

# Analyse Malware

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# 01

# Introduction

Outils utilisés

# Outils utilisés



**IDA**

Debug + Mémoire



**Ghidra**

Interpréteur en C



**CMD**

Invite de commandes



# 02

# Analyse

Procédés, pièges, et leurres

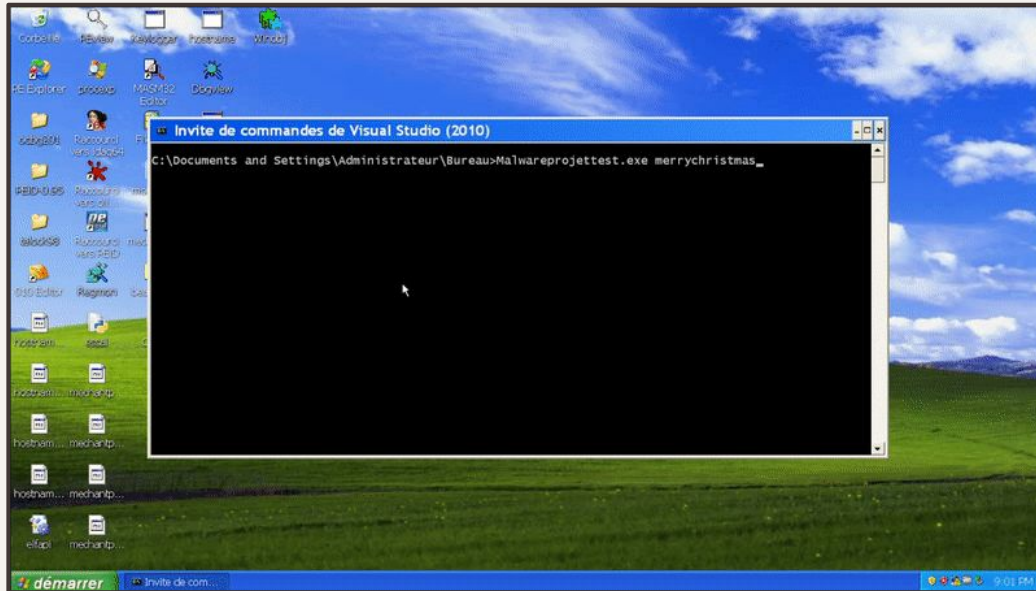
# Echo (+ vérification input)

```
C:\Documents and Settings\Administrateur\Bureau>Malwareprojettest.exe ABCDEFABCDabcdefabcd012345678901  
ABCDEFABCDabcdefabcd012345678901
```

- 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

0041a22c    BrAv0Ni  
004187b8    c'est le bon

0041b39c    exit

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!?

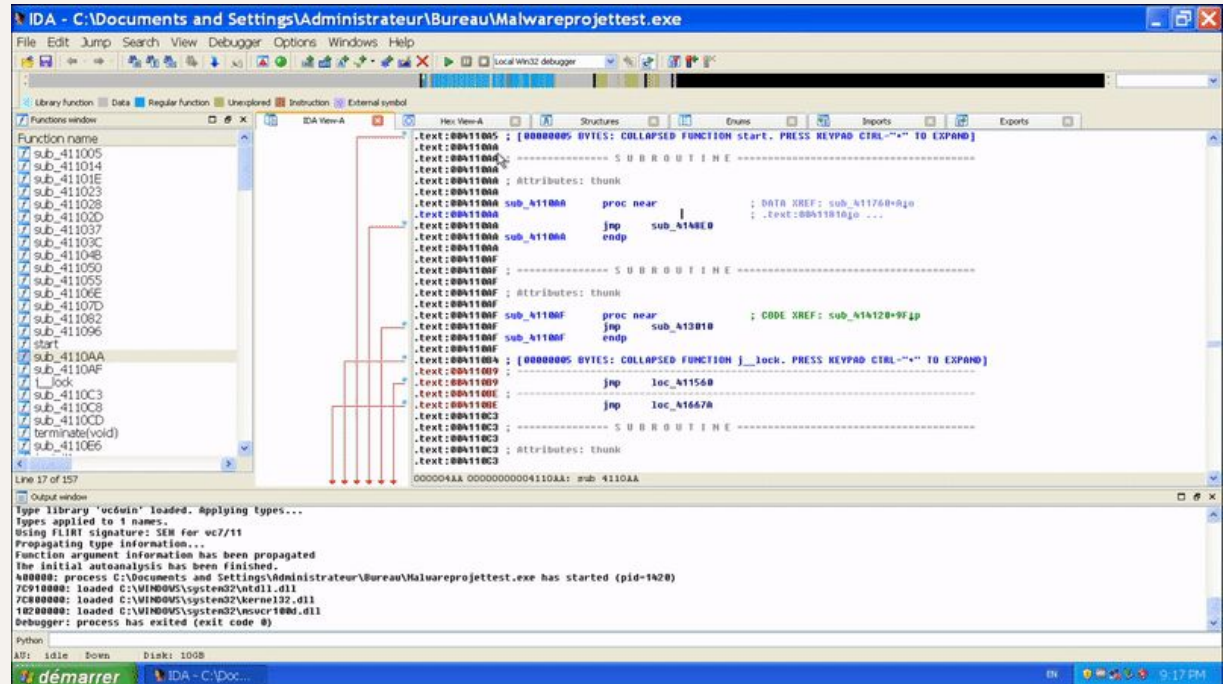
00418778    taskkill -f -im svchost.exe

00418750    start cmd.exe | start cmd.exe

0041a264    XYLIO  
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 0E 1B 41 73 00	N.....s...A.s.
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 70 00 4F 00 74 00 78 00 46 00	r.v.W.).0.t.{.F.
0041a056	2E 00 46 00 72 00 30 00 02 00 7A 00 5C 00 7C 00	..F.r.0...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 60 00 71 00 34 00	~.#.b.....q.4.
0041a086	76 00 21 00 06 00 28 00 01 00 00 00 5A 00 60 00	v.!....(. ....Z. \.
0041a096	53 00 30 00 26 00 10 00 27 00 10 00 59 00 28 00	S.0.&....'....V.(.
0041a0A6	08 00 32 00 06 00 0F 00 53 00 0A 00 1E 00 11 00	..2.....S.....
0041a0B6	A7 FF 73 0E 79 00 99 FF 00 00 90 FF 8D FF 80 FF	0 s.y.ü ... - !
0041a0C6	7C 00 10 00 DD FF 7D 00 F9 FF 1E 00 F0 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 80 FF 64 00 73 04 8A FF 0B FF 74 00	j.Ä ! d.s.è ! t.
0041a0F6	A7 FF 19 00 AE FF 7E 00 7A 00 5E 00 80 FF B7 FF	0 ...«~.z.~. ! â
0041a106	73 00 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

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# Type B

Pas de vérification, mais de nombreux leurres...

# Merci pour votre attention !

