Quick analysis note about DealPly (Adware)

kienmanowar.wordpress.com/2021/05/11/quick-analysis-note-about-dealply-adware/

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Overview

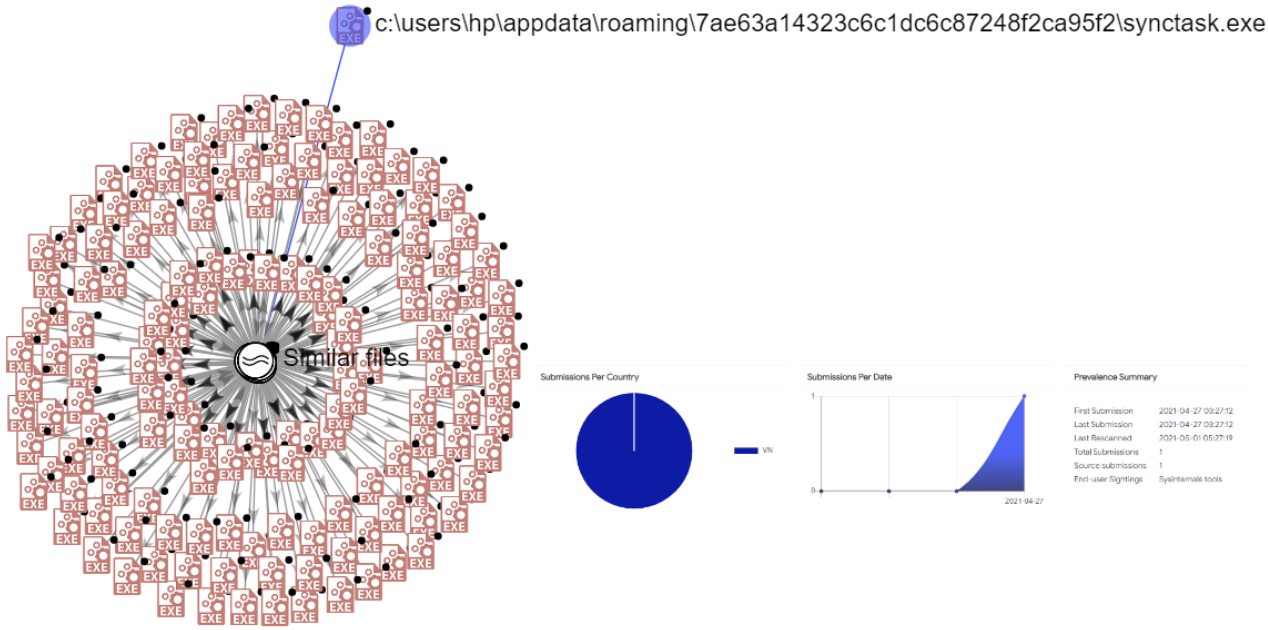
Some information about DealPly can be found here:

The post focuses on the following main sections:

- Unpack wrapper/loader to get main Dll payload.
- Decrypt C2url and strings are used in the malware code.

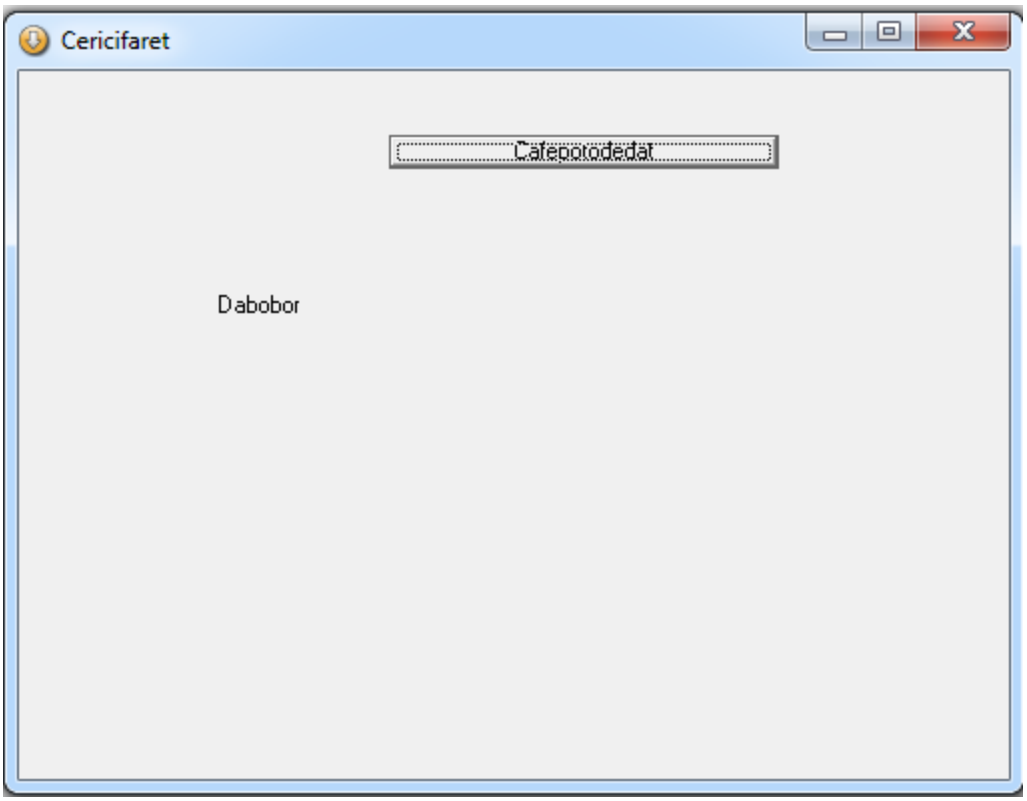
Sample:

SHA-256: 40584f79d109a18b1c4ea7e75a945324978652b6afcc9efbe62241717f0b4685

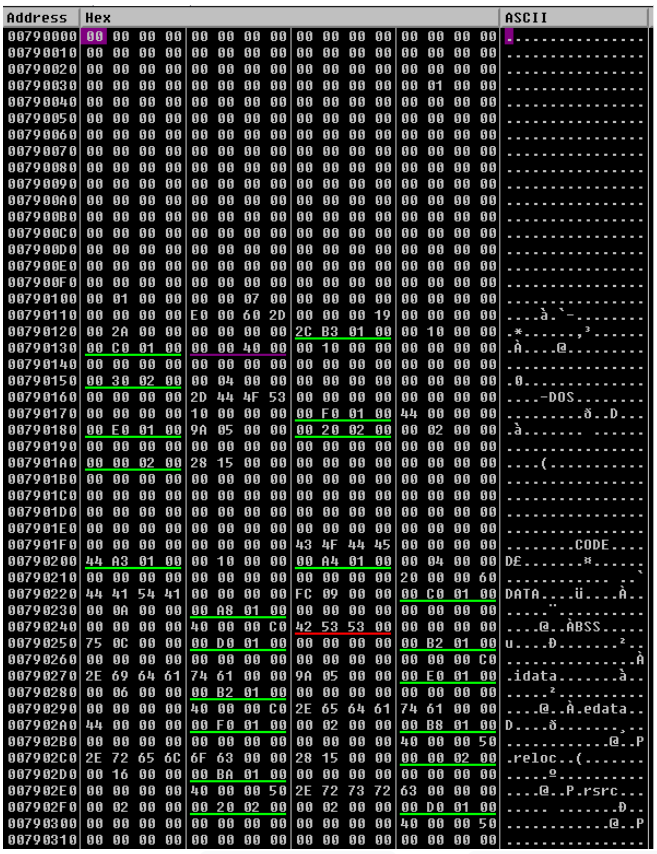


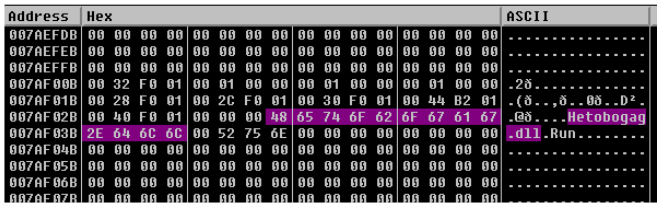
Unpacking wrapper/loader to get main DLL payload

Most of the DealPly loaders are coded in Delphi. When it runs ***without parameter***, it only shows the following form:

