Technical Analysis of Code-Signed "Blister" Malware Campaign (Part 1)

Cloudsek.com/technical-analysis-of-code-signed-blister-malware-campaign-part-1/ Anandeshwar Unnikrishnan

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A new malware, dubbed "Blister," by the Elastic Security team that identified it, is leveraging valid code-signing certificates in Windows systems, to avoid detection by antivirus software. The malware is named after one of its payloads, Blister, which further deploys second-stage payloads.

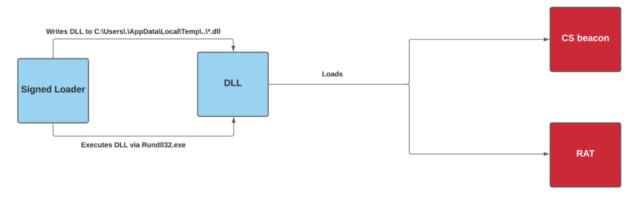
The threat actors orchestrating the Blister campaigns have been active since 15 September 2021, and have been using code-signing certificates that were validated on 23 August 2021. These certificates were issued by Sectigo to Blist LLC's mail.ru email address. It is notable that mail.ru is a widely used Russian email service provider.

The malware masquerades malicious components as genuine executable files, due to which it has a low detection rate. Apart from using codesigning certificates, the threat actors are also leveraging other techniques, such as binding Blister to a legitimate library on the infected system, to stay under the radar.

Modus Operandi of the Blister Campaign

Threat actors are known to use code-signing to circumvent basic static security checks to compromise the victim systems. The Blister malware is no different in that it uses a Sectigo issued certificate to make the loader malware program look genuine to security products. It then deploys a Remote Access Trojan (RAT) on the target system to gain unauthorized access.

A .*dll* file is used as a second stage payload to execute the encoded RAT/ CobaltStrike beacon. Since the .*dll* file has no malicious traces there have been very few detections on VirusTotal. However, the loader uses *Rundll32.exe* to execute the *LaunchColorCpl* function exported by the malicious .*dll* file.



Overview of the Blister malware campaign

Leveraging Code-Signing Certificates to Avoid Detection

The below image contains the details of the certificate to an entity called "Blist LLC". It is common for cybercriminals to either steal codesigning certificates from compromised targets, or to use a front company to obtain the certificate, to sign the malware with.

Sigr	ner information –			
Na	me:	Blist LLC		
Em	ail:	blist.kazan@bk.ru		Certificate issued to Blist LLC
Sig	ning time:	11 November 2021 11:02:00		
		View Certifica	e	

Sectigo has since revoked the certificate issued to the binary.

Digital Signature Details

? X

G	eneral Advanced			
1	Signature details:			
	Field	Value		
	Version	V2		
	Issuer	Sectigo Public Code Signing CA R36, Sec		
	Serial number	2f4a25d52b16eb4c9dfe71ebbd8121bb		
	Digest algorithm	sha 1		
	Digest encryption algorithm	RSA		
	Authenticated attributes			
	Content Type	06 0a 2b 06 01 04 01 82 37 02 01 04		Certificate issued by Sectigo
	Message Digest	04 14 04 d0 88 38 68 36 c8 a7 56 9a 65		
	Unauthenticated attributes			
	Counter Sign	30 82 02 19 02 01 01 30 81 86 30 72 31		
	/alue:]	
	CN = Sectigo Public Code Sig O = Sectigo Limited C = GB	ning CA R36		

First Stage of Infection

Overview of the Loader

- The loader writes a malicious .dll file in a directory created inside the user Temp folder.
- In one of the analysed samples, the malware created a folder named "goalgames" and inside it the loader dumped holorui.dll.
- The .dll houses the code for deploying the RAT to gain unauthorized access to the infected system.

