                             do not compress the export section
                             compress the export section [default]
  --compress-exports=1
                             do not compress any icons
compress all but the first icon
compress all but the first icon directory [default]
compress all icons
  --compress-icons=0
  --compress-icons=1
  --compress-icons=2
  --compress-icons=3
    compress-resources=0
                             do not compress any resources at all
  --keep-resource=list
                             do not compress resources specified by list
   -strip-relocs=0
                             do not strip relocations
  --strip-relocs=1
                             strip relocations [default]
Options for linux/elf:
   -preserve-build-id
                             copy .gnu.note.build-id to compressed output
file..
         executables to (de)compress
This version supports:
    amd64-darwin.dylib
                                              dylib/amd64
    amd64-darwin.macho
                                              macho/amd64
    amd64-linux.elf
amd64-linux.kernel.vmlinux
                                              linux/amd64
                                              vmlinux/amd64
    amd64-win64.pe
                                              win64/pe
    arm-darwin. macho
                                              macho/arm
```

```
arm-linux.kernel.vmlinux
arm-linux.kernel.vmlinuz
                                                                   vmlinux/arm
                                                                   vmlinuz/arm
      arm-wince.pe
                                                                   arm/pe
      arm64-darwin. macho
                                                                   macho/arm64
     arm64-linux.elf
armeb-linux.elf
armeb-linux.kernel.vmlinux
                                                                   linux/arm64
                                                                   linux/armeb
                                                                   vmlinux/armeb
      fat-darwin.macho
                                                                   macho/fat
      i086-dos16.com
i086-dos16.exe
                                                                   dos/com
                                                                   dos/exe
      i086-dos16. sys
                                                                   dos/sys
                                                                  bsd. exec/i386
macho/i386
djgpp2/coff
      i386-bsd. elf. execve
      i386-darwin. macho
i386-dos32. djgpp2. coff
i386-dos32. tmt. adam
i386-dos32. watcom. le
                                                                  tmt/adam
                                                                  watcom/le
     1380-dos32.watcom.le

i386-freebsd.elf

i386-linux.elf

i386-linux.elf.execve

i386-linux.kernel.bvmlinuz

i386-linux.kernel.vmlinux

i386-linux.kernel.vmlinuz
                                                                   freebsd/i386
                                                                   linux/i386
linux.exec/i386
linux.sh/i386
                                                                  bvmlinuz/i386
vmlinux/i386
                                                                  vmlinuz/i386
netbsd/i386
      i386-netbsd.elf
                                                                  openbsd/i386
      i386-openbsd.elf
                                                                  win32/pe
atari/tos
linux/mips
linux/mipsel
      i386-win32.pe
     m68k-atari.tos
mips-linux.elf
mipsel-linux.elf
     mipsel.r3000-ps1
powerpc-darwin.macho
                                                                   ps1/exe
                                                                   macho/ppc32
     powerpc-linux.elf
powerpc-linux.kernel.vmlinux
powerpc64-linux.elf
                                                                   linux/ppc32
                                                                   vmlinux/ppc32
                                                                   linux/ppc64
     powerpc64le-darwin. macho
powerpc64le-linux. elf
powerpc64le-linux. kernel. vmlinux
                                                                   macho/ppc64le
linux/ppc64le
                                                                  vmlinux/ppc641e
UPX comes with ABSOLUTELY NO WARRANTY; for details visit https://upx.github.io
C:\Users\10439\Desktop\software\ida\upx-3.96-win64\upx-3.96-win64>
                                                                                                                                      CSDN @花落眠
```

之后就可以脱壳了,还在这个窗口,因为刚刚已经把地址转到了upx脱壳工具这里了,所以这下不用再转,(下次打开需要重新转)

先打操作指令

```
Commands:

-1 compress faster -9 compress better

--best compress best (can be slow for big files)

