

Vidar stealer campaign targeting Baltic region and NATO entities

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While working on our automatic configuration extractors, we came across a rather strange-looking Vidar sample.

The decrypted strings included domain names of such organizations as the NATO Strategic Communications Centre of Excellence, Border Guard of Poland, Estonia and Latvia, and Ministry of the Interior of Lithuania.

The screenshot shows the CERT.PL web interface. The main area displays 'Blob details' for a file named 'karton'. The file content is a list of domain names extracted from a Vidar sample, including:

- 290 \Authy_Desktop\Local_Storage\
- 291 \Authy_Desktop\Local_Storage*.localstorage-
- 292 \Opera_Stable\Local_State-
- 293 nato.int-
- 294 ccdcoe.ee-
- 295 ccdcoe.org-
- 296 stratcomcoe.org-
- 297 enseccoe.org-
- 298 sab.gov.lv-
- 299 dp.gov.lv-
- 300 rs.gov.lv-
- 301 vp.gov.lv-
- 302 mod.gov.lv-
- 303 cert.lv-
- 304 mil.lv-
- 305 gov.lt-
- 306 mil.lt-
- 307 vsd.lt-
- 308 vrm.lt-
- 309 stt.lt-
- 310 kapo.ee-
- 311 politsei.ee-
- 312 aw.gov.pl-
- 313 abw.gov.pl-
- 314 strazgraniczna.pl-
- 315 bbn.gov.pl-
- 316 sw.gov.pl-
- 317 mon.gov.pl-
- 318 skw.gov.pl-
- 319 cert.pl-
- 320 mysite-

The sidebar on the right shows 'Tags' with a 'vidar' tag, 'Related configs' with a parent config ID, and 'Attributes' with 'Karton analysis' results showing three completed analyses with their respective hashes.

Automatically extracted strings from a Vidar sample

List of targeted hostnames:

```
ccdcoe.ee
ccdcoe.org
stratcomcoe.org
enseccoe.org
sab.gov.lv
midd.gov.lv
dp.gov.lv
rs.gov.lv
vp.gov.lv
mod.gov.lv
cert.lv
mil.lv
gov.lt
mil.lt
```

```
vsd.lt  
vrm.lt  
stt.lt  
kapo.ee  
politsei.ee  
aw.gov.pl  
abw.gov.pl  
strazgraniczna.pl  
bbn.gov.pl  
sww.gov.pl  
mon.gov.pl  
skw.gov.pl  
cert.pl
```

During this analysis we'll be looking at sample

```
b115531ef23c109fb58c392379b7f55eff11169e1317b263da60edd9ac98f6b1 .
```

Vidar Stealer, as the name suggests, is a malware family that is designed to steal and exfiltrate user information. This includes data such as credentials, cryptocurrency wallets and browser cookies.

It's widely believed that the family evolved from Arkei Stealer - another infostealer with similar capabilities.

There is an excellent blogpost¹ by [@fumik0](#) describing the similarities and differences.

While previous versions of the malware used to have C&C server address hardcoded directly in the sample, these days, it uses a bit more novel approach where the address is fetched from a social media platform like FACEIT or Mastodon.

String decryption and usage

Let's see how the strings in question were extracted and what are the semantics behind their usage.