sub eax,edx movsxd rcx,eax	rcx:L"C:\\Users\\je]lo\\AppData\\Loca]\\Temp\\goalgames"	
lea rax, gword ptr ds: [14000D190]	rax:L"C:\\Users\\jello\\AppData\\Local\\Temp\\goalgames"	
mov rdx,rcx	rcx:L"C:\\Users\\jello\\AppData\\Local\\Temp\\goalgames"	
sar rcx,4 shl rcx.B	<pre>rcx:L"C:\\Users\\jello\\AppData\\Local\\Temp\\goalgames" rcx:L"C:\\Users\\jello\\AppData\\Local\\Temp\\goalgames"</pre>	
and edx.F		The loader wr
add rcx,rax	<pre>rcx:L"C:\\Users\\jello\\AppData\\Local\\Temp\\goalgames", n</pre>	
mov rax,qword ptr ds:[14000D188]	rax:L"C:\\Users\\jello\\AppData\\Local\\Temp\\goalgames"	
<pre>mov edx,dword ptr ds:[rax+rdx*4] call 7b9091c41525f1721b12dcef601117737ea99</pre>		
mov rdi,rax	rax:L"C:\\Users\\jello\\AppData\\Local\\Temp\\goalgames"	
test ebx,ebx		

The loader writes a .dll file in the user

Temp folder

Step by Step Working of the Loader

The Win32 API createDirectoryW is used to create a folder called "goalgames" in the path: C:\Users\<user>\AppData\Local\Temp directory. as shown below.

0000001400079BC	48:895C24 08	mov qword ptr ss:[rsp+8],rbx	1
00000001400079C1	57	push rdi	
00000001400079C2	48:83EC 30	sub rsp,30	
00000001400079C6	3 3 D B	xor ebx ebx	
00000001400079C8	4C:8D4C24 58	lea r9,qword ptr ss:[rsp+58]	
00000001400079CD	48:895C24 20	mov qword ptr ss:[rsp+20],rbx	
00000001400079D2	41:8BF8	mov edi,r8d	Usir
0000001400079D5	FF15 0D270000	call qword ptr ds:[<&WriteFile>]	
00000001400079DB	85C0	test eax,eax	
- 00000001400079DD	✓ 74 0B	je 7b909ic41525f1721b12dcef601117737ea990cee17a8eecf81	
00000001400079DF	3B7C24 58	cmp edi,dword ptr ss:[rsp+58]	
- 00000001400079E3	✓ 75 05	jne 7b9091c41525f1721b12dcef601117737ea990cee17a8eecf8	
00000001400079E5	BB 01000000	mov ebx,1	
	0000001400079C1 0000001400079C2 0000001400079C2 0000001400079C2 0000001400079C2 0000001400079C2 0000001400079C2 0000001400079D5 0000001400079D5 0000001400079D5 0000001400079D5	00000001400079C1 57 00000001400079C2 48:83EC 30 00000001400079C6 33DB 00000001400079C6 4C:8D4C24 58 00000001400079C0 48:895C24 20 00000001400079C5 41:8BF8 00000001400079D5 FF15 00270000 00000001400079D5 FF15 00270000 00000001400079D5 74 08 00000001400079D5 387C24 58 00000001400079D5 75 05	00000001400079C1 57 push rdi 00000001400079C2 48:83EC 30 sub rsp.30 00000001400079C6 33DB xub rsp.30 00000001400079C6 48:83EC 42 mov qword ptr 5s:[rsp+58] 00000001400079C0 48:895C24 20 mov qword ptr 5s:[rsp+20],rbx 00000001400079C0 41:88F8 mov qword ptr ds:[<&writeFile>] 0000000140007505 FFIS 00270000 call qword ptr ds:[<&writeFile>] 0000000140007505 FFIS 00270000 call qword ptr ds:[< test eax, eax 0000000140007505 74 08 je 70901c41525f1721b12dcef601117737ea990cee17a8eecf81 0000000140007505 3B7C24 58 cmp edi,dword ptr ss:[rsp+58] 0000000140007305 3B7C24 58 cmp edi,dword ptr ss:[rsp+58] 0000000140007305 7 05 jm c7b901c41525f1721b12dcef601117737ea990cee17a8eecf80

Jsing Win32 API createDirectoryW to

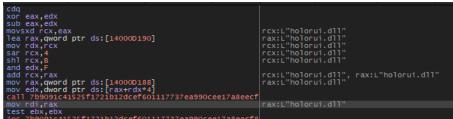
create a folder in the user Temp folder

Before dumping the .dll, the loader sets the working directory to C:\Users\<user>\AppData\Local\Temp\goalgames via Win32 API SetCurrentDirectoryW.