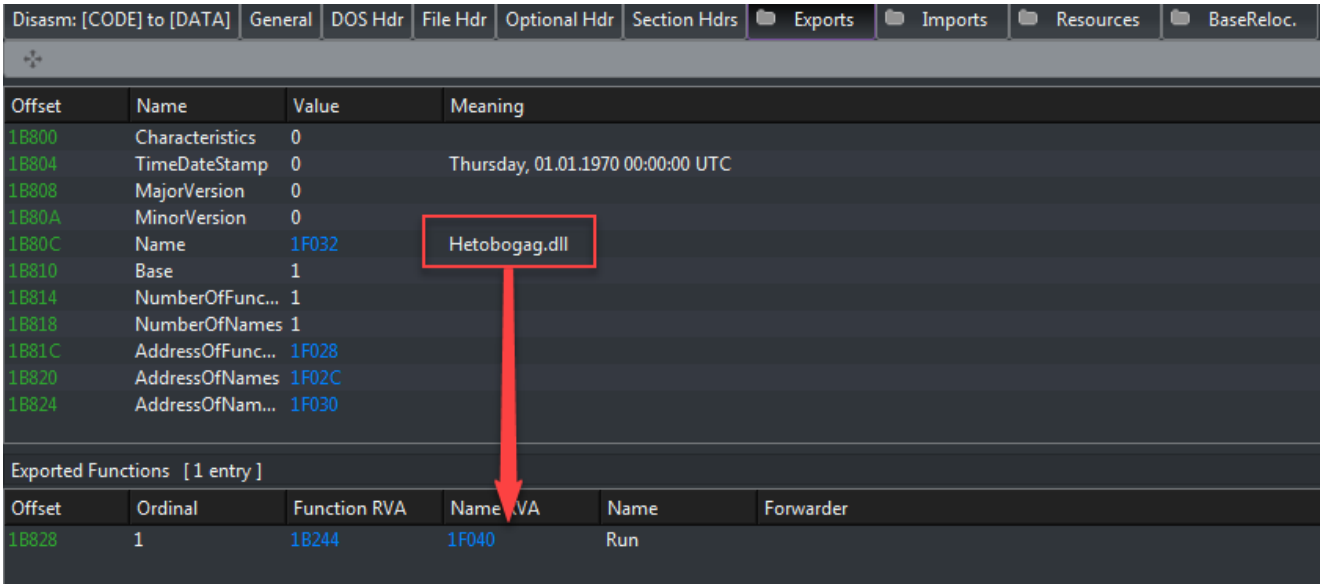


When executing ***with parameters***, it unpacks a DLL to allocated memory. This DLL will be mainly responsible for connecting and interacting with C2. For unpacking, place breakpoint at `VirtualAlloc`, execute the program and follow the allocated memory region. Keep watching until the loader unpack a new PE (*which is a dll*), but it was destroyed all relevant information about `DOS_HEADER` and `NT_HEADERS`:





Dump and fix `DOS_HEADER` and `NT_HEADERS` will get the correct main Dll:



Analysis of DLL payload

Decrypt C2Url

Load the above dumped Dll file into IDA, go to the code of the `Run` function. Here, it calls `f_main_proc` function. The `f_main_proc` accepts the passed parameters, in which the third parameter is encoded C2.

```
CODE:0041B269 Run      endp
CODE:0041B269
CODE:0041B269 ; ---------------------------------------------------------------------------
CODE:0041B26A          align 4
CODE:0041B26C _Q_ofa_Q.w::str_nz(void) dd 0FFFFFFFFh                ; _top
CODE:0041B26C                                                       ; DATA XREF: Run+11↑o
CODE:0041B26C          dd 16                                        ; Len
CODE:0041B26C          db 'nz`-10+Q,ofa-Q.w',0                      ; Text
CODE:0041B285          align 4
CODE:0041B288 _str_ka_aq___ dd 0FFFFFFFFh                               ; _top
CODE:0041B288                                                       ; DATA XREF: Run+16↑o
CODE:0041B288                                                       ; Run+1B↑o
CODE:0041B288          dd 8                                         ; Len
CODE:0041B288          db 'ka`aq._^',0                              ; Text
```

```
int __usercall Run@<eax>(int a1@<ebx>, int a2@<edi>, int a3@<esi>)
{
  return f_main_proc(
           &str_ka_aq___[1],
           &str_ka_aq___[1],
           &_Q_ofa_Q.w::str_nz[1],
           a1,
           a3,
           a2,
           Webadapt::TBaseValuesListAdapter::ImplGetListNameOfValue,
           Webadapt::TBaseValuesListAdapter::ImplGetListNameOfValue,
           Webscriptas::TActiveScriptObjectFactory::CreateProducerObject,
           0);
}
```

Diving into the code of `f_main_proc` will find the function responsible for performing the decoding of the malware's C2:

```
int __usercall Unit9_sub_00417670_00417670@<eax>(int szenC2Url@<eax>, int a2@<edx>, int a3@<ebx>, int a4@<esi>)
{
  int len; // eax MAPDST
  _EXCEPTION_REGISTRATION_RECORD *v8; // [esp-14h] [ebp-20h]
  void *v9; // [esp-10h] [ebp-1Ch]
  int *v10; // [esp-Ch] [ebp-18h]
  int v11; // [esp-8h] [ebp-14h]
  int v12; // [esp-4h] [ebp-10h]
  __int32 v13; // [esp+0h] [ebp-Ch]
  unsigned __int8 *tmp_tbl; // [esp+4h] [ebp-8h]
  int savedregs; // [esp+Ch] [ebp+0h]

  tmp_tbl = 0;
  v13 = 0;
  v12 = a3;
  v11 = a4;
  system__LStrAddRef_00403FF0(szenC2Url);
  v10 = &savedregs;
  v9 = &loc_41774D;
  v8 = KeGetPcr()->NtTib.ExceptionList;
  __writefsdword(0, &v8);
  f_tranform_c2Url(szenC2Url, &v13);
  system__LStrLAsg_00403C48(&szenC2Url, v13);
  if ( system__DynArrayLength_00403E08(szenC2Url) >= 2 )
  {
    len = system__DynArrayLength_00403E08(szenC2Url);
    system__LStrCopy_00404058(szenC2Url, len - 1, 2, &tmp_tbl);
    len = system__DynArrayLength_00403E08(szenC2Url);
    system__LStrSetLength_004040E0(&szenC2Url, len - 2);
    f_decrypt_c2Url(
      szenC2Url,
      ((tmp_tbl[1] + (*tmp_tbl << 8)) & 0xF)
    + 0x10 * (tmp_tbl[1] & 0xF0)
    + (((tmp_tbl[1] + (*tmp_tbl << 8)) & 0xF00) << 8)
    + (((tmp_tbl[1] + (*tmp_tbl << 8)) & 0xF000) << 0xC),
      a2);
  }
  __writefsdword(0, v8);
  v10 = &loc_417754;
  return system__LStrArrayClr_00403BD4(&v13, 3);
}
```

The code at the `f_tranform_c2Url` function will recalculate the bytes of `enC2Url`:

```
encUrl_len = system__DynArrayLength_00403E08(encUrl);
system__LStrSetLength_004040E0(encUrl_transform, encUrl_len);
val_0x2C = 0x2C;
i = 1;
j = 1;
while ( j <= system__DynArrayLength_00403E08(encUrl) )
{
  c = encUrl[j++ - 1];
  if ( (c - 0x2B) >= 4u )
  {
    calced_val = f_calc_value(c, val_0x2C);
    *(sub_404050(encUrl_transform) + i++ - 1) = calced_val;
  }
  else if ( c == val_0x2C )
  {
    if ( j > system__DynArrayLength_00403E08(encUrl) )
    {
      goto exit_sub;
    }
    ptr_encUrl_transform = sub_404050(encUrl_transform);
    ptr_encUrl_transform[i++ - 1] = encUrl[j++ - 1];
  }
  else
  {
    val_0x2C = c;
  }
}
```

```
int __fastcall f_calc_value(int c, char val_0x2C)
{
  char tmp; // dl
  char tmp2; // dl

  tmp = val_0x2C - 0x2B;
  if ( tmp )
  {
    tmp2 = tmp - 2;
    if ( tmp2 )
    {
      if ( tmp2 == 1 )
      {
        c = c + 0x85;
      }
      else
      {
        c = c;
      }
    }
    else
    {
      c = c + 0x4B;
    }
  }
  else
  {
    c = c - 0x30;
  }
  if ( c < 0 || c > 0xFF )
  {
    c = 0x3F;
  }
  return c;
}
```

After completing the transform process, call to `f_decrypt_c2Url` function to perform decoding to C2. In essence, the function `f_decrypt_c2Url` function will perform `xor` to decrypt, `xor_key` is calculated from the *last 2 bytes* of the transformed `enC2Url` above:

```
f_decrypt_c2Url(
  szenC2Url,
  ((tmp_tbl[1] + (*tmp_tbl << 8)) & 0xF)
+ 0x10 * (tmp_tbl[1] & 0xF0)
+ (((tmp_tbl[1] + (*tmp_tbl << 8)) & 0xF00) << 8)
+ (((tmp_tbl[1] + (*tmp_tbl << 8)) & 0xF000) << 0xC),
  a2);
```