The encryption is pretty straightforward. Each blob is produced by xoring two static strings located in the `.rdata` section.

```

322 dword_4D6030 = xor_decrypt(&unk_4BA5C8, "3F341XA6", 8u); // nato.int
323 dword_4D60B4 = xor_decrypt(&unk_4BA5B0, "3TW6GXQHW", 9u); // ccdcoe.ee
324 dword_4D5E08 = xor_decrypt(aR2y1G, "B1FQ6TQC5L", 0xAu); // ccdcoe.org
325 dword_4D5F58 = xor_decrypt("E*!,<#V7'!6#", "VK7KUOSN5XBRPDD", 0xFu); // stratcomcoe.org
326 dword_4D601C = xor_decrypt("V$>2{[:P{5-", "3JMWK8U5UGGJ", 0xCu); // enseccoe.org
327 dword_4D5D9C = xor_decrypt("*V4cUY;a:@", "Y7VM26MOV6", 0xAu); // sab.gov.lv
328 dword_4D60FC = xor_decrypt("$*7<e2:#z!4", "ICSXKUUTMB", 0xBu); // midd.gov.lv
329 dword_4D5D44 = xor_decrypt(")3e##?#c.&", "MCKDPUMBP", 9u); // dp.gov.lv
330 dword_4D5D18 = xor_decrypt("?6'![&d'<", "MENF4PKJ", 9u); // rs.gov.lv
331 dword_4D5FD4 = xor_decrypt(" 3t5X7e)!", "VCZR7AKEW", 9u); // vp.gov.lv
332 dword_4D5DBC = xor_decrypt("5V/o0[>bY:", "X9KAW4HL5L", 0xAu); // mod.gov.lv
333 dword_4D603C = xor_decrypt("**>Mc+\\", "INL9MGT", 7u); // cert.lv
334 dword_4D5F60 = xor_decrypt(&unk_4BA4A8, "EYM34L", 6u); // mil.lv
335 dword_4D5ED8 = xor_decrypt(",#Nd!@", "KL8JM4", 6u); // gov.lt
336 dword_4D609C = xor_decrypt("(\\_e[-", "EK3K7Y", 6u); // mil.lt
337 dword_4D5E50 = xor_decrypt("46)|8C", "BEMRT7", 6u); // vsd.lt
338 dword_4D5ECO = xor_decrypt("%'U!Z>", "SU8B6J", 6u); // vrm.lt
339 dword_4D60A8 = xor_decrypt("798`Z#", "DMLN6W", 6u); // stt.lt
340 dword_4D5F74 = xor_decrypt("ZRC6o?<", "133YAZY", 7u); // kapo.ee
341 dword_4D5D88 = xor_decrypt("%[>Y5#&&e)", "U4R0APCOKLB", 0xBu); // politsei.ee
342 dword_4D6100 = xor_decrypt(") k($='9<", "HWEOKKNIP", 9u); // aw.gov.pl
343 dword_4D5CC8 = xor_decrypt("8%6)W!1z4Y", "YGASONGTD5", 0xAu); // abw.gov.pl
344 dword_4D5D58 = xor_decrypt("=1*RC$ORY?PO\\#e7'", "NEX39CB37V352BK GK", 0x11u); // strazgraniczna.pl
345 dword_4D5FC8 = xor_decrypt(&unk_4BA3C0, "SMTSK1K9N4", 0xAu); // bbn.gov.pl
346 dword_4D5E9C = xor_decrypt(&unk_4BA3A8, "89XJTKO76T", 0xAu); // sww.gov.pl
347 dword_4D5BDC = xor_decrypt("_)#g5>!xC#", "2FMIRQWV30", 0xAu); // mon.gov.pl
348 dword_4D5E28 = xor_decrypt("K\\\"j>(#`3\\", "8IUDYGUNCN", 0xAu); // skw.gov.pl
349 dword_4D5C98 = xor_decrypt("-Q$<jC&", "N4VHD3J", 7u); // cert.pl
350 dword_4D5D7C = xor_decrypt(" 2&'0+", "MKUNDN", 6u); // mysite
351 result = xor_decrypt("6 9$&+P$", "WRMAK4E", 8u); // artemida
352 dword_4D5E10 = result;
353 return result;
354 }

