# Legitimate Sites used as Cobalt Strike C2s against Indian Government

E telsy.com/legitimate-sites-used-as-cobalt-strike-c2s-against-indian-government/

March 4, 2022



<u>Cyber Threat Intelligence</u> 04 Mar

## Introduction

Telsy Threat Intelligence team observed an attack against members of the Indian government or local institutions, which uses social engineering themes as an investigation for a cyber attack or the classic COVID-19 theme.

The campaign, probably carried out via a spear phishing e-mail, starts with the opening of a legitimate PDF attachment containing a malicious URL from which to download an ISO file. The ISO file contains LNK files and a malicious DLL that executes a Cobalt Strike beacon in memory.

Using a legitimate portal as C2 and encrypted HTTPS communication makes the campaign very silent.

Cobalt Strike is a commercial penetration testing tool, which gives security testers access to a large variety of attack capabilities.

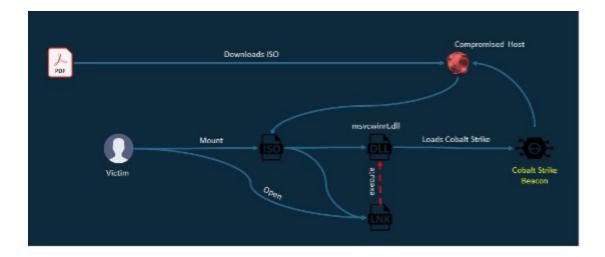
This powerful network attack platform combines social engineering, unauthorized access tools, network pattern obfuscation, and a sophisticated mechanism for deploying malicious executable code on compromised systems.

Therefore Cobalt Strike although a legitimate tool used by ethical hackers is also widely used by threat actors to launch real attacks against organizations.

Most threat actors either use stolen/cracked versions of Cobalt Strike, or simply patch out the watermark value to disrupt attribution attempts.

Cobalt Strike's watermark 1359593325 and the analyzed infection chain might lead one to think of the threat actor Nobelium aka APT29 due the similarities, both in components and how the target is infected as previously described by security companies Volexity and Microsoft.

Unfortunately, there is no clear evidence to attribute these campaigns to this threat actor.



## Analysis

#### **First PDF Analysis**

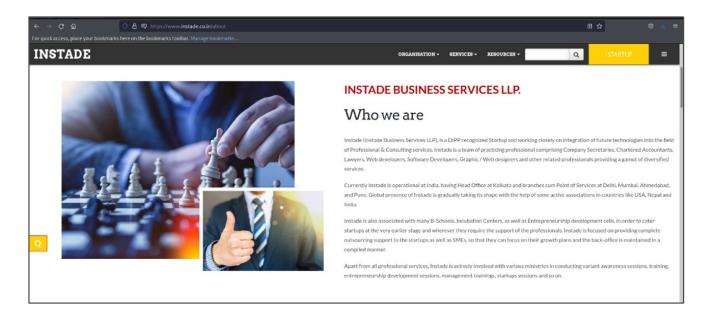
The 1st PDF found, with hash 0b1cc9a276712b1d6f379b43504bd1f1d8a49cfd, has been uploaded to VirusTotal on: 2021-12-08.

	CENTRAL CRIME POLICE STATI INDIAN POLICE SERVICE. Date: 08-12-2021 A.P. Police Department
	Government of Andhra Pradesh
Notice unde	r Section 91 Code of Criminal Procedure -1973.
Sir/Madam,	
Sub: Cyber At	tack Investigation
Ref:- Cr.No.24 CCS.	/2021 U/Sec 419, 420 IFC & Sec. 66-D IT Art 2000-2008 of
1. Download the file	
	Name
	📄 av,check
2. Double click to op	m file or use Mount option in the file's context menu
4. Run "malware che	ck" to begin malware check.
	5.0
	av base
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	Submit malware re Malware scan
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operation after 5 min The above infer	utes. mation is necessary for the purpose of investigation. Math
most urgent	
То	Yours faithfully.
Government of India	h.
Demain: cic.in	17
	(K. RAMESH)
	Inspector of Police.
	Cyber Cell.