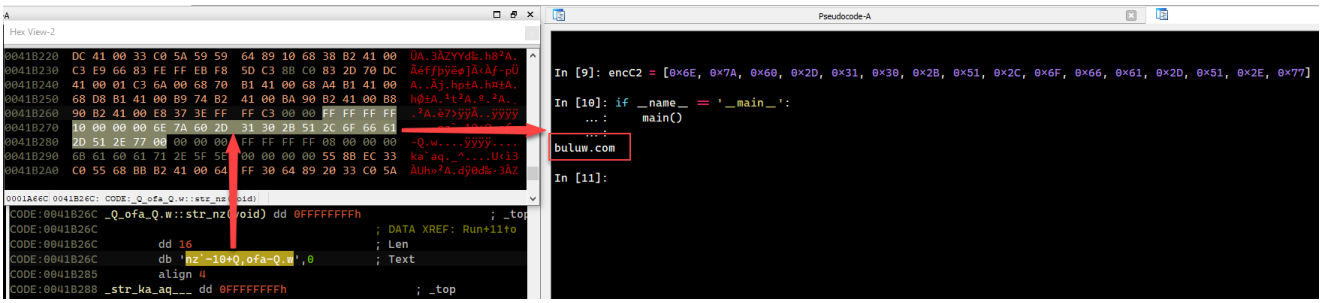
```
len_c2 = system__DynArrayLength_00403E08(encUrl);
i = 0;
if ( len_c2 >= 4 )
{
  tmp = tmp_val;
  ptr_encUrl = sub_404050(&encUrl);
  i = len_c2 / 4;
  if ( len_c2 / 4 - 1 >= 0 )
  {
    counter = len_c2 / 4;
    do
    {
      *ptr_encUrl ^= tmp;
      ++ptr_encUrl;
      --counter;
    }
    while ( counter );
  }
}
j = 0;
if ( len_c2 >= 4 * i + 1 )
{
  counter = len_c2 - 4 * i;
  idx = 4 * i + 1;
  do
  {
    ptr_encUrl_1 = sub_404050(&encUrl);
    ptr_encUrl_1[idx - 1] = *(&tmp_val + j) ^ encUrl[idx - 1];
    j = (j + 1) % 4;
    ++idx;
    --counter;
  }
  while ( counter );
}
```

With all the above information and pseudo-code, I rewrote the code that performs decoding C2 in Python as follows:

```
import numpy as np

#---------------------------------------------------------------------
def calc_value(c, val_0x2C):
    """""
    tmp = val_0x2C - 0x2B
    if tmp:
        tmp2 = tmp - 2
        if tmp2:
            if (tmp2 == 1):
                c = c + 0x85
            else:
                c = c & 0xFF
        else:
            c = c + 0x4B
    else:
        c = c - 0x30

    if (c < 0 or c > 0xFF):
        c = 0x3F

    return c

#---------------------------------------------------------------------
def int_to_bytes(value, length):
    """""
    result = []

    for i in range(0, length):
        result.append(value >> (i * 8) & 0xff)


    return result


#---------------------------------------------------------------------
def decrypt_c2url(encUrl, xor_tbl):
    """""
    c2_url = ""
    dec_c2 = []
    j = 0
    len_c2 = len(encUrl)
    if len_c2 >= 4:
        i = len_c2 / 4
        if (len_c2/4 -1 >= 0):
            counter = len_c2/4
            while counter:
                for k in range(len(xor_tbl)):
                    dec_c2.append(encUrl[j] ^ xor_tbl[j%len(xor_tbl)])
                    j+=1
                counter-=1
    j = 0
    if (len_c2 >= 4 *i +1):
        counter = len_c2 - 4 * i
        idx = 4 * i + 1
```

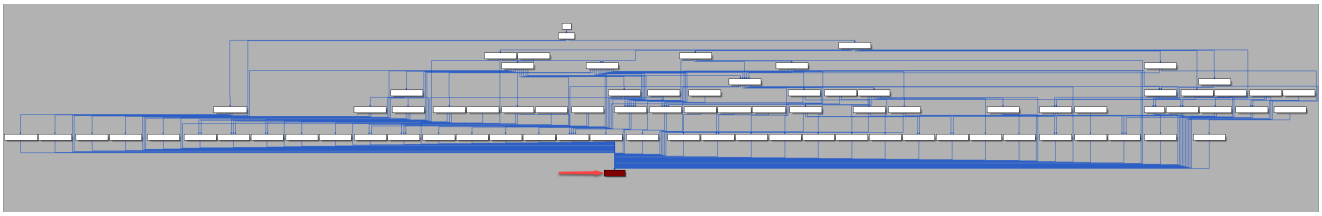
```
        while counter:
            dec_c2.append(encUrl[idx-1] ^ xor_tbl[j])
            j = (j + 1) % 4
            idx +=1
            counter-=1

    for i in dec_c2:
        c2_url += chr(i)

    return c2_url

#------------------------------------------------------------------------
def main():
    """""
    C2_transform = [0] * len(encC2)
    tmp_tbl = []
    val_0x2C = 0x2C
    i = 1
    j = 1

    while j <= len(encC2):
        c = encC2[j -1]
        j+=1
        if ((c - 0x2B) >= 4):
            calced_val = calc_value(c, val_0x2C)
            C2_transform[i-1] = calced_val
            i+=1
        elif (c == val_0x2C):
            if (j > len(encC2)):
                break
            C2_transform[i-1] = encC2[j-1]
            i+=1
            j+=1
        else:
            val_0x2C = c
    C2_transform = np.trim_zeros(C2_transform)
    tmp_tbl = C2_transform[len(C2_transform)-2:len(C2_transform)]
    C2_transform = C2_transform[:len(C2_transform)-2]
    tmp_val = ((tmp_tbl[1] + (tmp_tbl[0] << 8)) & 0xF) + 0x10 * (tmp_tbl[1] & 0xF0) +
(((tmp_tbl[1] + (tmp_tbl[0] << 8)) & 0xF00) << 8) + (((tmp_tbl[1] + (tmp_tbl[0] <<
8)) & 0xF000) << 0xC)
    xor_tbl = int_to_bytes(tmp_val, 4)

    print decrypt_c2url(C2_transform, xor_tbl)
```

Execute the above script and check the results. As the result, this sample will connect to `buluw[.]com`:

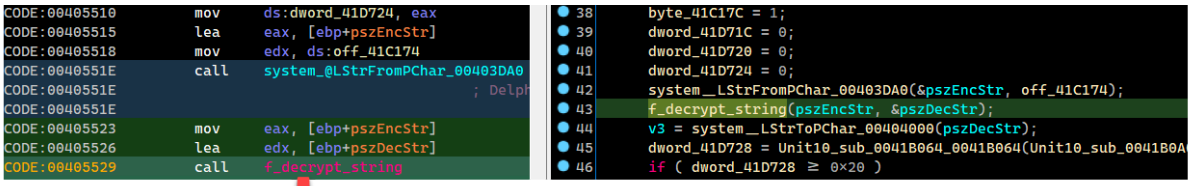


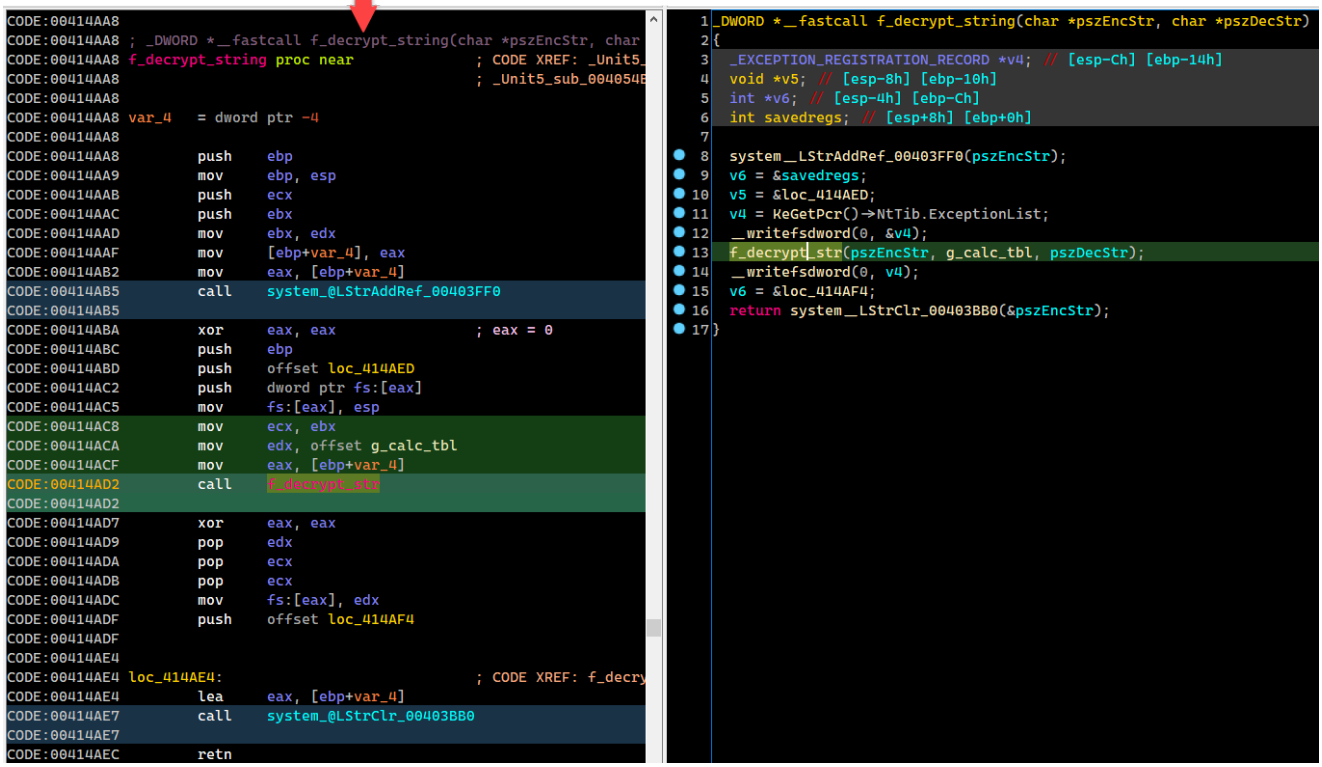
Decrypt strings

All strings used by malware are encrypted and only decrypt when needed. Through the analysis of the code will find the function responsible for decoding:



The code at this function is as follows:





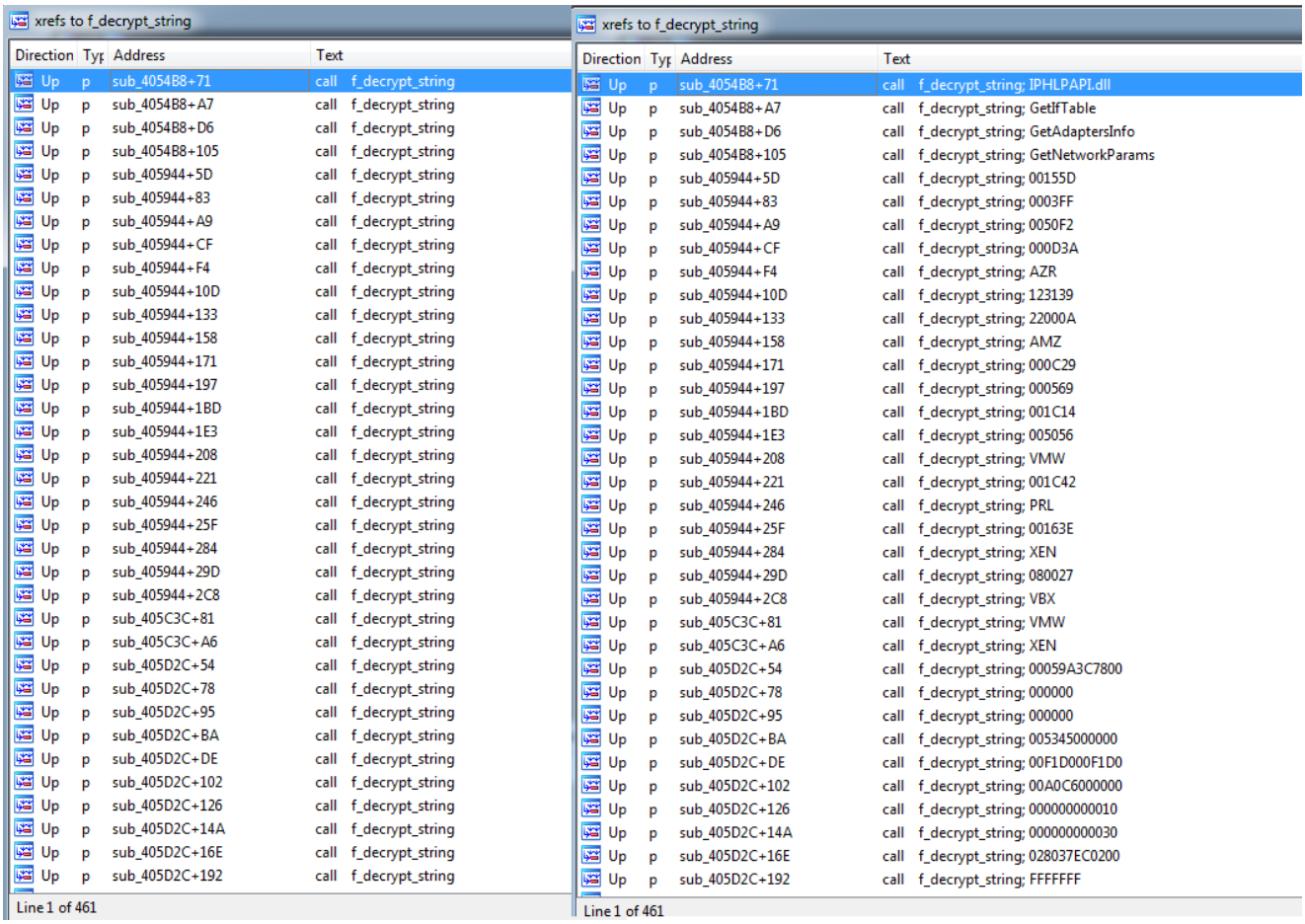
As above picture, `f_decrypt_string` function will take as the argument of the address that contains the pointer to the encrypted string (ex: `off_41C174`). The function responsible for performing the decryption is `f_decrypt_str`, which takes an additional parameter `g_calc_tbl` – *this is table contains **256 elements***, *used for the calculation*. The code at `f_decrypt_str` function looks like this:

Based on the pseudo-code analyzed above, I rewrote the idapython script that decodes all the strings as follows:

```
import idc
import idautils

dec_routine = 0x00414AA8

calc_tbl = [0x00, 0xD3, 0xBA, 0x30, 0xD7, 0xD8, 0xC1, 0xC9, 0xEB, 0x84, 0xAD, 0x88,
0x9C, 0x47, 0x74, 0xBC, 0x6D, 0x43, 0x40, 0x2B, 0xAE, 0x4B, 0x60, 0x5D, 0x5A, 0xEC,
0x31, 0xF3, 0x9F, 0x56, 0x1F, 0x1E, 0x93, 0x57, 0x5B, 0xF7, 0xC0, 0x2C, 0x7C, 0xC5,
0x69, 0x29, 0x90, 0x13, 0x25, 0xE4, 0xA7, 0x99, 0x03, 0x1A, 0xCA, 0x4C, 0xDA, 0x9A,
0x9E, 0xF4, 0xDB, 0x9D, 0xA0, 0x65, 0xAF, 0xB3, 0xF5, 0x51, 0x12, 0x58, 0x7D, 0x11,
0x6A, 0x5C, 0xF0, 0x0D, 0x85, 0x7E, 0xBE, 0x15, 0x33, 0xB4, 0x7A, 0xFD, 0xAC, 0x3F,
0x81, 0xFF, 0xED, 0x5E, 0x1D, 0x21, 0x41, 0xAA, 0x18, 0x22, 0x45, 0x17, 0x55, 0x96,
0x16, 0xA3, 0x95, 0xA1, 0xD4, 0x3B, 0xEA, 0xE6, 0xBF, 0x28, 0x44, 0x89, 0xD9, 0x10,
0xE7, 0xA8, 0xAB, 0x8A, 0xCE, 0xD2, 0x0E, 0xCF, 0x8D, 0xA2, 0xDC, 0xC8, 0x4E, 0xDD,
0x26, 0x42, 0x49, 0xE5, 0x8B, 0x52, 0xA4, 0xA5, 0x09, 0x48, 0xF8, 0xA6, 0x0B, 0x6B,
0x71, 0x80, 0x92, 0x76, 0xB5, 0xF9, 0x2A, 0xB6, 0x8C, 0x20, 0xCB, 0x62, 0x5F, 0xC6,
0xEE, 0x2F, 0x35, 0xBB, 0x0C, 0x39, 0x36, 0x1C, 0x3A, 0x63, 0x77, 0x61, 0x82, 0x83,
0x87, 0x2E, 0x6F, 0xC2, 0x59, 0x70, 0x50, 0x0A, 0x14, 0x3C, 0xCC, 0xC7, 0xE8, 0x3D,
0x4D, 0x8E, 0x91, 0xC3, 0xD0, 0xE9, 0x02, 0x9B, 0x0F, 0xCD, 0x4A, 0x68, 0x24, 0x06,
0xA9, 0xB7, 0xEF, 0x27, 0x97, 0xB1, 0x79, 0x07, 0x32, 0x94, 0xB0, 0xBD, 0x72, 0x75,
0xB8, 0xF1, 0x73, 0x01, 0x64, 0xF6, 0xDE, 0x04, 0x05, 0x6C, 0x34, 0x38, 0x78, 0x7B,
0xD6, 0xFA, 0xF2, 0xFB, 0xFE, 0xFC, 0x2D, 0x7F, 0x67, 0x6E, 0xB2, 0xB9, 0x66, 0x08,
0x19, 0x54, 0x98, 0xC4, 0x46, 0xD1, 0xE0, 0x1B, 0x37, 0x3E, 0xD5, 0x23, 0x86, 0x8F,
0xDF, 0xE1, 0xE3, 0x4F, 0xE2, 0x53]

#---------------------------------------------------------------------
def get_encrypted_bytes(addr):
    """"""
    enc_bytes = []
    enc_bytes_addr = idc.get_wide_dword(idc.get_operand_value(addr,1))

    while idc.get_wide_byte(enc_bytes_addr) != 0x0:
        enc_bytes.append(idc.get_wide_byte(enc_bytes_addr))
        enc_bytes_addr += 1

    return enc_bytes

#---------------------------------------------------------------------
def decrypt(enc_str):
    """"""
    plaint_t = ""
    decStr = [0] * len(enc_str)
    calc_tbl_val = calc_tbl[enc_str[0]]
    tmp1 = calc_tbl_val % 7
    tmp2 = calc_tbl_val % 9
    strLen = len(enc_str) - 1
    j = 2
    for i in range(strLen):
        c = calc_tbl[enc_str[j-1]] - tmp2 * (j - 1)
        decStr[j-1] = c & 0xFF
        j+= 1

    for i in decStr[tmp1+1:]:
        plaint_t+= chr(i)
```

```
    return plaint_t

#---------------------------------------------------------------------
def decrypt_strings(func_addr):
    """"""
    for x in idautils.XrefsTo(func_addr, 0):
        org_addr = x.frm
        curr_addr = x.frm
        addr_minus_20 = curr_addr - 20

        while curr_addr >= addr_minus_20:
            curr_addr = idc.prev_head(curr_addr)
            if 'edx' in idc.print_operand(curr_addr, 0) and
idc.get_operand_type(curr_addr, 1) == idc.o_mem:
                enc_bytes = get_encrypted_bytes(curr_addr)
                dec_str = decrypt(enc_bytes)
                print("org_addr: %s, decrypted string: %s" % (hex(org_addr),
dec_str))
                idc.set_cmt(org_addr, dec_str, 0)
            elif 'eax' in idc.print_operand(curr_addr, 0) and
idc.get_operand_type(curr_addr, 1) == idc.o_mem:
                enc_bytes = get_encrypted_bytes(curr_addr)
                dec_str = decrypt(enc_bytes)
                print("org_addr: %s, decrypted string: %s" % (hex(org_addr),
dec_str))
                idc.set_cmt(org_addr, dec_str, 0)

#---------------------------------------------------------------------
def main():
    """"""
    decrypt_strings(dec_routine)

if __name__ == '__main__':
    main()
```