-d decompress -1 list compressed file

-t test compressed file -V display version number

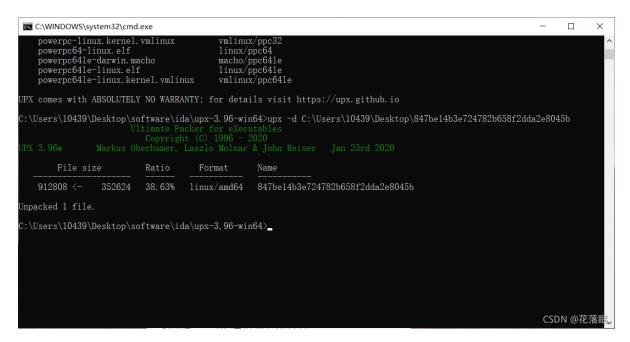
-h give this help -L display software license
```

这些是指令,其中-d是这次要用到的脱壳指令

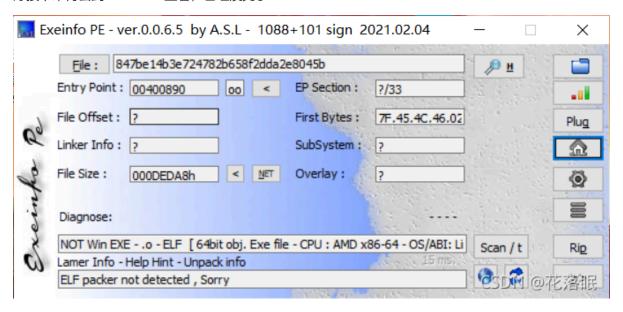
先打好指令upx -指令名 文件位置和名称 这样打

>upx -d C:\Users\10439\Desktop\847be14b3e724782b658f2dda2e8045b - 副本_

脱壳成功



好接下来再丢到ExeinfoPe查看,已经没壳了



再重新放入ida,出现了很多函数,f5操作一下

```
Function name
  _init_proc
f strcpy
   _memmove
   _stpcpy
   _strstr
   _memcmp
   _strcasecmp_l
   _memset
   _strcmp
   _strncasecmp_l
   _strchr
f backtrace_and_maps
f detach_arena_part_0
   __gconv_release_step_part_1
f read_int
f read_int_0
f com
f fini
f init_cacheinfo
  _start
f deregister_tm_clones
f register_tm_clones
   __do_global_dtors_aux
f frame_dummy
f main
f generic_start_main
  get_common_indeces_constprop_1
   __libc_start_main
   __libc_check_standard_fds
   __libc_setup_tls
  _dl_tls_setup
   __pthread_initialize_minimal
Line 1 of 866
                                  CSDN @花落眠
```

补充一些其他的UPX命令

压缩可执行文件: UPX XXX.exe 解压缩可执行文件: UPX -d XXX.exe

1. upx.exe -o 别名.exe -d 现名.exe

2.

3. -o: 表示输出;

4.

5. -o 别名.exe: 表示以别名.exe作为脱壳后的输出;

6.

7. -d 现名.exe: 表示以现名.exe作为脱壳前的输入

列表: UPX -l sample.exe

测试压缩过的可执行文件: UPX -t sample.exe

显示版本号: upx-V (注意区分大小写)

```
D:\Learning_tools\逆向工具\upx-3.95-win64>upx -V
upx 3.95
NRV data compression library 0.84
UCL data compression library 1.03
zlib data compression library 1.2.3
LZMA SDK version 4.43
Copyright (C) 1996-2018 Markus Franz Xaver Johannes Oberhumer
Copyright (C) 1996-2018 Laszlo Molnar
Copyright (C) 2000-2018 John F. Reiser
Copyright (C) 2002-2018 Jens Medoch
Copyright (C) 1995-2005 Jean-loup Gailly and Mark Adler
Copyright (C) 1999-2006 Igor Pavlov
UPX comes with ABSOLUTELY NO WARRANTY; for details type 'upx -L'.
https://blog.csdn.net/qq_43633973
D:\Learning tools\逆向工具\upx-3.95-win64>_
```