The PDF is intended to trick the user by downloading an ISO

from "hxxps://www.instade.co.in/assets/frontend/av\_check.iso" which is still active at the time

of writing. The domain "instade.co.in" appears to be legitimate, it uses a certificate issued by Sectigo and according to information in the Whois registry was registered in 2015.



The downloaded ISO, with hash d5edd698c944accea764ff74978ca3d86067afab, contains the following files:

• 2dcbe02294e633f49806c2d5d0d1f1207a0b1959 - 'malware check.lnk'

- 9152e25c2574cccba6c7bfed2e598f9ce2afdcd0 'Submit malware report.doc.lnk'
- 44ee7f74ca1553af0e5484213dea676c66371e53 'av\_base/msvcwinrt.dll'

Opening one of the LNK files causes the DLL to be executed and consequently, the Cobalt Strike beacon infects the system. The DLL is executed via rundll32.exe by specifying the exported 'InitShut()' function to be executed.

The DLL, as said it's just a Cobalt Strike loader, the Cobalt Strike beacon configuration is the following.



The Cobalt Strike beacon uses the same compromised domain as C2, as seen above for the ISO download.

### Second PDF Analysis

The 2nd PDF analysed, with hash e648483ce584211520a20a155ebcd3f70166fa93 and named 'President-Kovind-special-visit-2022.02.24.pdf', is more recent and was uploaded to VirusTotal on 2022-02-24. This PDF uses COVID-19 prevention as a decoy before the meeting with the Indian president.

	NUMBER OF STREET
	PRESIDENT
	REPUBLIC OF INDIA
	February 24, 202
Dear Sin Madam,	
to work with people la process of live commu limit the number of par- with all necessary safe	your office and hold a personal meeting with employees. It is a great honor for me ke you. But the global pandemic of COVID-19 brings certain difficulties into the micration between people. Medical radf of the President's Office recommended to riticipants in the meeting. I would like to talk to each of you but I have to comply try measures. If you wish to antend the meeting please register in advance by prepared by President's Secretariat:
1. Download the f	ile.
and a second state of	
	o open file or use Mount option in the file's context menu
2. Double click to	open like or use Mount option in the file's context menu to start registration.
2. Double click to 3. Run "Register"	
2. Double click to 3. Run "Register"	to start registration.

The targets of this campaign are most likely the participants of the event advertised on the Indian government portal as members of one or more of these organizations:

- Assam State
- Guwahati Municipal
- Tezpur University
- Kaziranga National Park
- Tiger Reserve

A https://presid	identofindia.nic.in/press-rel	ease-detail.htm?210	8		
The H	President   Shri I of India	Ram Nath Ko	ovind		Contact   Feedback   Sitemap
Home	Press Releases	Speeches	Gallery	Rashtrapati Bhavan	Former Presidents
			Photo Gallery		
Home > Pres	s Releases > Press Relea	ses Detail	Video Gallery		ê 🖪 🕻
Press R	Releases				
	PRESIDE	NT OF INDIA	TO VISIT ASS	AM FROM FEBRUAR	Y 25 TO 27
			Rashtrapati Bhavan	: 24.02.2022	
The President of India, Shri Ram Nath Kovind will visit Assam from February 25 to 27, 2022. On February 25, 2022, the President will grace the 400th birth anniversary celebrations of Lachit Barphukan in Guwahati.					
				kan in Guwahati.	
				cation of Tezpur University a archival exhibition on conserv	t Tezpur. On the same day, he will vis ation there.

The PDF, as the previous tricks the user in downloading an ISO from the following URL hxxps://tiny.one/covid22. Also in this case the link is still up on the time being.

