

Threat updates: A new IcedID GZipLoader variant | Threatray

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Summary

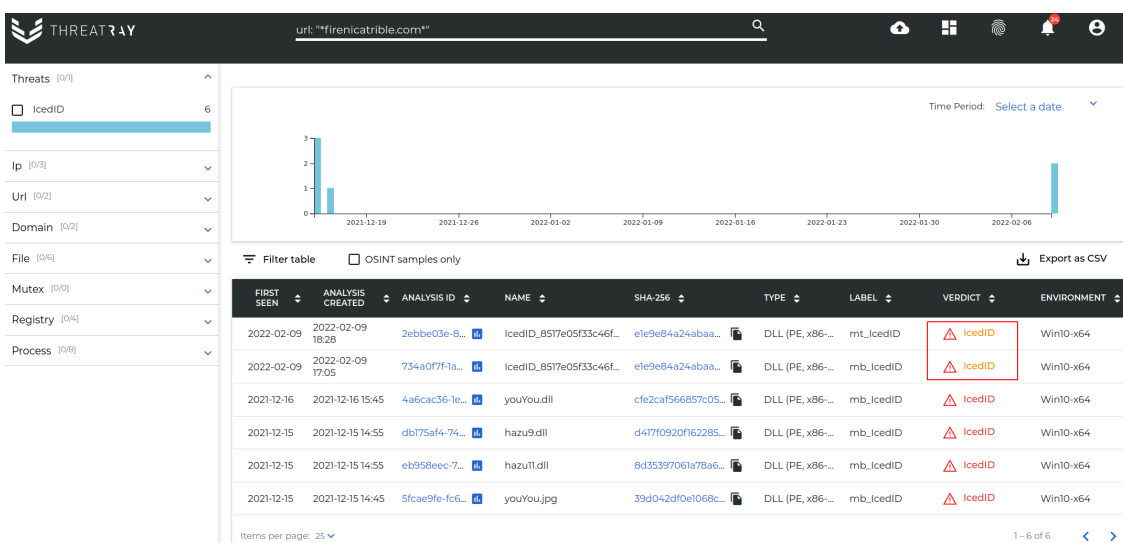
IcedID is a modular banking Trojan discovered in 2017. It is one of the most prevalent malware families in recent years, targeting financial information and acting as a dropper for other malware families, such as Vatet, Egregor, REvil.

GZipLoader is the loader component of the IcedID infection chain. Its purpose is to download and execute the final encrypted payload from the control panel. The encrypted payload mimics a GZIP file, which is why it is called GZipLoader.

While monitoring our incoming malware feeds, we have detected a new version of the IcedID GzipLoader component which is distributed since the beginning of February. This version introduces new anti-analysis techniques, whereas it is functionally equivalent to previous versions, except for the removal of the SSL-pinning feature. The anti-analysis techniques that have been introduced are the dynamic resolution of Windows API functions and string encryption.

Discovery and timeline

The new loader version came to our attention while monitoring our incoming malware feeds. Threatray classifies malware families using search algorithms that are based on code reuse analysis. We have seen (see image below) that the confidence of our classification algorithms for IcedID has dropped from high confidence (“red”) to medium confidence (“orange”). This was the trigger for further investigations.



Looking for samples contacting a known IcedID URL.

IcedID detection based on code reuse.

Looking for instance at the analysis of the sample **e1e9e84e84a24abaa8658d871515d32e21ed51f1c54812315155f4c88bbc8722ecbfbfd** we see that the virtual memory region 0x4b0000 of the regsvr32 process contains 9 functions that are related to IcedID GZipLoader component.

