

RANSOMWARE

ARCHITECTURE



Malware

Malicious + Software

How it spreads

Virus

Worm

Trojan

What it does

Ransomware

Spyware

Adware

Backdoor

Cryptojacking

Where it entered

Trojanized Software

Phishing Email

Removable Media

MitM

Drive-by Download

Supply Chain Attack

Virus

```
C
#include <stdio.h>

2
3 int main() {
4     printf("Hello World!\n");
5     return 0;
6 }
7
```

```
~/workspace/infection_test $ gcc hello.c -o hello
~/workspace/infection_test $ ./hello
Hello World!
~/workspace/infection_test $ ls -l
-rw-r--r-- 1 lignah lignah 76 12월 28일 18:54 hello.c
-rw-r--r-- 1 lignah lignah 3789 12월 28일 18:54 virus.c
-rwxr-xr-x 1 lignah lignah 16432 12월 28일 18:56 virus
-rwxr-xr-x 1 lignah lignah 15416 12월 28일 18:55 hello
```

```
~/workspace/infection_test $ ./virus
```

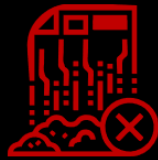
```
[*] Directory Scanning...
```

```
[+] Infected: hello (New EP: 0x1161)
```

```
~/workspace/infection_test $ ./hello1
```

```
HACKED
```

```
Hello World!
```