The downloaded ISO, with hash e2ff656f52dccc9fb70e90dc94c4fce8ab14e8ed, contains the following files:

- b2a095b6e1dad70df03763a385ff04a1036065be 'Register.Ink'
- bd165723292f62e4be7ae60d12c25461900519fb 'Submit registration.Ink'
- f80ee71efcea4736b41d6ffed777ff1bb5621043 'data/msvcwinrt.dll'

Once the LNK file is opened the malicious DLL is run through rundll32.exe specifying the exported function named 'AwaitProperty()".

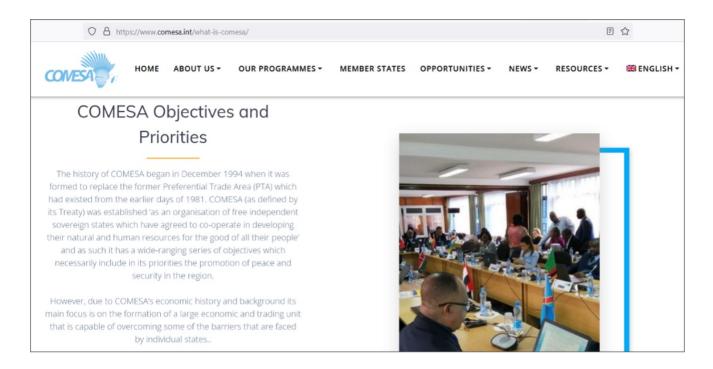
Also in this case the DLL is a Cobalt Strike loader and the beacon has the following configuration.

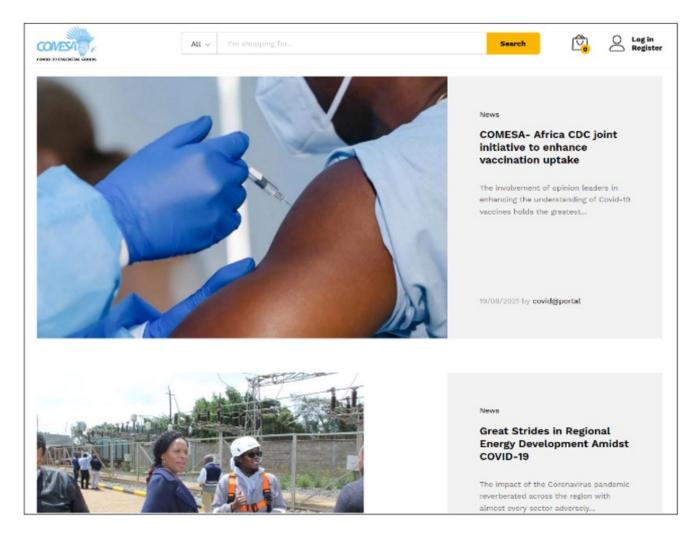
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The public key and the watermark is the same as the previous beacon but the C2 is the domain 'covid.comesa.int'.

The same domain hosts the ISO, with hash e2ff656f52dccc9fb70e90dc94c4fce8ab14e8ed, in the following path: 'hxxps://covid.comesa.int/wp-content/uploads/covid.iso'.

The domain appears to be compromised, as "comesa.int" is the official website of the Common Market of Eastern and Southern Africa.



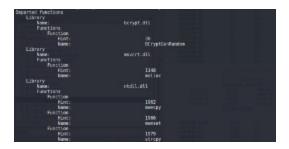


#### Cobalt Strike dropper analysis

Both the infection chains ends in a Cobalt Strike loader and the DLLs are pretty the same so the analysis has been conducted on the following hash: f80ee71efcea4736b41d6ffed777ff1bb5621043.

As said, the purpose of this DLL is to load and execute a Cobalt Strike beacon, indeed the sample appears very simple, even though the author has inserted some stub call between the significant code.

The sample imports a minimum set of functions, so it needs to load at runtime libraries and APIs.



Libraries and APIs names are stored encrypted via XOR operation in the data section using a basic data structure. Every encrypted string has its own xor key stored in the same data structure.

