

Analyse Malware

Groupe :

- Armand Bouveron
- Victor de Moura Netto
- Wenjia Tang

Malware :

- Malo Damien
- Louis Lafond
- Nicolas Cipolla

Table des matières

01

Introduction

02

Analyse

03

Conclusion

01

Introduction

Outils utilisés

Outils utilisés



IDA

Debug + Mémoire



Ghidra

Interpréteur en C



CMD

Invite de commandes

02

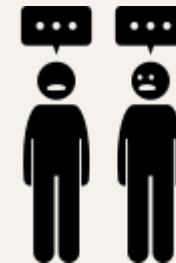
Analyse

Procédés, pièges, et leurres

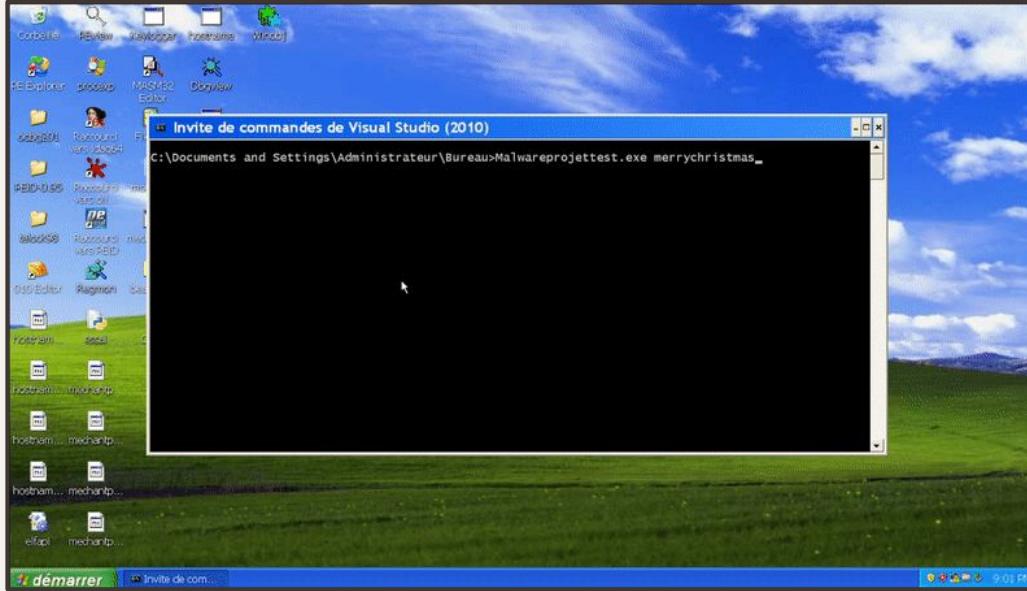
Echo (+ vérification input)

```
C:\Documents and Settings\Administrateur\Bureau>Malwareprojettest.exe ABCDEFABCDefabcd012345678901  
ABCDEFABCDefabcd012345678901
```

- Respect des consignes
- [a-f, A-F, 0-9] sur 32 caractères max
- Echo de la chaîne de caractères



Piège



taskkill -f -im svchost.exe

start cmd.exe | start cmd.exe

Strings

0041a030 abcdef123456789ABCDEF0BCA3254Ae

0041b39c exit

0041a22c BrAvoNi
004187b8 c'est le bon

00418eb8 f:\dd\vctools\crt_bld\self_x86\crt\src\crtexe.c
00419278 f:\dd\vctools\crt_bld\self_x86\crt\src\intel\fp8.c