Sys Destruction



Data leakage

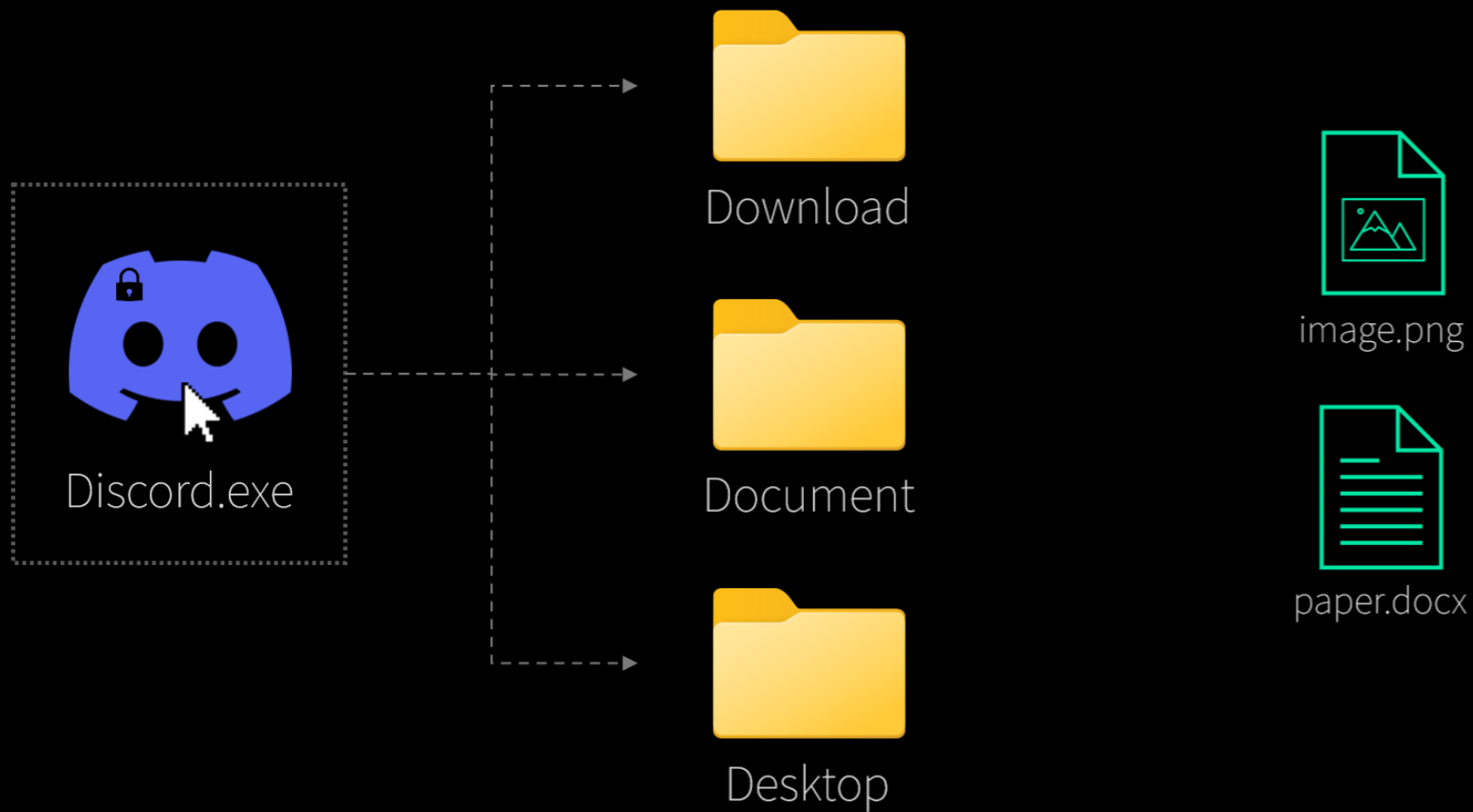


Cryptojacking

Software



Ransomware





File structure

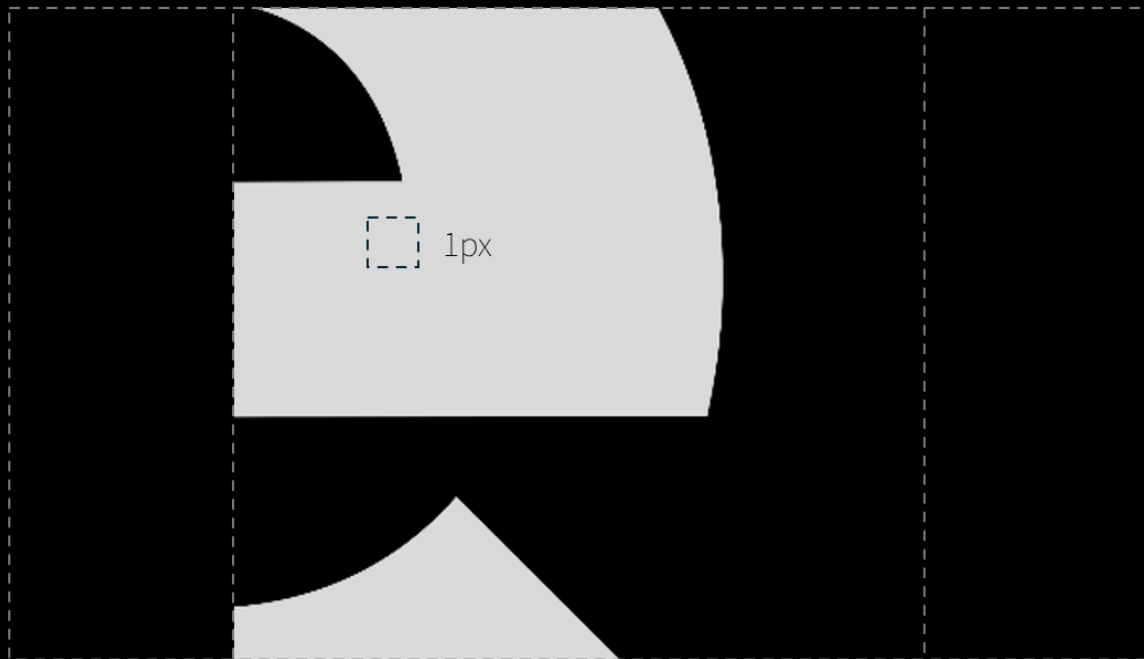


image.png



paper.docx

Offset (h)	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	Decoded text
00000000	89	50	4E	47	0D	0A	1A	0A	00	00	00	0D	49	48	44	52	%PNG.....IHDR
00000010	00	00	00	01	00	00	00	01	08	02	00	00	00	90	77	53wS
00000020	DE	00	00	00	01	73	52	47	42	00	AE	CE	1C	E9	00	00	p....sRGB.@Î.é..
00000030	00	04	67	41	4D	41	00	00	B1	8F	0B	FC	61	05	00	00	..gAMA..±...üa...
00000040	00	09	70	48	59	73	00	00	0E	C3	00	00	0E	C3	01	C7	..pHYs...Ã...Ã.Ç
00000050	6F	A8	64	00	00	00	0C	49	44	41	54	18	57	63	F8	FF	o"d....IDAT.Wcøÿ
00000060	FF	3F	00	05	FE	02	FE	A7	35	81	84	00	00	00	00	49	ÿ?...p.p\$5..,....I
00000070	45	4E	44	AE	42	60	82										END@B`,



age.png

Offset (h)	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	Decoded text
00000000	89	50	4E	47	0D	0A	1A	0A	00	00	00	0D	49	48	44	52	%PNG.....IHDR
00000010	00	00	00	01	00	00	00	01	08	02	00	00	00	90	77	53wS
00000020	DE	00	00	00	01	73	52	47	42	00	AE	CE	1C	E9	00	00	p....sRGB.@Î.é..
00000030	00	04	67	41	4D	41	00	00	B1	8F	0B	FC	61	05	00	00	..gAMA..±...üa...
00000040	00	09	70	48	59	73	00	00	0E	C3	00	00	0E	C3	01	C7	..pHYs...Ã...Ã.Ç
00000050	6F	A8	64	00	00	00	0C	49	44	41	54	18	57	63	60	60	o"d....IDAT.Wc`
00000060	60	00	00	00	04	00	01	5C	CD	FF	69	00	00	00	00	49	`.....\ÿi....I
00000070	45	4E	44	AE	42	60	82										END@B`,



per.docx

Offset (h)	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	Decoded text
00000000	50	4B	03	04	14	00	06	00	08	00	00	00	21	00	DF	A4	PK.....!.ß
00000010	D2	6C	5A	01	00	00	20	05	00	00	13	00	08	02	5B	43	0lz... ..[C
00000020	6F	6E	74	65	6E	74	5F	54	79	70	65	73	5D	2E	78	6D	ontent.
00000030	6C	20	A2	04	02	28	A0	00	02	00	00	00	00	00	00	00	l ¢..(.....
00000040	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
00000050	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
00000060	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
00000070	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00



age.png



paper.docx



Biyard_resume.pdf



Mario.exe



Ps_cracked.exe



Starcraft.exe

Server



[TCP/IP Socket]

Client



ALL YOUR DOCUMENTS .DOCX FILES
AND OTHER IMPORTANT FILES HAVE BEEN ENCRYPTED!

your files are NOT DAMAGED! Your files are modified only.
this modification is reversible.

WARNING!

any attempts to restore your files with the third-party
software will be fatal for your files!

WARNING!

the only 1 way decrypt your files is to
receive the private key and decryption program.

find readme.html file in each crypted
directory and follow instructions.