The structure is a basic array of struct, every item is 16 bytes long and the array with the encrypted string contains 24 items like the array with the xor key.

struct xor_strings
۱ void * ptr_buf;
long len;
};

Before, entering in the specific function used to decrypt the strings, it takes a random string 8 bytes long.

C Decempter decept strenger (LewenderLatt)
2 wild decrypt_stringed_langlong_Nots_structure)
4 6
5 undefined Unity
6 1ml sVerils
2 ulongloop uterie
a start and starts
9 set_str PaperVer50 1240;
to Langlong Listin
9 con_str Preserver50 1241; Langloog Events, 2 ret_10; 2 ret_10;
4 ret 10:
<ol> <li>as (m)_1(b).</li> <li>(m)_1(b).</li> <li>(m)_2(b).</li> <li>(m)_2(b).</li> <li>(m)_2(b).</li> <li>(m)_2(b).</li> </ol>
a. (mt. 11)
17 mt hile
a retail.
10 (ml. 11)
<pre>60 ret_110: /* get w hyter random */ () (ard) = 60% standstand() deta_share target and 1 flow() = 01 { 1 flow() = 01</pre>
z /* get a bytes random */
22 i Ren2 = 80ryp+3emRendex00, de1a_structure, 8, 31;
22 17 C/W22 - 01 4 24 / ME_1()
5 T/m5 = 0:
a ret 101
27 (ref. 10);
24 decrypt strates storing the decrypted strate pointer in the data structure.
that contained the encrypted strings */
b) decrypt_api_lib_namelly
C registri
12 (M4, 10)
0 ret_10:
(4) generaris - tranjute (*) (24) Mercjutzjalisty

Then it decrypts the string 'kernel32;ntdll' using again the xor operator and a dedicated key.



Finally, it decrypts the library name and the API name, notice how the threat actor use allocation to store the decrypted string instead of using existing space doing in-place decryption.



After that libraries and APIs are decrypted the strings are hashed with a custom algorithm and stored in the structure named 'data\_structure'. Every hash will take 8 bytes.

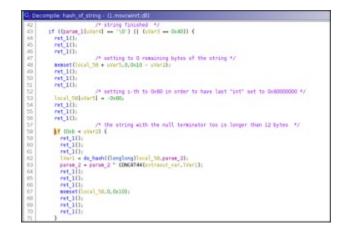
G o	econole decrypt ap 36 marie - (1. minutent dt)
45	Aut 10:
65	net_b(b)
67	ret_10;
63	permit = ppermit[2];
69	evt_110:
30	eet 110.
71	ret_1D:
72	perfort = for str 1*1 (24)2malter(llengtang)*tert *)(performent + 20);
72	ppastar5121 - paoter6
78	ret_10.
25	ret_100
78	ret_10:
77	/* dwirypt api name */
79	for (18ar) + 0: *(int *)(poster5 + 3) (+ (int)(ver) 44 (int)(ver) += *(int *)(paster5 + 3);
79	lvad = lard = 11 4
80	res_10c
11	ret_14b
12	ret_100
80	"Hyte "Hillorglangibl"goarmert210181.buf + User30 =
64	*Oute *) (Complexpld(*powner0[2[3]0].buf = Uner0) *
05	*Onyte *DiffeenglengleDependerill01.buf + Wer31:
05	eet_100/
67	ret_LO:
10 19	eet_10.
50	
52	pearmants = appartments = 4;
92	posters = posteri = 4
10	ret_ti).
54	ret 110:
	) while (searcher) to (see any (**) [24] (\$24" follows);
05	1 water fibersets in teal at the ballines appropriately

The data structure will contain all the hashes and the initial condition obtained randomically.