0041b336 CheckRemoteDebuggerPresent
0041a24c CHeh
0041b3ae clock

004187a8 mdp_final

0041b368 IsDebuggerPresent

0041a1fc FUCKYOU
00414597 gauloise

0041a258 pErDU
0041b3b6 printf

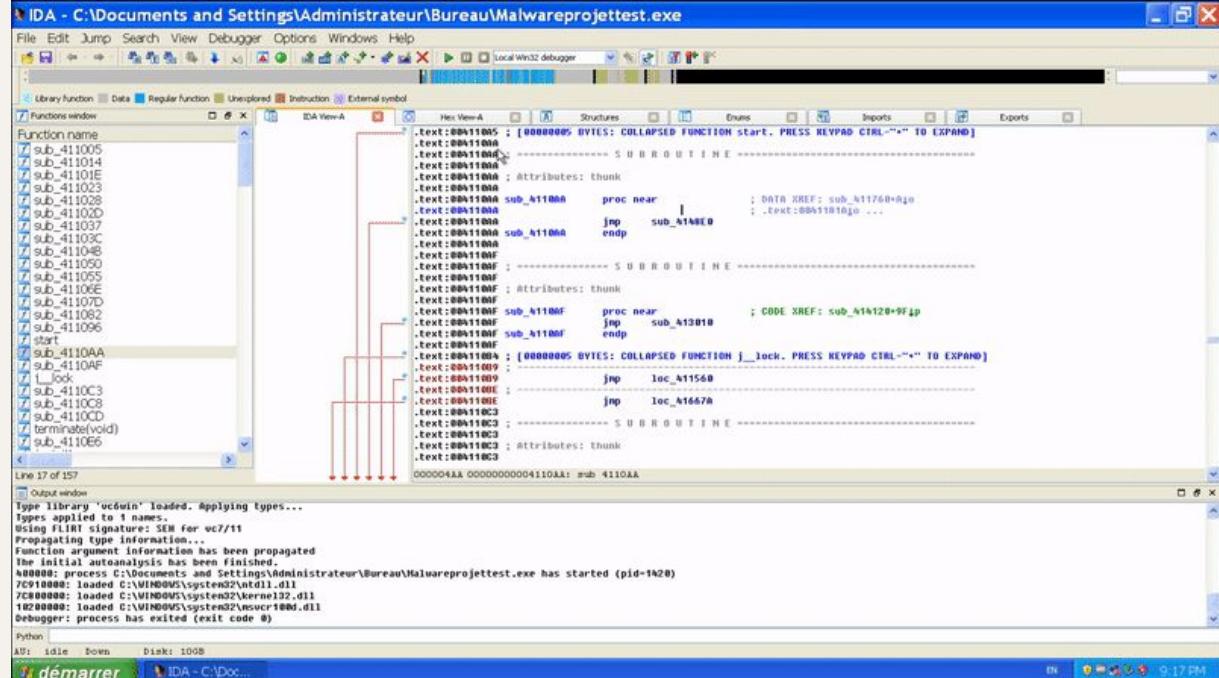
0041a20c SAyHEllo!?

00418778 taskkill -f -im svchost.exe

00418750 start cmd.exe | start cmd.exe

0041a264 XYLO
00419444 Z:\SharedFolder\VMmalware\Malwareprojettest\Debug\Malwareprojettest.pdb

Debug



- IsDebuggerPresent
- CheckRemoteDebuggerPresent

Offuscation

- Variables inutiles
- Fonctions inutiles

```
puVar5 = local_118;
for (iVar4 = 0x45; iVar4 != 0; iVar4 = iVar4 + -1) {
    *puVar5 = 0xffffffff;
    puVar5 = puVar5 + 1;
}
```

```
uint uVar1;
BOOL BVar2;
int iVar3;
undefined4 *puVar4;
char *unaff_retaddr;
undefined4 local_13c [49];
int local_78;
uint local_6c;
undefined4 local_60;
undefined4 local_54;
undefined4 local_48;
int local_3c;
char local_30 [4];
undefined local_2c;
undefined local_2b;
undefined local_2a;
undefined local_29;
undefined local_28;
undefined local_27;
DWORD local_1c [3];
```

Leurres

0041a030

abcdef123456789ABCDEF0BCA3254Ae

0041A026	4E 00 01 00 07 00 73 01 00 00 61 00 18 41 73 00 N.....S..À..AS.
0041A036	29 00 78 00 65 00 52 00 41 00 66 00 69 00 6E 00).x.e.R.A.F.i.n.
0041A046	72 00 76 00 57 00 7D 00 4F 00 74 00 7B 00 46 00 r.u.W}.0.t.{.F.
0041A056	2E 00 46 00 72 00 38 00 02 00 7A 00 5C 00 7C 00 ..F.r.B..z.\ .
0041A066	5C 00 34 00 24 00 38 00 53 00 65 00 1B 41 72 00 \.4.\$.;S.e..Ar.
0041A076	7E 00 23 00 62 00 09 00 14 00 66 00 71 00 34 00 ~.#.b.....q.4.
0041A086	76 00 21 00 06 00 28 00 61 00 00 00 5A 00 60 00 v.t....(....Z..
0041A096	53 00 30 00 26 00 10 00 27 00 10 00 59 00 28 00 S.Ø.ë....'Y.Ø.
0041A0A6	0B 00 32 00 06 00 0F 00 53 00 00 00 1E 00 11 00 ..2....S.....
0041A0B6	A7 FF 73 0E 79 00 99 FF 00 00 98 FF 8D FF B0 FF 9 s.y.Ø ...
0041A0C6	7C 00 10 00 DD FF 7D 00 F9 FF 1E 00 F8 FF 18 00 ...; >....
0041A0D6	00 00 6A 00 4A 00 B3 FF A5 FF 73 02 2A 00 1E 00 ..j.J.; N.s.*...
0041A0E6	6A 00 8E FF B0 FF 64 00 73 04 8A FF DB FF 74 00 j.À ; d.s.é ; t.
0041A0F6	A7 FF 19 00 AE FF 7E 00 7A 00 5E 00 B0 FF B7 FF e ..« ~z. .; à
0041A106	73 0D DA FF 64 00 AA FF AC FF 61 00 44 00 DF FF s.+ d.- % a.D.

Tableau destiné à nous faire croire que type A car pas de véritable vérification

```
while( true ) {
    if (((short *) (param_1 + local_3c * 2) == 0) || (0x20 < local_3c)) break;
    u_abcdef123456789ABCDEF0BCA3254Ae_0041a030[local_3c] = *(wchar_t *) (param_1 + local_3c * 2);
    local_3c = local_3c + 1;
}
```

03

Conclusion

Type du malware

Type B

Pas de vérification, mais de nombreux leurres...

Merci pour votre
attention !