Executing the above script:



xrefs to f_decrypt_string

Direction	Typ	Address	Text
Up	p	sub_4054B8+71	call f_decrypt_string
Up	p	sub_4054B8+A7	call f_decrypt_string
Up	p	sub_4054B8+D6	call f_decrypt_string
Up	p	sub_4054B8+105	call f_decrypt_string
Up	p	sub_405944+5D	call f_decrypt_string
Up	p	sub_405944+83	call f_decrypt_string
Up	p	sub_405944+A9	call f_decrypt_string
Up	p	sub_405944+CF	call f_decrypt_string
Up	p	sub_405944+F4	call f_decrypt_string
Up	p	sub_405944+10D	call f_decrypt_string
Up	p	sub_405944+133	call f_decrypt_string
Up	p	sub_405944+158	call f_decrypt_string
Up	p	sub_405944+171	call f_decrypt_string
Up	p	sub_405944+197	call f_decrypt_string
Up	p	sub_405944+1BD	call f_decrypt_string
Up	p	sub_405944+1E3	call f_decrypt_string
Up	p	sub_405944+208	call f_decrypt_string
Up	p	sub_405944+221	call f_decrypt_string
Up	p	sub_405944+246	call f_decrypt_string
Up	p	sub_405944+25F	call f_decrypt_string
Up	p	sub_405944+284	call f_decrypt_string
Up	p	sub_405944+29D	call f_decrypt_string
Up	p	sub_405944+2C8	call f_decrypt_string
Up	p	sub_405C3C+81	call f_decrypt_string
Up	p	sub_405C3C+A6	call f_decrypt_string
Up	p	sub_405D2C+54	call f_decrypt_string
Up	p	sub_405D2C+78	call f_decrypt_string
Up	p	sub_405D2C+95	call f_decrypt_string
Up	p	sub_405D2C+BA	call f_decrypt_string
Up	p	sub_405D2C+DE	call f_decrypt_string
Up	p	sub_405D2C+102	call f_decrypt_string
Up	p	sub_405D2C+126	call f_decrypt_string
Up	p	sub_405D2C+14A	call f_decrypt_string
Up	p	sub_405D2C+16E	call f_decrypt_string
Up	p	sub_405D2C+192	call f_decrypt_string

Line 1 of 461

xrefs to f_decrypt_string

Direction	Typ	Address	Text
Up	p	sub_4054B8+71	call f_decrypt_string; IPHLPAPI.dll
Up	p	sub_4054B8+A7	call f_decrypt_string; GetIfTable
Up	p	sub_4054B8+D6	call f_decrypt_string; GetAdaptersInfo
Up	p	sub_4054B8+105	call f_decrypt_string; GetNetworkParams
Up	p	sub_405944+5D	call f_decrypt_string; 00155D
Up	p	sub_405944+83	call f_decrypt_string; 0003FF
Up	p	sub_405944+A9	call f_decrypt_string; 0050F2
Up	p	sub_405944+CF	call f_decrypt_string; 000D3A
Up	p	sub_405944+F4	call f_decrypt_string; AZR
Up	p	sub_405944+10D	call f_decrypt_string; 123139
Up	p	sub_405944+133	call f_decrypt_string; 22000A
Up	p	sub_405944+158	call f_decrypt_string; AMZ
Up	p	sub_405944+171	call f_decrypt_string; 000C29
Up	p	sub_405944+197	call f_decrypt_string; 000569
Up	p	sub_405944+1BD	call f_decrypt_string; 001C14
Up	p	sub_405944+1E3	call f_decrypt_string; 005056
Up	p	sub_405944+208	call f_decrypt_string; VMW
Up	p	sub_405944+221	call f_decrypt_string; 001C42
Up	p	sub_405944+246	call f_decrypt_string; PRL
Up	p	sub_405944+25F	call f_decrypt_string; 00163E
Up	p	sub_405944+284	call f_decrypt_string; XEN
Up	p	sub_405944+29D	call f_decrypt_string; 080027
Up	p	sub_405944+2C8	call f_decrypt_string; VBX
Up	p	sub_405C3C+81	call f_decrypt_string; VMW
Up	p	sub_405C3C+A6	call f_decrypt_string; XEN
Up	p	sub_405D2C+54	call f_decrypt_string; 00059A3C7800
Up	p	sub_405D2C+78	call f_decrypt_string; 000000
Up	p	sub_405D2C+95	call f_decrypt_string; 000000
Up	p	sub_405D2C+BA	call f_decrypt_string; 005345000000
Up	p	sub_405D2C+DE	call f_decrypt_string; 00F1D000F1D0
Up	p	sub_405D2C+102	call f_decrypt_string; 00A0C6000000
Up	p	sub_405D2C+126	call f_decrypt_string; 000000000010
Up	p	sub_405D2C+14A	call f_decrypt_string; 000000000030
Up	p	sub_405D2C+16E	call f_decrypt_string; 028037EC0200
Up	p	sub_405D2C+192	call f_decrypt_string; FFFFFFF