0000000140001917 000000014000191A 0000000140001921 0000000140001926	48:88D7 48:8D0D DF160400 E8 02620000 48:88CF FF15 61890000	<pre>mov rdx,rdi lea rcx,qword ptr ds:[140043000] call 789091c41525f1721b12dcef601117737ea990cee17a8eecf mov rcx,rdi call qword ptr ds:[<&SetCurrentDirectorvw>]</pre>	rdi:L"C:\\Users\\j; rcx:L"C:\\Users\\j; rcx:L"C:\\Users\\j Using Win32 API
000000014000192F 0000000140001931 0000000140001937	85C0 0F85 AF1B0000 44:03FE	<pre>teax.eax jne 7b9091c41525f1721b12dcef601117737ea990cee17a8eecf8 add r14d.est</pre>	

SetCurrentDirectoryW to set the working directory

After setting the working directory, the malware resolves the filename for the .dll file to holorui.dll and stores it in the register RCX, to later pass it to Win32 API CreateFileW.



The malware resolves the filename for the .dll

file to holorui.dll

The file C:\Users\<user>\AppData\Local\Temp\goalgames\holorui.dll is created using the CreateFileW API.

00000001400078AF 00000001400078B3 00000001400078B6	894424 28 48:8BCE 895C24 20	<pre>itea rsd,qword ptr ds:[rcx+1] mov dword ptr ss:[rsp+28],eax mov rcx,rsi mov dword ptr ss:[rsp+20],ebx call qword ptr ds:[rs&preateFilew>]</pre>	rsi:L"C:\\Users\\j	holorui.dll created
00000001400078C5	48:885C24 50 48:887424 58 48:83C4 40	mov rbx,qword ptr šs:[rsp+50] mov rsi,qword ptr ss:[rsp+58] add rsp,40		

using CreateFileW API

Once the file is created, the malware starts writing the content to the file by iteratively transferring bytes from the .dll payload in the loader. The Win32 API WriteFile is used to write contents into holorui.dll.

_				
•	00000001400079BC	48:895C24 08	mov qword ptr ss:[rsp+8],rbx	
•	0000001400079C1	57	push rdi	
	0000001400079C2	48:83EC 30	sub rsp,30	
	0000001400079C6	33DB	xor ebx,ebx	
•	0000001400079C8	4C:8D4C24 58	lea r9,gword ptr ss:[rsp+58]	
	00000001400079CD	48:895C24 20	mov gword ptr ss:[rsp+20],rbx	
	0000001400079D2	41:8BF8	mov edi,r8d	Win32 API
$\rightarrow \bullet$	00000001400079D5	FF15 0D270000	call qword ptr ds:[<&WriteFile>]	
•	00000001400079DB	85C0	test eax,eax	
0	00000001400079DD	✓ 74 0B	je 7b909ic41525f1721b12dcef601117737ea990cee17a8eecf81	
	00000001400079DF	3B7C24 58	cmp edi,dword ptr ss:[rsp+58]	
0	00000001400079E3	✓ 75 05	jne 7b9091c41525f1721b12dcef601117737ea990cee17a8eecf8	3
•	00000001400079E5	BB 01000000	mov ebx,1	

I WriteFile used to write contents

into holorui.dll

The malicious .dll is embedded in the initialized data segment of the PE executable of the loader and the bytes are transferred into C:\Users\<user>\AppData\Local\Temp\goalgames\holorui.dll.

m,	Dump 1		Du	mp 2	2	1	, D	ump		Į	Ņ	Dum	p 4		i 111)	Dur	np 5		60	Watch 1	1	
Addr	ess		He	ĸ															ASC	п		
	00001400																					
	00001400																					
	00001400																					
0000	00001400 00001400	25620	00	100	84	00	00	84	00		21	00	00	40	CD	21	54	69		····+:		fi Th
	00001400																					
	00001400																					
0000	00001400	25660	GD	6F	64	65	2E	0D	0D	0A	24	00	00	00	00	00	00	00	mod	2\$		
	00001400																					
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	00001400																					
0000	00001400	25 6A0	07	6E	FF	A7	1F	16	7C	A7	07	6E	F8	A7	18	16	7C	A7	∣.ny	§•• §•	nø§.	••!§

Upon closing the handle to the holorui.dll file, written on to the disk in the Temp directory, the malware finishes delivering the second stage payload. Then the file handles are closed by the malware.