FIRST SEEN	ANALYSIS CREATED	ANALYSIS ID	NAME	SHA-256	TYPE	LABEL	VERDICT	ENVIRONMENT	PID	BASE	SIMILARITY
2022-02-10	2022-02-10 11:45	b305d232-15a2-440d-...	3.dll	50165bf933643c3ee448e...	DLL (PE, x86-64)	mb_IcedID	IcedID	Win10-x64	4936	0x4b0000	Code 100%
2022-02-10	2022-02-10 11:45	b305d232-15a2-440d-...	3.dll	50165bf933643c3ee448e...	DLL (PE, x86-64)	mb_IcedID	IcedID	Win10-x64	4936	0x5ea4a0	Code 100%
2022-02-10	2022-02-10 11:32	3cd82211-c421-4d9b-...	IcedID_50c86b03ba0d3b6e...	59a3f3eabe6e6ecf8b254...	DLL (PE, x86-64)	mt_IcedID	IcedID	Win10-x64	4840	0x400000	Code 100%
2022-02-10	2022-02-10 11:32	3cd82211-c421-4d9b-...	IcedID_50c86b03ba0d3b6e...	59a3f3eabe6e6ecf8b254...	DLL (PE, x86-64)	mt_IcedID	IcedID	Win10-x64	4840	0x61a560	Code 100%
2022-02-10	2022-02-10 10:36	03dc24d9-c8f9-43d6-...	IcedID_1e62463186adaf880d...	932050cb69306213a3d0...	DLL (PE, x86-64)	mt_IcedID	IcedID	Win10-x64	4992	0x4aa560	Code 100%
2022-02-10	2022-02-10 10:36	03dc24d9-c8f9-43d6-...	IcedID_1e62463186adaf880d...	932050cb69306213a3d0...	DLL (PE, x86-64)	mt_IcedID	IcedID	Win10-x64	4992	0x5a0000	Code 100%
2022-02-10	2022-02-10 08:40	3f5af9-f772-49db-8...	6cc450f51b7e06fd68bd560a...	c004c6d421b04f80c2...	DLL (PE, x86-64)	mb_IcedID	IcedID	Win10-x64	5092	0x4a0000	Code 100%
2022-02-10	2022-02-10 08:40	3f5af9-f772-49db-8...	6cc450f51b7e06fd68bd560a...	c004c6d421b04f80c2...	DLL (PE, x86-64)	mb_IcedID	IcedID	Win10-x64	5092	0x61a560	Code 100%
2022-02-09	2022-02-09 19:45	19238eca-ed85-4365-...	N3xZDC.wQMylb	f4b871a9b2e0b43dd825...	DLL (PE, x86-64)	mb_IcedID	IcedID	Win10-x64	4948	0x4b0000	Code 100%
2022-02-09	2022-02-09 19:45	19238eca-ed85-4365-...	N3xZDC.wQMylb	f4b871a9b2e0b43dd825...	DLL (PE, x86-64)	mb_IcedID	IcedID	Win10-x64	4948	0x56ad70	Code 100%
2022-02-09	2022-02-09 19:45	11489fd7-c24b-47fe-9...	gFKAh.YQqw5	a0b8e020ff67176da93...	DLL (PE, x86-64)	mb_IcedID	IcedID	Win10-x64	2408	0x44a4a0	Code 100%
2022-02-09	2022-02-09 19:45	11489fd7-c24b-47fe-9...	gFKAh.YQqw5	a0b8e020ff67176da93...	DLL (PE, x86-64)	mb_IcedID	IcedID	Win10-x64	2408	0x520000	Code 100%
2022-02-09	2022-02-09 18:45	267a7a81-46ed-4d20-...	gOBdktbjw.bin	b8d794f6449669f2d71b...	DLL (PE, x86-64)	mb_IcedID	IcedID	Win10-x64	5088	0x4a0000	Code 100%
2022-02-09	2022-02-09 18:45	267a7a81-46ed-4d20-...	gOBdktbjw.bin	b8d794f6449669f2d71b...	DLL (PE, x86-64)	mb_IcedID	IcedID	Win10-x64	5088	0x4fa4a0	Code 100%
2022-02-09	2022-02-09 18:34	c6f083d0-0e50-4a3e-...	IcedID_eab2964a1f5bbf3caf5...	6e46958960f575bdfc4...	DLL (PE, x86-64)	mt_IcedID	IcedID	Win10-x64	5088	0x4b0000	Code 100%
2022-02-09	2022-02-09 18:28	2ebbe03e-8df8-4ee4...	IcedID_857e05f33c46fc81a9e...	e1e9e84a24abaa8658d...	DLL (PE, x86-64)	mt_IcedID	IcedID	Win10-x64	5016	0x4b0000	Code 100%
2022-02-09	2022-02-09 18:28	2ebbe03e-8df8-4ee4...	IcedID_857e05f33c46fc81a9e...	e1e9e84a24abaa8658d...	DLL (PE, x86-64)	mt_IcedID	IcedID	Win10-x64	5016	0x53afd0	Code 100%
2022-02-09	2022-02-09 17:05	734a0f71-1a20-4d6f-8...	IcedID_857e05f33c46fc81a9e...	e1e9e84a24abaa8658d...	DLL (PE, x86-64)	mb_IcedID	IcedID	Win10-x64	4212	0x520000	Code 100%
2022-02-09	2022-02-09 17:00	c2b61618-5e40-491d-...	IcedID_eab2964a1f5bbf3caf5...	6e46958960f575bdfc4...	DLL (PE, x86-64)	mb_IcedID	IcedID	Win10-x64	5036	0x400000	Code 100%
2022-02-09	2022-02-09 17:00	c2b61618-5e40-491d-...	IcedID_eab2964a1f5bbf3caf5...	6e46958960f575bdfc4...	DLL (PE, x86-64)	mb_IcedID	IcedID	Win10-x64	5036	0x4c4a30	Code 100%