```

```
000020D5 sub_401090:318 (402CD5)
```

Xor string decryption

The decoded strings are then used in a subsequent section of the binary, where they are compared with hostnames of stolen credentials.

```

while ( *(v6 + v5 - &unk_4D32F8) == *v6 )
{
    v7 -= 4;
    ++v6;
    if ( v7 < 4 )
    {
        WideCharToMultiByte(0, 0, *(v5 + 16), -1, MultiByteStr, 256, 0, 0);
        if ( strlen(MultiByteStr) > 2 )
        {
            WideCharToMultiByte(0, 0, *(v5 + 16), -1, MultiByteStr, 256, 0, 0);
            fprintf(v3, "Soft: %s\n", MultiByteStr);
            WideCharToMultiByte(0, 0, (*(v5 + 20) + 32), -1, Src, 256, 0, 0);
            fprintf(v3, "Host: %s\n", Src);
            compare_hardcoded_domains(Src);
            WideCharToMultiByte(0, 0, (*(v5 + 24) + 32), -1, v19, 256, 0, 0);
            fprintf(v3, "Login: %s\n", v19);
            v10 = 0;
            if ( dword_4D61F4(v9, v5, *(v5 + 20), *(v5 + 24), 0, 0, &v10) )
            {
                fprintf(v3, "Password: \n\n");
            }
            else
            {
                WideCharToMultiByte(0, 0, (*(v10 + 28) + 32), -1, v20, 256, 0, 0);
                fprintf(v3, "Password: %s\n\n", v20);
                ++dword_4D6220;
            }
        }
    }
}

```

Iteration over stolen credentials

If at least one domain is matched, a global flag is incremented.

```

IDA View-A X Pseudocode-A X Hex View-1 X Structures X Enums X Imports X Exports
197 get_str(&v2, Src, strlen(Src));
198 if ( compare_str(v2, v3, v4, v5, v6, compare_something, v8, comapre_str) )
199 ++matched_domains;
200 comapre_str = dword_4D5FC8; // bbn.gov.pl
201 compare_something = 15;
202 v6 = 0;
203 v11 = &v2;
204 LOBYTE(v2) = 0;
205 get_str(&v2, Src, strlen(Src));
206 if ( compare_str(v2, v3, v4, v5, v6, compare_something, v8, comapre_str) )
207 ++matched_domains;
208 comapre_str = dword_4D5E9C; // swv.gov.pl
209 compare_something = 15;
210 v6 = 0;
211 v11 = &v2;
212 LOBYTE(v2) = 0;
213 get_str(&v2, Src, strlen(Src));
214 if ( compare_str(v2, v3, v4, v5, v6, compare_something, v8, comapre_str) )
215 ++matched_domains;
216 comapre_str = dword_4D5BDC; // mon.gov.pl
217 compare_something = 15;
218 v6 = 0;
219 v11 = &v2;
220 LOBYTE(v2) = 0;
221 get_str(&v2, Src, strlen(Src));
222 if ( compare_str(v2, v3, v4, v5, v6, compare_something, v8, comapre_str) )
223 ++matched_domains;
224 comapre_str = dword_4D5E28; // skw.gov.pl
225 compare_something = 15;
226 v6 = 0;
227 v11 = &v2;
228 LOBYTE(v2) = 0;
229 get_str(&v2, Src, strlen(Src));
230 if ( compare_str(v2, v3, v4, v5, v6, compare_something, v8, comapre_str) )
231 ++matched_domains;
232 comapre_str = dword_4D5C98; // cert.pl
233 compare_something = 15;
234 v6 = 0;
235 v11 = &v2;
236 LOBYTE(v2) = 0;
237 get_str(&v2, Src, strlen(Src));
238 result = compare_str(v2, v3, v4, v5, v6, compare_something, v8, comapre_str);
239 if ( result )
240 ++matched_domains;
241 if ( matched_domains )
242 ++targeted_domain_matched;
243 return result;
244 }
00019442 compare_shit:244 (41A042)