Line 1 of 461

All the strings are decrypted:

```
org_addr: 0x405529, decrypted string: IPHLPAPI.dll
org_addr: 0x40555f, decrypted string: GetIfTable
org_addr: 0x40558e, decrypted string: GetAdaptersInfo
org_addr: 0x4055bd, decrypted string: GetNetworkParams
org_addr: 0x4059a1, decrypted string: 00155D
org_addr: 0x4059c7, decrypted string: 0003FF
org_addr: 0x4059ed, decrypted string: 0050F2
org_addr: 0x405a13, decrypted string: 000D3A
org_addr: 0x405a38, decrypted string: AZR
org_addr: 0x405a51, decrypted string: 123139
org_addr: 0x405a77, decrypted string: 22000A
org_addr: 0x405a9c, decrypted string: AMZ
org_addr: 0x405ab5, decrypted string: 000C29
org_addr: 0x405adb, decrypted string: 000569
org_addr: 0x405b01, decrypted string: 001C14
org_addr: 0x405b27, decrypted string: 005056
org_addr: 0x405b4c, decrypted string: VMW
org_addr: 0x405b65, decrypted string: 001C42
org_addr: 0x405b8a, decrypted string: PRL
org_addr: 0x405ba3, decrypted string: 00163E
org_addr: 0x405bc8, decrypted string: XEN
org_addr: 0x405be1, decrypted string: 080027
org_addr: 0x405c0c, decrypted string: VBX
org_addr: 0x405cbd, decrypted string: VMW
org_addr: 0x405ce2, decrypted string: XEN
org_addr: 0x405d80, decrypted string: 00059A3C7800
org_addr: 0x405da4, decrypted string: 000000
org_addr: 0x405dc1, decrypted string: 000000
org_addr: 0x405de6, decrypted string: 005345000000
org_addr: 0x405e0a, decrypted string: 00F1D000F1D0
org_addr: 0x405e2e, decrypted string: 00A0C6000000
org_addr: 0x405e52, decrypted string: 000000000010
org_addr: 0x405e76, decrypted string: 000000000030
org_addr: 0x405e9a, decrypted string: 028037EC0200
org_addr: 0x405ebe, decrypted string: FFFFFFF
org_addr: 0x405edb, decrypted string: FFFFF
org_addr: 0x406355, decrypted string: ldr1
org_addr: 0x406398, decrypted string: ldr2
org_addr: 0x406444, decrypted string: ShellExecuteA
org_addr: 0x406461, decrypted string: shell32.dll
org_addr: 0x4064d4, decrypted string: ShellExecuteExA
org_addr: 0x4064f1, decrypted string: shell32.dll
org_addr: 0x4069c6, decrypted string: wininet.dll
org_addr: 0x4069fa, decrypted string: http://
org_addr: 0x406a20, decrypted string: https://
org_addr: 0x406a46, decrypted string: InternetOpenA
org_addr: 0x406a72, decrypted string: InternetConnectA
org_addr: 0x406a9e, decrypted string: HttpOpenRequestA
org_addr: 0x406aca, decrypted string: HttpAddRequestHeadersA
org_addr: 0x406af6, decrypted string: HttpSendRequestA
org_addr: 0x406b22, decrypted string: HttpQueryInfoA
org_addr: 0x406b4e, decrypted string: InternetReadFile
org_addr: 0x406b7a, decrypted string: InternetCloseHandle
org_addr: 0x407369, decrypted string: POST
org_addr: 0x4073a0, decrypted string: GET
```

```
org_addr: 0x4074bb, decrypted string: Host:
org_addr: 0x4074f8, decrypted string: Accept: */*
org_addr: 0x407575, decrypted string: Host:
org_addr: 0x4075ca, decrypted string: Accept:
org_addr: 0x409145, decrypted string: kernel32.dll
org_addr: 0x40916e, decrypted string: VirtualAlloc
org_addr: 0x409235, decrypted string: $SIG
org_addr: 0x409495, decrypted string: kernel32.dll
org_addr: 0x4094be, decrypted string: VirtualAlloc
org_addr: 0x409585, decrypted string: $SIG
org_addr: 0x409700, decrypted string: Run
org_addr: 0x409947, decrypted string: RunEX
org_addr: 0x409982, decrypted string: https://
org_addr: 0x40999d, decrypted string: http://
org_addr: 0x4099fe, decrypted string: Run
org_addr: 0x409af4, decrypted string: $UpdateSRV
org_addr: 0x409b21, decrypted string: $UpdateLTR
org_addr: 0x409c53, decrypted string:
Software\Microsoft\Windows\CurrentVersion\Explorer\Advanced\
org_addr: 0x409c73, decrypted string: Hidden
org_addr: 0x409cd0, decrypted string: HideFileExt
org_addr: 0x409d2a, decrypted string: ShowSuperHidden
org_addr: 0x409e5c, decrypted string: CD_UIDC
org_addr: 0x409e80, decrypted string: CD_ins_guid
org_addr: 0x409ea4, decrypted string: CD_host_guid
org_addr: 0x409ec8, decrypted string: CD_iv
org_addr: 0x409eec, decrypted string: CD_aflt
org_addr: 0x409f16, decrypted string: a
org_addr: 0x409f40, decrypted string: aflt
org_addr: 0x409f64, decrypted string: uidp
org_addr: 0x409f88, decrypted string: IDT
org_addr: 0x409fbd, decrypted string: UID=
org_addr: 0x409ff3, decrypted string: &UID2=
org_addr: 0x40a02c, decrypted string: &UIDC=
org_addr: 0x40a067, decrypted string: &mguid=
org_addr: 0x40a0b0, decrypted string: &uidp=
org_addr: 0x40a0eb, decrypted string: &AppName=
org_addr: 0x40a116, decrypted string: &State=
org_addr: 0x40a151, decrypted string: &ins_guid=
org_addr: 0x40a17c, decrypted string: &host_guid=
org_addr: 0x40a1b7, decrypted string: &iv=
org_addr: 0x40a1e2, decrypted string: &aflt=
org_addr: 0x40a21d, decrypted string: &IDT=
org_addr: 0x40a248, decrypted string: &IRTYP=
org_addr: 0x40a286, decrypted string: &IRVER=
org_addr: 0x40a2c3, decrypted string: &OS=
org_addr: 0x40a308, decrypted string: &SV=
org_addr: 0x40a359, decrypted string: &lptp=1
org_addr: 0x40a38b, decrypted string: &lptp=0
org_addr: 0x40a3c1, decrypted string: &btry=1
org_addr: 0x40a3f3, decrypted string: &btry=0
org_addr: 0x40a426, decrypted string: &VMC=
org_addr: 0x40a46f, decrypted string: &REG=
org_addr: 0x40a4a0, decrypted string: CDATA
org_addr: 0x40a4da, decrypted string: SOFTWARE\
```

```
org_addr: 0x40a564, decrypted string: &Src=
org_addr: 0x40a5b6, decrypted string: src.dat
org_addr: 0x40a642, decrypted string: &Lang=
org_addr: 0x40a690, decrypted string: &Lang=
org_addr: 0x40a6de, decrypted string: &ADVF=
org_addr: 0x40a734, decrypted string: &FS=
org_addr: 0x40a79f, decrypted string: &sha=
org_addr: 0x40a7f6, decrypted string: &st_dt=
org_addr: 0x40a867, decrypted string: &ParamALL=
org_addr: 0x40a9e9, decrypted string: UnNM
org_addr: 0x40accc, decrypted string: Date:
org_addr: 0x40af23, decrypted string: &Admin=1
org_addr: 0x40af49, decrypted string: &Admin=0
org_addr: 0x40af70, decrypted string: &Idle=
org_addr: 0x40afac, decrypted string: &TDY=
org_addr: 0x40afe3, decrypted string: &LTDY=
org_addr: 0x40b028, decrypted string: &TDYC=
org_addr: 0x40b0c3, decrypted string: https://
org_addr: 0x40b0e4, decrypted string: http://
org_addr: 0x40b158, decrypted string: Location:
org_addr: 0x40b377, decrypted string: script
org_addr: 0x40b3ac, decrypted string: Flags=
org_addr: 0x40b3ed, decrypted string: CHECK
org_addr: 0x40b589, decrypted string: DFN
org_addr: 0x40b81a, decrypted string: UpdTask.exe
org_addr: 0x40b840, decrypted string: SynHelper.exe
org_addr: 0x40b866, decrypted string: Updane.exe
org_addr: 0x40b892, decrypted string: Sync.exe
org_addr: 0x40b8be, decrypted string: ProductUpdt.exe
org_addr: 0x40b8ea, decrypted string: SyncTask.exe
org_addr: 0x40b913, decrypted string: SyncVersion.exe
org_addr: 0x40b956, decrypted string: .exe
org_addr: 0x40ba7e, decrypted string: https://
org_addr: 0x40ba99, decrypted string: http://
org_addr: 0x40bae0, decrypted string: CR
org_addr: 0x40bb1a, decrypted string: CD
org_addr: 0x40bb94, decrypted string: &uid=
org_addr: 0x40bbc3, decrypted string: &ins_guid=
org_addr: 0x40bbf2, decrypted string: &host_guid=
org_addr: 0x40bc21, decrypted string: &iv=
org_addr: 0x40bc59, decrypted string: &AL=
org_addr: 0x40bc8e, decrypted string: a
org_addr: 0x40bcc4, decrypted string: aflt
org_addr: 0x40bcf4, decrypted string: CD_UIDC
org_addr: 0x40bd27, decrypted string: CD_ins_guid
org_addr: 0x40bd5a, decrypted string: CD_host_guid
org_addr: 0x40bd8d, decrypted string: CD_iv
org_addr: 0x40bdc0, decrypted string: CD_aflt
org_addr: 0x40bdf3, decrypted string: CD_AL
org_addr: 0x40be3b, decrypted string: CD
org_addr: 0x40be8a, decrypted string: Local_Inst_DT
org_addr: 0x40bebb, decrypted string: SNR_FAIL
org_addr: 0x40bef0, decrypted string: URL
org_addr: 0x40bf23, decrypted string: AppName
org_addr: 0x40bf59, decrypted string: uidp
```

```
org_addr: 0x40bf9c, decrypted string: UDAT0
org_addr: 0x40bfee, decrypted string: UDAT0
org_addr: 0x40c021, decrypted string: RKL
org_addr: 0x40c06c, decrypted string: RVL
org_addr: 0x40c0ad, decrypted string: RKL