	0000000140001C8D	48:8BCB	mov rcx,rbx	
	000000140001C90	FF15 92850000	call gword ptr ds:[<&SetFileTime>]	
	000000140001C96	48:8BCB	mov rcx,rbx	File handles closed by the malware
	000000140001C99	FF15 81850000	call gword ptr ds:[<&CloseHandle>]	,
	0000000440004505	10.0000	and shand using the second sec	

The successful delivery of the malicious .dll can be confirmed by analyzing the interaction of the malware on the system.

Process Name	PID	Operation
37b9091c41525f1721b12d	3676	🐂 WriteFile
0 7b9091c41525f1721b12d	3676	🐂 Write File
D 7b9091c41525f1721b12d	3676	🐂 WriteFile
D 7b9091c41525f1721b12d	3676	🐂 WriteFile

Path		
C:\Users \illa \AppData \Local\Temp \goalgames \holorui.dll C:\Users \illa \AppData \Local\Temp \goalgames \holorui.dll C:\Users \illa \AppData \Local\Temp \goalgames \holorui.dll	Successful	delivery of the malicious .dll

C:\Users

Based on analysing multiple signed loader samples, we have enumerated following distinct directory and payload names used within different samples from the same campaign:

- C:\Users\<user>\AppData\Local\Temp\goalgames\holorui.dll
- C:\Users\<user>\AppData\Local\Temp\Framwork\axssig.dll
- C:\Users\<user>\AppData\Local\Temp\oarimgamings\holorui.dll
- C:\Users\<user>\AppData\Local\Temp\guirtsframworks\Pasade.dll

Note: The content inside the .dll is the same despite having different names

Second Stage of Infection

At the second stage of infection, the loader generates a command line to execute the function LaunchColorCpl exported from the .dll, via Rundll32.exe on the infected system.

rax:L"Rundll32.exe C:\\Users\\jello\\AppData\\Local\\Temp\\goalgames\\holorui.dll,LaunchColorCpl"

LaunchColorCpl

A new process is created with the above command line to spawn a Rundll32 process via CreateProcessW Win32 API.

-	000000014000758E	45:33C0	xon nsa, nsa	
•	000000140007591	49:8363 CO 00	and qword ptr ds:[r11-40],0	
•	0000000140007596	33C9	xor ecx,ecx	
•	0000000140007598	49:8363 B8 00	and qword ptr ds:[r11-48],0	
•	000000014000759D	C74424 28 00000004	mov dword ptr ss:[rsp+28],4000000	Spawning a
	00000001400075A5	836424 20 00	and dword ptr ss:[rsp+20],0	opumning u
$\rightarrow \circ$	00000001400075AA	FF15 002D0000	call qword ptr ds:[<&CreateProcessW>]	
•	00000001400075B0	85C0	test eax,eax	
r®	00000001400075B2	75 04	ine 7b9091c41525f1721b12dcef601117737ea990cee17a8eecf8	

Rundll32 process via CreateProcessW Win32 API

The newly spawned Rundll32.exe process is listed in the process listing on the infected machine.

	dll32.exe undll32.exe	2004 9104	0.06	936 kB 4.81 MB	DESKTOP-7S35NEG	Wi Wi	ndows host process (Rundli ndows host process (Rundli ndows host process (Rundli
process	Information Rundll32.exe C:\Users	(AppData \L	ocal\Temp\goalgames	Yholþrui.dll,Lau	unchColorCpl		× Command line confirmation for the newly spawned

process

The final payload is executed by the Rundll32.exe process.

Frame Number	Time Date Local Adjusted	Time Offset	Process Name	Source	Destination	Protocol Name
252	00:47:59 02-01-2022	797.1536354	rundll32.exe	DESKTOP-7S3	93.115.18.248	TCP
253	00:47:59 02-01-2022	797.1537574	rundll32.exe	DESKTOP-7S3	93.115.18.248	TCP
258	00:51:06 02-01-2022	984.8343785	rundll32.exe	DESKTOP-7S3	93.115.18.248	TCP
259	00:51:07 02-01-2022	985.2858651	rundll32.exe	DESKTOP-7S3	93.115.18.248	TCP
260	00:51:07 02-01-2022	985.8407156	rundll32.exe	DESKTOP-7S3	93.115.18.248	TCP
261	00:51:08 02-01-2022	986.2905016	rundll32.exe	DESKTOP-7S3	93.115.18.248	TCP
262	00:51:09 02-01-2022	987.8563559	rundll32.exe	DESKTOP-7S3	93.115.18.248	TCP
263	00:51:10 02-01-2022	988.3197376	rundll32.exe	DESKTOP-7S3	93.115.18.248	TCP
266	00:51:13 02-01-2022	991.8685226	rundll32.exe	DESKTOP-7S3	93.115.18.248	TCP
267	00:51:14 02-01-2022	992.3212904	rundll32.exe	DESKTOP-7S3	93.115.18.248	TCP
268	00:51:21 02-01-2022	999.8696087	rundll32.exe	DESKTOP-7S3	93.115.18.248	TCP
269	00:51:22 02-01-2022	1000.321	rundll32.exe	DESKTOP-7S3	93.115.18.248	TCP