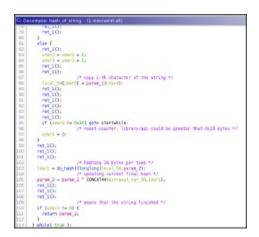
56 ref.10. 58 vCint */Gdata_structurell1.hash + 21 ∳ East]/Bards 59 ref.10. 50 ref.10. 50 ref.10.	C D	ecomple.decrypt_strings - (1.ms/cwinit.dl)
<pre>D3 [Vest = 0; vbsit true ) { st ((type:ter))[0].buf == (due *]000] break; rt[10; rt[10; rt[10; rt[10] rt[1</pre>	32	parter5 = (ror_str (*) [24])4enc_str_plate;
<pre>5</pre>		
<pre>99 ret_10; ret_10; 90 ret_10; 91 ret_10; 92 ret_10; 93 ret_10; 94 ret_10; 95 ret_10; 96 ret_10; 97 ret_10; 98 ret_10; 99 ret_10; 90 ret_10; 90 ret_10; 90 ret_10; 90 ret_10; 91 ret_10; 91 ret_10; 91 ret_10; 92 ret_10; 93 ret_10; 94 ret_10; 95 ret_10; 95 ret_10; 96 ret_10; 97 ret_10; 97 ret_10; 97 ret_10; 97 ret_10; 97 ret_10; 96 ret_10; 97 ret_10</pre>		
<pre>pret_10; ret_10;</pre>		af ((*paritar5)10].buf == (char *1000) break;
<pre>20 ret_2(i); /* get haubes by laboury same and initial condution, i.e. random string * 20 ying 2 = heah_gf_string([longlong]D*]periods1010.hef.data_structure-wimit_cond1: 21 ret_1(i); 22 ret_1(i); /* get heah_bg_structure10101.hef.data_structure-wimit_cond1: 23 ret_1(i); /* get heah_bg_structure10101.hef.data_structure-wimit_cond1: 24 ret_1(i); /* get heah_bg_structure10101.hef.data_structure-wimit_cond1: 25 ret_1(i); /* get heah_bg_structure10101.hef.data_structure-wimit_cond1: 26 ret_1(i); /* get heah_bg_structure10101.hef.data_structure-wimit_cond1: 27 ret_1(i); /* get heah_bg_structure2 * skm2(); /* data_structure.wimit_cond1: 28 ret_1(i); /* get heah_bg_structure2 * skm2(); /* data_structure.wimit_cond1: 29 ret_1(i); /* size en */ 20 ret_1(i); /* size en */</pre>		
<pre>99</pre>		
<pre>conver_ = hash_of_string([longlosp)(PiperterS101.hsf.data_structure-&gt;dat_utend):     ret_101     ret_1101     ret_110</pre>		ret_10)
<pre>41 ret_1(1); ret_1(1); 42 ret_1(1); 43 ret_1(1); 44 ret_1(1); 45 sixe3 = hash_gri_string[[longlows]P[parter51[1]].hef.dets_structure=winit_cend]; 47 ret_1(1); 47 ret_1(1); 47 ret_1(1); 48 ret_1(1); 49 ret_1(1); 40 ret_1(1); 40 ret_1(1); 41 ret_1(1</pre>		
<pre>60 ret_1(0) 61 ret_1(0) 62 ret_1(0) 63 ret_1(0) 64 ret_1(0) 65 ret_1(0) 65 ret_1(0) 66 ret_1(0) 67 ret_1(0) 68 ret_1(0) 69 ret_1(0) 60 ret_1(0)</pre>		
<pre>60 rt_1(0) /* grt hash by 40 runs */ 50 grts_0 = hash_grt_string[[longlows]0*grantstrill.hef.dets_structure-winit_cond]: 50 grt_1(1) hash is set is bash bashs strend in data_structure */ 51 grt_1(2) /* structure-hash[[longl = stark * stark]) 52 rt_1(2) /* structure-hash[[longl = stark * stark]) 53 rt_1(2) /* structure-hash[[longl = stark * stark]) 54 rt_1(2) /* structure-hash[[longl = stark * stark]) 55 rt_1(2) /* structure-hash[[longl = stark * stark]) 56 rt_1(2) /* structure-hash[[longl = stark * stark]) 57 rt_1(2) /* structure-hash[].hash + 31 /* field[stark: 58 rt_1(2) /* structure[]].hash + 31 /* field[stark: 59 rt_1(2) /* structure[]].hash + 31 /* field[stark: 50 rt_1(2) /* structure[]].hash + 31 /* field[stark: 51 rt_1(2) /* structure[]].hash + 31 /* structure[]]].hash + 31 /* structure[]].hash + 31 /* structure[]]].hash + 31 /* structure[]]].hash + 31 /* structure[]]]].hash + 31 /* structure[]]]]]] = 5 /* structure[]]]]]] = 5 /* structure</pre>		