org_addr: 0x40c0e0, decrypted string: RVL
org_addr: 0x40c113, decrypted string: RLM
org_addr: 0x40c158, decrypted string: RLM
org_addr: 0x40c1eb, decrypted string: Inst_DT
org_addr: 0x40c221, decrypted string: IRVER
org_addr: 0x40c26d, decrypted string: IRBVER
org_addr: 0x40c2b5, decrypted string: IRTYP
org_addr: 0x40c2f4, decrypted string: TodayFN
org_addr: 0x40c327, decrypted string: TodayCntFN
org_addr: 0x40c906, decrypted string: SDT
org_addr: 0x40c9c2, decrypted string: Src
org_addr: 0x40c9fc, decrypted string: src.dat
org_addr: 0x40cad5, decrypted string: .del
org_addr: 0x40cbb2, decrypted string: nosct
org_addr: 0x40cd96, decrypted string: noun
org_addr: 0x40cde6, decrypted string: /Uninstall
org_addr: 0x40ce13, decrypted string: DelSelfDir
org_addr: 0x40ce40, decrypted string: /GID=
org_addr: 0x40ce9d, decrypted string: ProdName
org_addr: 0x40cefd, decrypted string: prod.dat
org_addr: 0x40d01e, decrypted string: BkScript
org_addr: 0x40d13f, decrypted string: Flags=
org_addr: 0x40d19c, decrypted string: Install
org_addr: 0x40d52b, decrypted string: UReg
org_addr: 0x40d610, decrypted string: UFile
org_addr: 0x40d6a8, decrypted string: UDAT
org_addr: 0x40d749, decrypted string: UExFile
org_addr: 0x40d8e2, decrypted string: Uninstall
org_addr: 0x40d918, decrypted string: Update Service
org_addr: 0x40d93a, decrypted string: Uninstall completed successfully. Please
restart your computer to clean up files.
org_addr: 0x40d9a3, decrypted string: &APN=
org_addr: 0x40d9cb, decrypted string: &S=Uninstall&IDT=
org_addr: 0x40d9f3, decrypted string: IDT
org_addr: 0x40da3c, decrypted string: &DT=
org_addr: 0x40da67, decrypted string: &IRTYP=
org_addr: 0x40daa5, decrypted string: &IRVER=
org_addr: 0x40dad2, decrypted string: &UID=
org_addr: 0x40db49, decrypted string: BkScript
org_addr: 0x40dba9, decrypted string: config.dat
org_addr: 0x40dd1c, decrypted string: DelSelfDir
org_addr: 0x40dea9, decrypted string: Update Service
org_addr: 0x40decb, decrypted string: Uninstall
org_addr: 0x40defd, decrypted string: update process?
org_addr: 0x40df56, decrypted string: Uninstall must Reboot your computer to delete
files.
org_addr: 0x40df75, decrypted string: Continue with uninstall?
org_addr: 0x40dfec, decrypted string: Uninstall necessario riavviare il computer per
eliminare i file.
org_addr: 0x40e00b, decrypted string: Continuare con la disinstallazione?
```

```
org_addr: 0x40e02f, decrypted string: Désinstaller devez redémarrer votre ordinateur
pour supprimer les fichiers.
org_addr: 0x40e04e, decrypted string: Continuer la désinstallation?
org_addr: 0x40e072, decrypted string: Uninstall müssen Starten Sie Ihren Computer, um
Dateien zu löschen.
org_addr: 0x40e091, decrypted string: Fahren Sie mit dem deinstallieren?
org_addr: 0x40e0b5, decrypted string: Uninstall deve reiniciar o computador para
apagar arquivos.
org_addr: 0x40e0d4, decrypted string: Continue com a desinstalação?
org_addr: 0x40e0f5, decrypted string: Desinstalación debe reiniciar el equipo para
eliminar archivos.
org_addr: 0x40e114, decrypted string: Continúe con la desinstalación?
org_addr: 0x40e135, decrypted string: Desinstalación debe reiniciar el equipo para
eliminar archivos.
org_addr: 0x40e154, decrypted string: Continúe con la desinstalación?
org_addr: 0x40e17b, decrypted string: Update Service
org_addr: 0x40e1e0, decrypted string: noun
org_addr: 0x40e210, decrypted string: GID
org_addr: 0x40e2a9, decrypted string: /DoUninstall
org_addr: 0x40e2d2, decrypted string: /Uninstall
org_addr: 0x40e497, decrypted string: $UpdateSRV
org_addr: 0x40e4e1, decrypted string: $UpdateLTR
org_addr: 0x40e66d, decrypted string: script
org_addr: 0x40e6a2, decrypted string: Flags=
org_addr: 0x40e6e3, decrypted string: CHECK
org_addr: 0x40eac4, decrypted string: Update
org_addr: 0x40eadf, decrypted string: Install
org_addr: 0x40eaf8, decrypted string: Flags=
org_addr: 0x40eb50, decrypted string: IDT
org_addr: 0x40ec04, decrypted string: https://
org_addr: 0x40ec1f, decrypted string: http://
org_addr: 0x40ec41, decrypted string: /sanity/
org_addr: 0x40ef16, decrypted string: Ver
org_addr: 0x40ef38, decrypted string: DT:
org_addr: 0x40ef69, decrypted string: Ver:
org_addr: 0x40ef9f, decrypted string: BVer:
org_addr: 0x40efd5, decrypted string: Typ:
org_addr: 0x40f14e, decrypted string: nx
org_addr: 0x41045c, decrypted string: user32.dll
org_addr: 0x41048e, decrypted string: OemToCharA
org_addr: 0x41092a, decrypted string: kernel32.dll
org_addr: 0x410966, decrypted string: GetVersionExA
org_addr: 0x410a6b, decrypted string: ProductName
org_addr: 0x410a93, decrypted string: \Software\Microsoft\Windows NT\CurrentVersion\
org_addr: 0x410e2c, decrypted string: kernel32.dll
org_addr: 0x410e54, decrypted string: GetFileSize
org_addr: 0x411055, decrypted string: <?xml version="1.0" encoding="UTF-16"?>
org_addr: 0x411075, decrypted string: <Task version="1.1"
xmlns="http://schemas.microsoft.com/windows/2004/02/mit/task">
org_addr: 0x4110ae, decrypted string: <RegistrationInfo>
org_addr: 0x4110dd, decrypted string: <Description><#DESC#></Description>
org_addr: 0x41110c, decrypted string: </RegistrationInfo>
org_addr: 0x41113a, decrypted string: <#DESC#>
org_addr: 0x411171, decrypted string: <#TRIGGERS#>
org_addr: 0x4111a0, decrypted string: <Principals>
```

```
org_addr: 0x4111cf, decrypted string: <Principal id="Author">
org_addr: 0x411202, decrypted string: <UserId>SYSTEM</UserId>
org_addr: 0x411233, decrypted string: <LogonType>InteractiveToken</LogonType>
org_addr: 0x411260, decrypted string: <RunLevel>HighestAvailable</
org_addr: 0x411291, decrypted string: <RunLevel>LeastPrivilege</RunLevel>
org_addr: 0x4112c0, decrypted string: </Principal>
org_addr: 0x4112ef, decrypted string: </Principals>
org_addr: 0x411327, decrypted string: <Settings>
org_addr: 0x411362, decrypted string: <Enabled>true</Enabled>
org_addr: 0x41139d, decrypted string: <Hidden>false</Hidden>
org_addr: 0x4113d8, decrypted string: <RunOnlyIfIdle>false</RunOnlyIfIdle>
org_addr: 0x411413, decrypted string: <WakeToRun>false</WakeToRun>
org_addr: 0x41144e, decrypted string: <ExecutionTimeLimit>PT0S</ExecutionTimeLimit>
org_addr: 0x411489, decrypted string:
<DisallowStartIfOnBatteries>false</DisallowStartIfOnBatteries>
org_addr: 0x4114c4, decrypted string:
<StopIfGoingOnBatteries>false</StopIfGoingOnBatteries>
org_addr: 0x4114ff, decrypted string: <Priority>5</Priority>
org_addr: 0x41153a, decrypted string: </Settings>
org_addr: 0x411575, decrypted string: <Actions Context="Author">
org_addr: 0x4115b0, decrypted string: <Exec>
org_addr: 0x4115eb, decrypted string: <Command><#PROGRAM#></Command>
org_addr: 0x411626, decrypted string: <Arguments><#PARAMS#></Arguments>
org_addr: 0x411661, decrypted string: </Exec>
org_addr: 0x41169c, decrypted string: </Actions>
org_addr: 0x4116d7, decrypted string: </Task>
org_addr: 0x411729, decrypted string: <#PROGRAM#>
org_addr: 0x41176f, decrypted string: <#PARAMS#>
org_addr: 0x411833, decrypted string: <Triggers>
org_addr: 0x411854, decrypted string: <CalendarTrigger>
org_addr: 0x411899, decrypted string: <Repetition>
org_addr: 0x4118ca, decrypted string: <Interval>PT
org_addr: 0x4118f3, decrypted string: M</Interval>
org_addr: 0x411924, decrypted string: <Duration>P1D</Duration>
org_addr: 0x411955, decrypted string: <StopAtDurationEnd>false</StopAtDurationEnd>
org_addr: 0x411986, decrypted string: </Repetition>
org_addr: 0x4119ab, decrypted string: <StartBoundary><#YEAR#>-<#MONTH#>-
<#DAY#>T<#HOUR#>:<#MI
org_addr: 0x4119dc, decrypted string: <Enabled>true</Enabled>
org_addr: 0x411a17, decrypted string: <ScheduleByDay>
org_addr: 0x411a4e, decrypted string: <DaysInterval>1</DaysInterval>
org_addr: 0x411a88, decrypted string: </ScheduleByDay>
org_addr: 0x411ac5, decrypted string: </CalendarTrigger>
org_addr: 0x411b02, decrypted string: </Triggers>
org_addr: 0x411c13, decrypted string: <#HOUR#>
org_addr: 0x411c5d, decrypted string: <#MIN#>
org_addr: 0x411ca7, decrypted string: <#SEC#>