Retrohunting for similar GZipLoader samples.

Using our retrohunting capabilities, we have searched through our platform for samples that contain a similar loader (see image below).

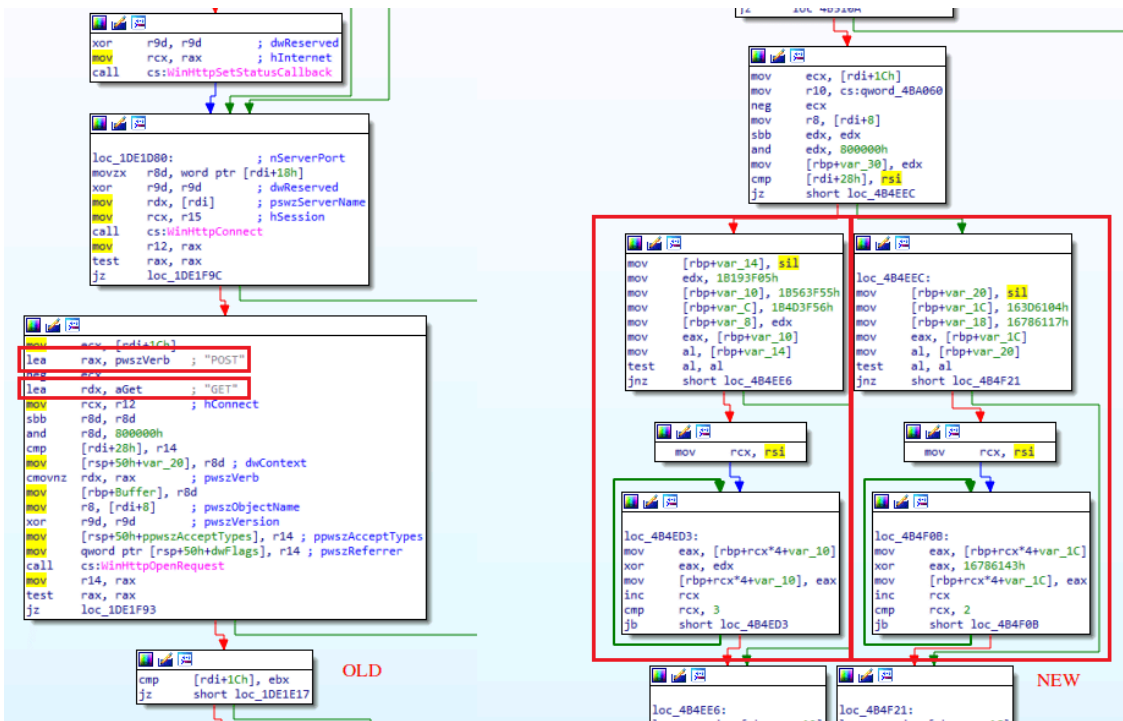
The earliest sample in our feeds with this new loader is from February 9th, 2022.