<pre>44 45 46 47 47 47 47 47 47 47 47 47 47 47 47 47</pre>		
<pre>cite2 = test_0 istring(logicag)Copering(1).tef.det_structure =det(cend):</pre>		
06        f frail hash is see at anth hashes stored in data_structure */           07         data_structure-MashE(Vard) + start * star		
<pre>add_structure-Mash(Var0) = shar() * shar() eret_1()</pre>	10	
<pre>0 ret_10; ret_10; 50 ret_10; 51 ppervise ter_str (*) [20])(*pertur5 + 2); 52 lived = lined + 1; 53 lived = lined + 1; 54 lived = lined + 1; 55 ret_10; 65 ret_10; 66 ret_10; 68 ret_10; 69 ret_10; 69 ret_10; 60 ret_10</pre>		
<pre>employs ret_10; employs ret_10; employed = 1; employed = 1; employs ret_10; employs ret_1</pre>		
<pre>50 ret_10; 1 ppover = tar_str (*) [20])(*partur5 + 2); 1 ppover = tard + 1; 1 prot =</pre>		
<pre>51 ppuvvrf = (sor_str (*) [243)(*ppusturf + 2); 1 yord = [sord + 1]; 52</pre>		
<pre>22</pre>		
33     /* norm on */       34     )       35     ret_10;       36     ret_10;       37     ret_10;       38     *Cast */data_structurell.hash + 31        38     *Cast */data_structurell.hash + 31        39     ret_10;       30     ret_10;       31     ret_10;		ppscort = Gar str (*) E2403(*)parter5 + 23)
54 ) 5 ret_10: 56 ret_10: 7 ret_10: 58 *Gist *Idate_structure13.hash + 31 (set)/Serie 59 *Gist *Idate_structure13.hash + 31 (set)/Serie 50 *Gist - 10: 50 *Gist - 10: 51 *Gist - 10:		
<pre>b0 ret_D0: to ret_D0: b0 ret_D0: b0 ret_D0: cret_D0: cret_D0: cret_D0: cret_D0: b1 ret_D0: b1 ret_D0</pre>		
56 ref_10; 58 €Cat *16dats_structure111.hash + 21 € Lat110arts 50 ref_10; 50 ref_10; 50 ref_10; 51 ref_10;		
07 ef_0. • €int +)data_structurell.Annh + 21 } Entlinet: 50 ef_10; 51 ef_10; 52 ef_10; 53 ef_10;		
00 "Git "Jódas_structurell].hudh + 21 i GatllBard: 00 ret_D0; 00 ret_D0; 01 ret_D0;		
50 ret_LO; 10 ret_LO; 10 ret_LO;	27	The state of the state of the back of the function of the state of the
00 ret_LO; 01 ret_LO;		
0. ref 10;		
<pre>content = content = c</pre>		
		strend (leasheshide strentscall) back a data hared 31 atd), atc).
10 F	100	a supprise production of the supervision of the sup
	6.3	1
		data structure
data structure		
data_structure		C. C
data_structure {		long init condition hash:
( -		
<pre>{    long init_condition_hash; </pre>		long api lib hash[12]:
<pre>{    long init_condition_hash; </pre>		
( -		3
<pre>{     long init_condition_hash; }</pre>		