org_addr: 0x411cf1, decrypted string: <#YEAR#>
org_addr: 0x411d3b, decrypted string: <#MONTH#>
org_addr: 0x411d85, decrypted string: <#DAY#>
org_addr: 0x411de6, decrypted string: <#TRIGGERS#>
org_addr: 0x411e94, decrypted string: SYSTEM
org_addr: 0x411f7a, decrypted string: Tasks\
org_addr: 0x411fd5, decrypted string: *.job
org_addr: 0x412461, decrypted string: /interactive
```

```
org_addr: 0x4124af, decrypted string: at.exe
org_addr: 0x412551, decrypted string: Tasks\
org_addr: 0x4125a8, decrypted string: AT
org_addr: 0x4125d3, decrypted string: .job
org_addr: 0x41292f, decrypted string: .xml
org_addr: 0x41296e, decrypted string: /create /F /tn
org_addr: 0x412992, decrypted string: " /xml "
org_addr: 0x4129c7, decrypted string: schtasks.exe
org_addr: 0x412a25, decrypted string: /create /F /tn
org_addr: 0x412a52, decrypted string: " /tr "
org_addr: 0x412a97, decrypted string: /sc DAILY /ST
org_addr: 0x412aea, decrypted string: /RU SYSTEM
org_addr: 0x412b29, decrypted string: /IT
org_addr: 0x412b62, decrypted string: schtasks.exe
org_addr: 0x412d34, decrypted string: /query /xml
org_addr: 0x412d51, decrypted string: schtasks.exe
org_addr: 0x412d9c, decrypted string: </Task>
org_addr: 0x412e04, decrypted string: </Command>
org_addr: 0x412e21, decrypted string: <Command>
org_addr: 0x412ea5, decrypted string: /delete /F /TN "
org_addr: 0x412eda, decrypted string: schtasks.exe
org_addr: 0x412f28, decrypted string: </Task>
org_addr: 0x413074, decrypted string: SHGetSpecialFolderPathW
org_addr: 0x413091, decrypted string: shell32.dll
org_addr: 0x413c5a, decrypted string:
SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\
org_addr: 0x413d72, decrypted string: SOFTWARE\Microsoft\Windows\CurrentVersion\
org_addr: 0x413d8e, decrypted string: Uninstall
org_addr: 0x413e1b, decrypted string: DisplayIcon
org_addr: 0x413e6a, decrypted string: DisplayName
org_addr: 0x413eb9, decrypted string: UninstallString
org_addr: 0x413f20, decrypted string: Publisher
org_addr: 0x414108, decrypted string: cmd.exe /Q /D /c del "
org_addr: 0x414178, decrypted string:
SOFTWARE\Microsoft\Windows\CurrentVersion\RunOnce
org_addr: 0x4141ad, decrypted string: cmd.exe /Q /D /c del "
org_addr: 0x41421d, decrypted string:
SOFTWARE\Microsoft\Windows\CurrentVersion\RunOnce
org_addr: 0x414636, decrypted string: GetPwrCapabilities
org_addr: 0x414824, decrypted string: open
org_addr: 0x4163d5, decrypted string: 000000000000
org_addr: 0x416449, decrypted string: 000000
org_addr: 0x4164cd, decrypted string: FFFFFFFF
org_addr: 0x4169f5, decrypted string: dir
org_addr: 0x416a16, decrypted string: /S "
org_addr: 0x416a35, decrypted string: *.*
org_addr: 0x416a6b, decrypted string: TIMEOUT
org_addr: 0x416bc2, decrypted string: cmd.exe
org_addr: 0x416bf3, decrypted string: /d /c
org_addr: 0x416c1c, decrypted string: & cmd /d /c del
org_addr: 0x416c71, decrypted string: CreateProcessA
org_addr: 0x416c9a, decrypted string: kernel32.dll
org_addr: 0x416dad, decrypted string: cmd.exe
org_addr: 0x416dde, decrypted string: /d /c
org_addr: 0x416e0d, decrypted string: & cmd /d /c rd /S /Q
```

```
org_addr: 0x416e6e, decrypted string: CreateProcessA
org_addr: 0x416e97, decrypted string: kernel32.dll
org_addr: 0x4170a7, decrypted string: MachineGuid
org_addr: 0x4170cf, decrypted string: Software\Microsoft\Cryptography
org_addr: 0x417116, decrypted string: MachineGuid
org_addr: 0x41713e, decrypted string: Software\Microsoft\Cryptography
org_addr: 0x417253, decrypted string: user32.dll
org_addr: 0x41727f, decrypted string: GetLastInputInfo
org_addr: 0x41734c, decrypted string: GetUserDefaultUILanguage
org_addr: 0x417369, decrypted string: kernel32.dll
org_addr: 0x417a58, decrypted string: .ini
org_addr: 0x417ab4, decrypted string: .txt
org_addr: 0x417ad7, decrypted string: .txt
org_addr: 0x4182d5, decrypted string: cmd.exe
org_addr: 0x418376, decrypted string: 1.dat
org_addr: 0x4183a9, decrypted string: 2.dat
org_addr: 0x418448, decrypted string: /d /c
org_addr: 0x4184a3, decrypted string: cmd /d /c copy /B /Y /V
org_addr: 0x4184fd, decrypted string: & cmd /d /c del "
org_addr: 0x418528, decrypted string: " & cmd /d /c del "
org_addr: 0x41857b, decrypted string: CreateProcessA
org_addr: 0x4185a4, decrypted string: kernel32.dll
org_addr: 0x41878f, decrypted string: psapi.dll
org_addr: 0x4187ce, decrypted string: GetModuleFileNameExA
org_addr: 0x4187f6, decrypted string: EnumProcessModules
org_addr: 0x418d30, decrypted string: mnprstghklbcdf
org_addr: 0x418d56, decrypted string: iuaaooee
org_addr: 0x41a1e7, decrypted string: kernel32.dll
org_addr: 0x41a20d, decrypted string: FreeLibrary
org_addr: 0x41a237, decrypted string: EnterCriticalSection
org_addr: 0x41a261, decrypted string: LeaveCriticalSection
org_addr: 0x41a28b, decrypted string: WaitForSingleObject
org_addr: 0x41a2b5, decrypted string: CloseHandle
org_addr: 0x41a2df, decrypted string: GetExitCodeProcess
org_addr: 0x41a309, decrypted string: GetSystemDirectoryW
org_addr: 0x41a333, decrypted string: GetModuleFileNameW
org_addr: 0x41a35d, decrypted string: DeleteFileA
org_addr: 0x41a387, decrypted string: CreateFileW
org_addr: 0x41a3b1, decrypted string: CreateFileA
org_addr: 0x41a3db, decrypted string: ReadFile
org_addr: 0x41a405, decrypted string: WriteFile
org_addr: 0x41a42f, decrypted string: SetFilePointer
org_addr: 0x41a459, decrypted string: MoveFileW
org_addr: 0x41a48c, decrypted string: MoveFileA
org_addr: 0x41a4c2, decrypted string: FindFirstFileW
org_addr: 0x41a4f8, decrypted string: FindNextFileW
org_addr: 0x41a52e, decrypted string: FindClose
org_addr: 0x41a564, decrypted string: CreateProcessW
org_addr: 0x41a59a, decrypted string: CreateProcessA
org_addr: 0x41a5d0, decrypted string: GetStartupInfoA
org_addr: 0x41a606, decrypted string: CopyFileW
org_addr: 0x41a63c, decrypted string: GetTempPathA
org_addr: 0x41a6cf, decrypted string: PeekNamedPipe
org_addr: 0x41a705, decrypted string: CreatePipe
org_addr: 0x41a73b, decrypted string: GetFileAttributesW
```

```
org_addr: 0x41a771, decrypted string: GetShortPathNameA
org_addr: 0x41a7a7, decrypted string: GetShortPathNameW
org_addr: 0x41a7dd, decrypted string: GetComputerNameA
org_addr: 0x41a813, decrypted string: CreateDirectoryA
org_addr: 0x41a849, decrypted string: CreateDirectoryW
org_addr: 0x41a87f, decrypted string: RemoveDirectoryA
org_addr: 0x41a8b5, decrypted string: GetCurrentProcess
org_addr: 0x41a8eb, decrypted string: SetFileTime
org_addr: 0x41a921, decrypted string: GetVolumeInformationA
org_addr: 0x41a957, decrypted string: GetTickCount
org_addr: 0x41a98d, decrypted string: ExitThread
org_addr: 0x41a9c3, decrypted string: CreateThread
org_addr: 0x41a9f9, decrypted string: ResumeThread
org_addr: 0x41aa2f, decrypted string: GetLocalTime
org_addr: 0x41aa65, decrypted string: OpenProcess
org_addr: 0x41aa9b, decrypted string: GetSystemPowerStatus
org_addr: 0x41aad1, decrypted string: GetWindowsDirectoryW
org_addr: 0x41ab07, decrypted string: SetFileAttributesW
org_addr: 0x41ab3d, decrypted string: Sleep
org_addr: 0x41ab73, decrypted string: TerminateProcess
org_addr: 0x41ac02, decrypted string: advapi32.dll
org_addr: 0x41ac28, decrypted string: RegCloseKey
org_addr: 0x41ac52, decrypted string: RegOpenKeyExW
org_addr: 0x41ac7c, decrypted string: RegDeleteKeyW
org_addr: 0x41aca6, decrypted string: RegCreateKeyExW
org_addr: 0x41acd0, decrypted string: RegSetValueExW
org_addr: 0x41acfa, decrypted string: RegQueryValueExW
org_addr: 0x41ad24, decrypted string: RegDeleteValueW
org_addr: 0x41ad4e, decrypted string: RegEnumValueW
org_addr: 0x41ad78, decrypted string: RegEnumKeyW
org_addr: 0x41ae05, decrypted string: user32.dll
org_addr: 0x41ae2b, decrypted string: GetWindowThreadProcessId
org_addr: 0x41ae55, decrypted string: EnumWindows
org_addr: 0x41ae7f, decrypted string: WaitForInputIdle
org_addr: 0x41afaa, decrypted string: kernel32.dll
org_addr: 0x41afeb, decrypted string: LoadLibraryA
org_addr: 0x41b01c, decrypted string: GetProcAddress
```

End.

m4n0w4r