Network activities between the infected host and the

attacker C2

In the part 2 of this article we will cover the internal working of the .dll payload in detail.

Indicators of Compromise (IoCs)

FileHash-MD5

e6404260b4e42b7aa75bb0a96627ed3a	304921a919ab5228687a4932bb66fab9
db8827d0d7b2addc05719e407216da14	1b33c1f232b2ed68ac108519caa2d35f
755f50457416aeb7fee95a67abfea9fe	1896e6b20128e85a9851b94753eabbdf
6f76505a91c91c29238f0ed70b369417	a91ba8f4a339a98fa94e810831e83d96
5a7dea7aa86ccd600f5a97e3b53f7338	b8c9c560c6970a877a7ad359f37811d7

3efcd76417a185e48da71e22d230c547

FileHash-SHA1

f8fa1ba14df6f8ab2b307ee0ce04054ea9d538c0	77b11cc7fc02f2ece71c380afbed82a39df9b8fa
f534e15bbc104cafab80f954ba30f12de87b0f48	72134bbf433c51d475412d16ff7abb4ce2b08110
d58e06727c551756cbee1fc6539929553a09878b	4800d1f8e6ebc489c6c8a1d3a1f99b8339cf0980
c039362e891b01040c20e75e16b02169c512aebd	21799d1d30344428697f3a186733b283a993ac16
bb69d5da32164813be5af29d31edc951a8f1f088	871e52778597185f98eb0a57127024bcd094cf07