The string is hashed 16 bytes per time, the string, of course, can be of arbitrary length.

When the string is smaller than 16 bytes, it is aligned to 16 bytes adding 0x80 bytes and then setting the remainder to 0.



On the other hand, if the string is larger than 16 bytes the hash is calculated in chunks of 16 bytes and the remainder will follow the logic shown before. Of course the calculated hash is incremental, i.e. the hash of the n-th chunk is xored to the hash of the (n-1) chunk and so on.



The hash is computed, starting from a generated random initial condition that according to the string value is updated multiple times in a loop and finally returned.

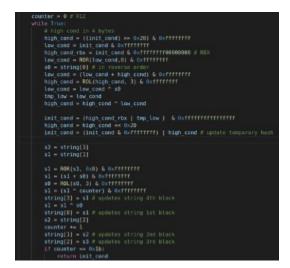


Basically, it treats the string/chunk, since it is 16 bytes long, in blocks 4 bytes long doing some shuffle and binary operation between the blocks self and the initial condition that is updated from time to time.

In particular, the final hash is due to 0x1b iteration of the hashing algorithm.

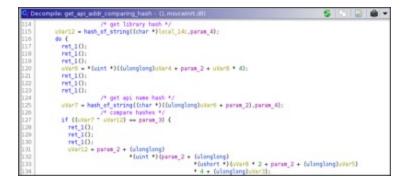
In the first for loop (line 30) the string API is copied as 4 block bytes long in an integer vector.

Then, in the second while loop the initial condition are updated according (line 48) to the string blocks and they are updated too in the same while, the code seems contorted, below a basic re-implementation.



As said, the hash of every API to load are stored in the data structure then the API addresses are searched doing a basic walk into the PEB and checking the hash.

Every module and API found is hashed and compared with the hash of the API string obtained initially.



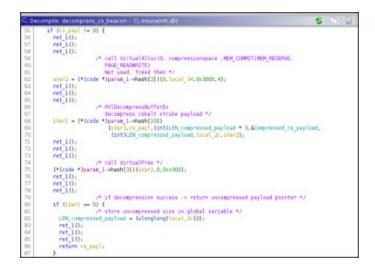
Finally, it loads all the APIs.

90	Decompile: resolve_api - (1.msvcwinrt.dl)
82	ret_10;
13	ret10;
.84	tvart = 1:
	while ((uint))Var1 == *(uint *)(param_1[1].hash = 3) 66
86	*(uint *)(param 1[1].hash + 3) != (uint)[Vurl) {
05 05 17	ret_10:
88 89 90 91 92	ret_SO:
89	ret_1();
- 90	/* resolve ith api from the data struct */
-91	<pre>loadlib_ptr = ret_address_api((longlonglparas_1.paras_1.phash[lVarl].paras_1.pinit_cond);</pre>
	param_1->hash[lVar1] = loadlib_ptr;
93	ret_10;
94 95	ret_10:
- 95	ret_10:
96 97 98 99 100	if [param_1->hash[[Var1] -= 0] break;
-97	ret_10;
- 98	ret_1O;
99	ret_10:
100	tvari = tvari + 1;
101	>
102	
103	
104	ret_10)
105	return
105	9

The payload is embedded in the binary using the compression algorithm: LNZT1.



Indeed, after allocing the required RW memory using VirtualAlloc() the payload is decompressed and the pointer is returned.



Not knowing the actual size of the decompressed payload, the memory allocated to contain it is allocated using the size of the compressed payload \* 3 as its size.

Then the author wanted, perhaps for greater security, to insert a further step, i.e. allocate a new memory area, equal exactly to the decompressed payload size, copy into it and execute it.

This way to write the code is not very logical nor correct.

Indeed assuming that the decompressed payload will take less of the initial space allocated there will be no problem in running directly it.