Detailed analysis

The new version of the loader resolves imports dynamically, whereas the old version does not:

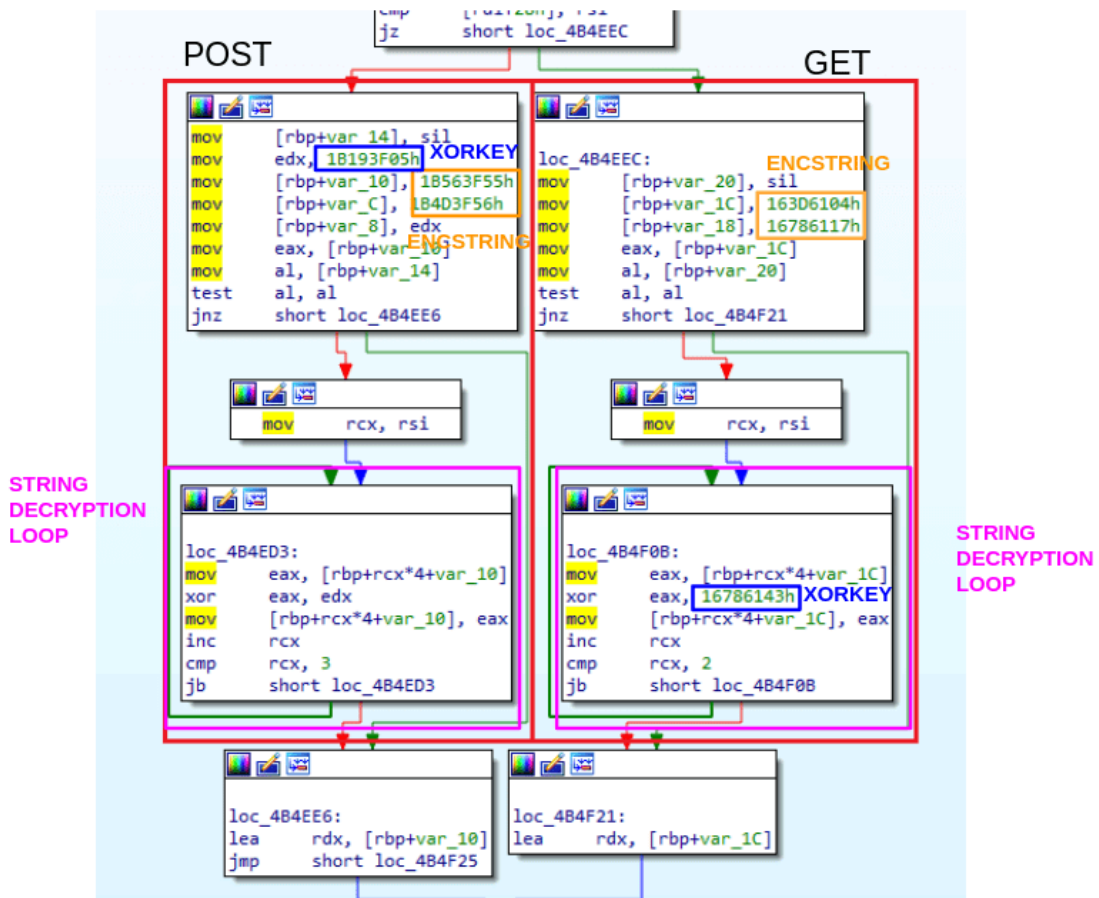
<pre> xor edx, edx ; dwAccessType xor ecx, ecx ; pszAgentW mov ebx, r14d mov esi, r14d call cs:WinHttpOpen mov r15, rax test rax, rax jz loc_1DE1FA5 </pre> <p style="text-align: right;">OLD</p>	<pre> mov dword ptr [rsp+70h+var_50], esi xor ecx, ecx mov ebx, esi mov r14d, esi call rax ; WinHttpOpen mov r15, rax test rax, rax jz loc_4B5113 </pre> <p style="text-align: right;">NEW</p>
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The second functionality that has been added to the new loader is string encryption:



Strings are hidden using a technique commonly known as stacked strings, which is combined with simple XOR encryption.

The following code is in charge of decrypting the strings using XOR operations:



A Python version of the decryption function for POST requests is as follows:

```

In [1]: enc_string = b"\x55\x3F\x56\x1B\x56\x3F\x4D\x1B"
In [2]: key = b"\x05\x3F\x19\x1B"
In [3]: dec_string = ''
In [4]: for i in range(len(enc_string)):
...:     dec_string += chr(key[i % len(key)] ^ enc_string[i])
...:
In [5]: dec_string
Out[5]: 'P\x00\x00S\x00T\x00'
In [6]: dec_string.replace('\x00', '')
Out[6]: 'POST'
    
```

The same string decryption method is used throughout the binary.

The string encryption code is in-lined (as opposed to take place in a dedicated function). This new code changes the control flow graph of all functions which are referencing strings. This could break some detections rules based on patterns recognition such as YARA rules. We thus recommend to double-check your detections rules for IcedID.

Retired features

We have also realized that in this new version, the SSL-pinning feature has been removed. For more details about this feature, we highly recommend reading the report from Group-IB on the old version (<https://blog.group-ib.com/icedid>). To summarize, IcedID sets a callback when it sends data to a legit server (mostly to aws.amazon.com) and it verifies the checksum of the public key from the server's certificate.

As you can see in the image below, in the old variant when the set_bot_information() function is called, the result of SSL_pinning_feature() is passed as argument. However, in this new variant (since the feature has been removed) the value passed to set_bot_information() is hardcoded to 1.

Old variant

```
decrypt_cnc((__int64)&v12);
SSL_Pinning = SSL_pinning_feature();
botinfo = set_bot_information(v13, SSL_Pinning, (__int64)&v11);
if ( botinfo && cnc_comm1(&v14, botinfo, &lpMem, &v16) && v16 >= 0x400 )
{
    v5 = create_directory(lpMem);
}
```

New variant

```
botinfo = set_bot_information(v12, 1, (__int64)&v11);
if ( botinfo && cnc_comm1(&v13, botinfo, &lpMem, &v15) && v15 >= 0x400 )
{
    v5 = create_directory(lpMem);
}
```

Searching in our telemetry for IcedID samples, we see that the most prevalent URL among all IcedID samples was aws.amazon.com, due to the SSL pinning feature.

However, if we limit the search scope to the last 2 weeks, we can confirm that the aws.amazon.com URL is no longer used.