FileHash-SHA256

fe7357d48906b68f094a81d19cc0ff93f56cc40454ac5f00e2e2d9c8ccdbc388	fa885e9ea1293552cb45a89e740426fa9c313225ff77ad1980dfe
f5104d0ead2f178711b1e23db3c16846de7d1a3ac04dbe09bacebb847775d76d	ed6910fd51d6373065a2f1d3580ad645f443bf0badc398aa7718
ed241c92f9bc969a160da2c4c0b006581fa54f9615646dd46467d24fe5526c7a	df8142e5cf897af65972041024ebe74c7915df0e18c6364c5fb9b
d54dfedda0efa36ed445d501845b61ab73c2102786be710ac19f697fc8d4ca5c	d0f934fd5d63a1524616bc13b51ce274539a8ead9b072e7f7fe1
cc31c124fc39025f5c3a410ed4108a56bb7c6e90b5819167a06800d02ef1f028	cb949ebe87c55c0ba6cf0525161e2e6670c1ae186ab83ce4604
ca09d9cd2f3cfcc06b33eff91d55602cb33a66ab3fd4f540b9212fce5ddae54a	c61d2ba1e001c137533cd7fb6b38fe71fee489d61dbcfea45c37c
c0f3b27ae4f7db457a86a38244225cca35aa0960eb6a685ed350e99a36c32b61	bee3210360c5d0939c5d38b7b9f0c232cf9fbf93b46a19e53930;
ba3a50930e7a144637faf88a98f2990a27532bfd20a93dc160eb2db4fbc17b58	afb77617a4ca637614c429440c78da438e190dd1ca24dc78483
af555d61becfcf0c13d4bc8ea7ab97dcdc6591f8c6bb892290898d28ebce1c5d	a486e836026e184f7d3f30eaa4308e2f0c381c070af1f525118a4
a34821b50aadee0dd85c382c43f44dae1e5fef0febf2f7aed6abf3f3e21f7994	9bccc1862e3e5a6c89524f2d76144d121d0ee95b1b8ba5d0ffca
96bf7bd5f405d3b4c9a71bcd1060395f28f2466fdb91cafc6e261a31d41eb37a	9472d4cb393256a62a466f6601014e5cb04a71f115499c320dcf
923b2f90749da76b997e1c7870ae3402aba875fdbdd64f79cbeba2f928884129	8e22cf159345852be585bc5a8e9af476b00bc91cdda98fd6a324
8ae2c205220c95f0f7e1f67030a9027822cc18e941b669e2a52a5dbb5af74bc9	8a414a40419e32282d33af3273ff73a596a7ac8738e9cdca6e7c
863228efa55b54a8d03a87bb602a2e418856e0028ae409357454a6303b128224	84a67f191a93ee827c4829498d2cb1d27bdd9e47e136dc6652a
81edf3a3b295b0189e54f79387e7df61250cc8eab4f1e8f42eb5042102df8f1f	7cd03b30cfeea07b5ea4c8976e6456cb65e09f6b8e7dcc688843
7b9091c41525f1721b12dcef601117737ea990cee17a8eecf81dcfb25ccb5a8f	6c6f808f9b19e1fab1c1b83dc99386f0ceee8593ddfd461ac047e
696f6274af4b9e8db4727269d43c83c350694bd1ef4bd5ccdc0806b1f014568a	56ca9ea3f7870561ed3c6387daf495404ed3827f212472501d25
5651e8a8e6f9c63c4c1162efadfcb4cdd9ad634c5e00a5ab03259fcdeaa225ac	516cac58a6bfec5b9c214b6bba0b724961148199d32fb42c01b
4fe551bcea5e07879ec84a7f1cea1036cfd0a3b03151403542cab6bd8541f8e5	44e5770751679f178f90ef7bd57e8e4ccfb6051767d8e906708c
3c7480998ade344b74e956f7d3a3f1a989aaf43446163a62f0a8ed34b0c010d0	359ffa33784cb357ddabc42be1dcb9854ddb113fd8d6caf3bf039
2d049f7658a8dccd930f7010b32ed1bc9a5cc0f8109b511ca2a77a2104301369	294c710f4074b37ade714c83b6b7bf722a46aef61c02ba6543de
25a0d6a839c4dc708dcdd1ef9395570cc86d54d4725b7daf56964017f66be3c1	216cb4f2caeaf59f297f72f7f271b084637e5087d59411ac77ddd:
1a10a07413115c254cb7a5c4f63ff525e64adfe8bb60acef946bb7656b7a2b3d	17ea84d547e97a030d2b02ac2eaa9763ffb4f96f6c54659533a2
00eb2f75822abeb2e222d007bdec464bfbc3934b8be12983cc898b37c6ace081	0a7778cf6f9a1bd894e89f282f2e40f9d6c9cd4b72be97328e681

Domains

- discountshadesdirect.com
- domain clippershipintl.com
- domain bimelectrical.com

IPv4

- 93.115.18.248
- 188.68.221.203
- 185.170.213.186

Signed loaders

- ed6910fd51d6373065a2f1d3580ad645f443bf0badc398aa77185324b0284db8
- cb949ebe87c55c0ba6cf0525161e2e6670c1ae186ab83ce46047446e9753a926
- 7b9091c41525f1721b12dcef601117737ea990cee17a8eecf81dcfb25ccb5a8f
- 84a67f191a93ee827c4829498d2cb1d27bdd9e47e136dc6652a5414dab440b74
- cc31c124fc39025f5c3a410ed4108a56bb7c6e90b5819167a06800d02ef1f028
- 9472d4cb393256a62a466f6601014e5cb04a71f115499c320dc615245c7594d4
- 4fe551bcea5e07879ec84a7f1cea1036cfd0a3b03151403542cab6bd8541f8e5
- 1a10a07413115c254cb7a5c4f63ff525e64adfe8bb60acef946bb7656b7a2b3d
- 9bccc1862e3e5a6c89524f2d76144d121d0ee95b1b8ba5d0ffcaa23025318a60

- 8a414a40419e32282d33af3273ff73a596a7ac8738e9cdca6e7db0e41c1a7658
- 923b2f90749da76b997e1c7870ae3402aba875fdbdd64f79cbeba2f928884129
- ed241c92f9bc969a160da2c4c0b006581fa54f9615646dd46467d24fe5526c7a
- 294c710f4074b37ade714c83b6b7bf722a46aef61c02ba6543de5d59edc97b60

DLL

BE7E259D5992180EADFE3F4F3AB1A5DECC6A394DF60C7170550B3D222FCE5F19

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