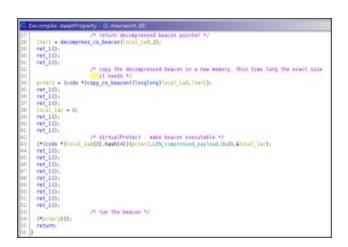
On the other hand, assuming what scares the author, i.e. decompressed payload longer than the allocated memory, the RtIDecompressBufferEX() will return an error, STATUS\_BAD\_COMPRESSION\_BUFFER and will lead to a NULL pointer access of the code, very bad and basic error.

Another weird point is the use of the hash to resolve APIs. Usually, the hash is used to obfuscate strings and make harder analysis. Here the approach is hybrid, indeed doing a trace of the sample all the required API are uncovered due to the initial decryption step.

This behavior shows that the sample likely has been written by a not so skilled programmer or it is product of confused cut and paste of multiple code's pieces.

C	Decompile: copy_cs_beacon - (1.msvcwinrt.dl)
1 2	<pre>tanglong copy_cs_beacon(longlong paras_1.undefined8 paras_2)</pre>
2	
	f January start haven final.
5	longlong ptrCS_beacon_final:
7	ret_10:
ŝ	ret.10;
÷.	ret_1();
10	ret_1():
11	ret_10;
12	ret_1();
13	
14	
15	
16	
17	
18	
19	
20	ret_1();
21	if OptrCS_beacon_final != 0) {
22	ret_1();
23	
24	ret_1():
25 26	semcpy(ptrC5_beacon_final,param_2.LEN_compressed_payload); }
20	
28	ret_10; ret_10;
29	
30	
31	

Anyway, in the end the new memory is made executable and run.



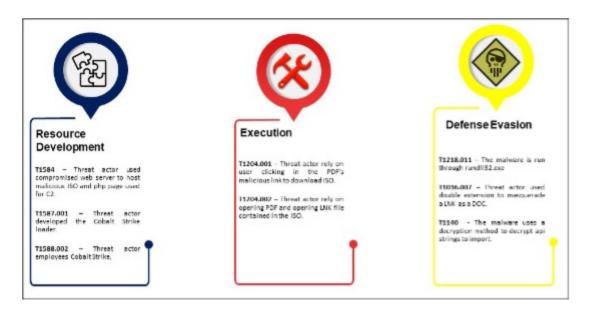
## **Indicators of Compromise**

TYPE	HASH	NAME
PDF	0b1cc9a276712b1d6f379b43504bd1f1d8a49cfd	Letter No.24-2021 of PS Dt. 08-12-2021.pdf
ISO	d5edd698c944accea764ff74978ca3d86067afab	av_check.iso
LNK	2dcbe02294e633f49806c2d5d0d1f1207a0b1959	malware check.lnk
LNK	9152e25c2574cccba6c7bfed2e598f9ce2afdcd0	Submit malware report.doc.lnk
DLL	44ee7f74ca1553af0e5484213dea676c66371e53	msvcwinrt.dll (Cobalt Strike Loader)
PDF	e648483ce584211520a20a155ebcd3f70166fa93	President-Kovind-special-visit-2022.02.24.pdf
ISO	e2ff656f52dccc9fb70e90dc94c4fce8ab14e8ed	covid.iso
LNK	b2a095b6e1dad70df03763a385ff04a1036065be	Register.lnk
LNK	bd165723292f62e4be7ae60d12c25461900519fb	Submit registration.lnk
DLL	f80ee71efcea4736b41d6ffed777ff1bb5621043	msvcwinrt.dll (Cobalt Strike Loader)

#### DOMAIN - IP - URL

https://covid.comesa.int/wp-content/uploads/covid.iso (Domain Legit)https://covid.comesa.int/wp-api.php (Domain Legit)https://www.instade.co.in/assets/frontend/av\_check.iso (Domain Legit)https://www.instade.co.in/assets/frontend/zoho.php (Domain Legit)https://tiny.one/covid22tiny.one

## **ATT&CK Matrix**



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