Another less important change that occurs in this version is that the function responsible of decrypting the command and control has disappeared. In this new version the code of this function is in-lined in the main function.

```
threatray-lab> python3 check_url_prevalence.py
TOP 3 contacted URLs by IcedID samples last year:
http://aws.amazon.com: 8070
http://calldivorce.fun: 3163
http://tvorartificialnature.xyz: 1127
TOP 3 contacted URLs by IcedID samples last 14 days:
http://keepfootball.com: 111
http://reseptors.com: 57
http://hdtrenity.com: 5
```

IoCs

```
02e58a9e73e314497356a4d420f83584ccb85d49edce98a36f9e738b85ca637f
03a41a586c17dd1bd79aa20dfa9a0b1e11d8b0acc21d687bfc3953baf8907a86
```

03c12545f5dd6cb2a36fcc6da5184cda9259d71f2d12f537cb916a7029654330
05e15f807b0e89e6af4c42a38ca8100ce0064f63530abad455334b31a2a69c88
05e4a3ef8a29fd09f10e500acf62d628b77b2719b5664a011e66811af6509a69
0990cb15328b1784aa0338e5f21eaf771b2ec1a6b0ac16d30d94c30e33741312
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0d8041601a71723fd9a41e1350cb8baabd9a690a26f12723bcc8a91b461245a
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1d371ef854dac871c335d8ad1ba2f3d7916fc449e6383eec9196c117930c4d98
1fa43e3a239c517b2af4fbf9cd176b7ef8282d82f6f555917fefc64e4c9cde30
204bc9f2278761c541c5be310382f02e21a7b83d6944fb619abec110063dc66
205e180196d948fe19ba8ca04d244f505b667af92e8e85ee05caf61c39e38510
23bd947bcd5946b8b7c985562b6c866b3f573f26929726ec2b24a793d9245639
24a6327b7913db912a1c22fdacc0c7148a03c1aa04ee8e67c5c2f63f894d9fef
255fedca93d25a470f2b59ac374249bf3f8f5325815a7e82a5c2a63cc08f76d4
2c4ebb47841760e94ae3f6f26e9ffe4cc7e933d618b0721e6dce5da6f4595122
2d48d620321ed65bca7f16330d30d8658d8046cedc89c9135c2dfee88316267f
2d7c3f733948bd01e428e517b84eacd96e816ad3d181db27c13246a22dcc03b4
2dc18df6aa58c8646823c532debd0522e0cda5bb113b02caebadb4489ba48ce4
2ebeebe48a1bc8541fa769187fef1214b5855e8979cd902b21b792c57cbd808b
31597d65343eb5ca523fa81dbe4331d577d5d819f60f3aec071b2fb7eb9d01e4
31a5ee81cc3206f30e6bc62e84ec89e9aa35e44b52baacc8955aa68baa0a093e
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88c376b943a1855b006605b1ebf826eceb5334ccea81bf18a53f4fc70c1645fd
8d4462edf5b928a5817dc59d583ac925200b3621d060a66cc237ad972bdde8ce

8ec2058763207a52bf912bbf9108ad5c134f7991d54267a144d66c10adbfa261
919c627af8b1d832aee1ad25de3d1d99c0a04221bb5bfc8a7c8f095b1346bfc6
92243763637516274579f2b9b5f37661b9805ef6be95b56e5e91b619f9b2ba8c
931c900905566bab01a27a9b7722a3dccc0cc5fa9e0ed513486ef6e964ba57a7e
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95e0888ca69ae02606b68b6fc684bcdd6c9e0e74a53394bb3f80560507b599c8
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About Threatray

Threatray is a novel malware analysis and intelligence platform. We support all key malware defense use cases, including identification / detection, hunting, response, and analysis. Threatray helps security teams of all skill levels to effectively identify and analyze ongoing and past compromises.

At the core of Threatray are highly scalable code similarity search algorithms that find code reuse between a new and millions of known samples in seconds. Our core search algorithms do not make use of traditional byte pattern matches and are thus highly resilient to code mutations.

Our user facing features are based on the core search technology. They include best of class threat family identification and detection, easy to use real-time retro-hunting and retro-detection, cluster analysis to quickly find relevant IOCs, and low-level multi-binary analysis capabilities. Some of our binary analysis capabilities have been used for the research presented in this report.

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