```

Hostname needle search

What's unusual about these Vidar samples is the use of a second C&C server responsible for handling credentials used when the global flag is set.

```

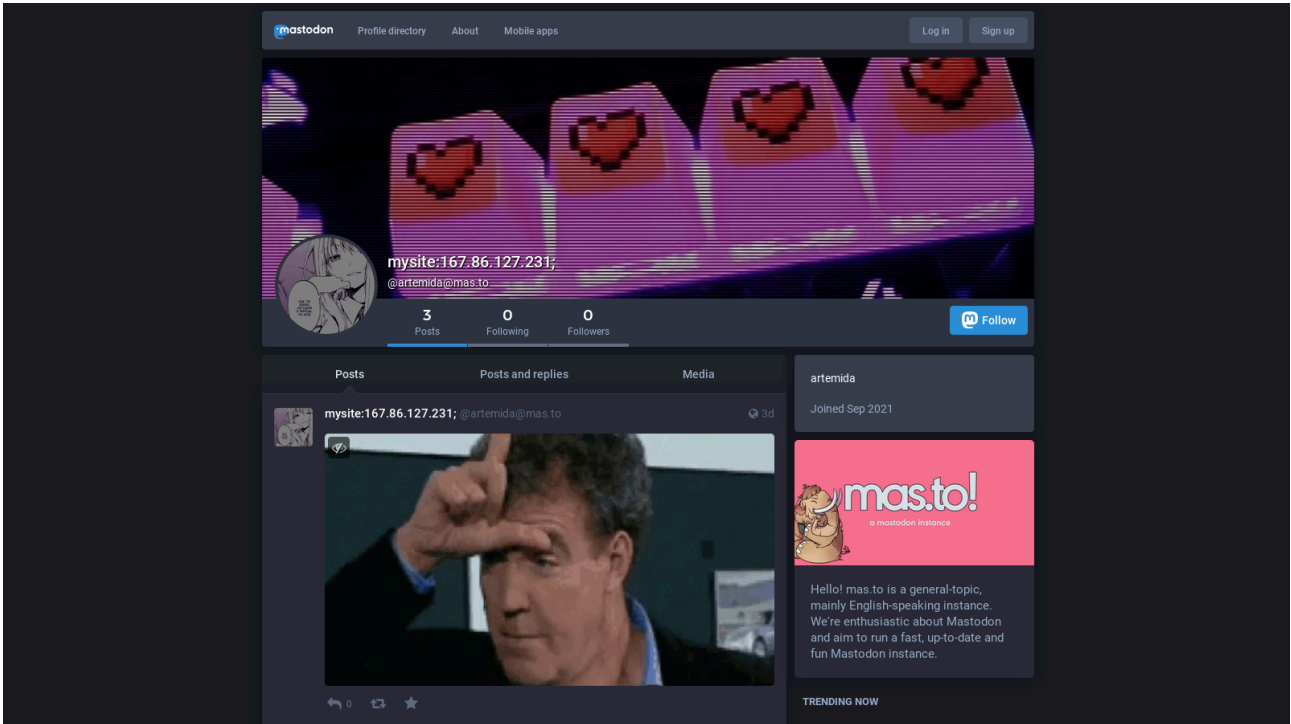
IDA View-A X Pseudocode-A X Hex View-1 X Structures X Enums X Imports X Exports
442 v120[2],
443 v120[3],
444 v120[4],
445 v120[5],
446 v120[6]);
447 LOBYTE(v164) = 19;
448 sub_420810(v121, v122);
449 if ( targeted_domain_matched )
450 {
451 v120[6] = L";";
452 v120[4] = 15;
453 v120[3] = 0;
454 v124 = &v113;
455 LOBYTE(v119) = 0;
456 get_str(&v119, dword_4D5E10, strlen(dword_4D5E10)); // mysite
457 v117 = 15;
458 v116 = 0;
459 LOBYTE(v164) = '\x14';
460 v125 = &v112;
461 LOBYTE(v112) = 0;
462 get_str(&v112, dword_4D5D7C, strlen(dword_4D5D7C)); // artemida
463 LOBYTE(v164) = 19;
464 lookup_mastadon_c2(
465 7,
466 v112,
467 v113,
468 v114,
469 v115,
470 v116,
471 v117,
472 v118,
473 v119,
474 v120[0],
475 v120[1],
476 v120[2],
477 v120[3],
478 v120[4],
479 v120[5],
480 v120[6]);
481 }
482 v143 = 15;
483 v142 = 0;
484 LOBYTE(lpPathName[0]) = 0;
485 sub_403610(lpPathName, ::lpPathName, 0, 0xFFFFFFFF);
486 v33 = lpPathName[0];
487 if ( v143 < 0x10 )
488 v33 = lpPathName;
489 SetCurrentDirectoryA(v33);
00011404 sub_411560:486 (412004)

```

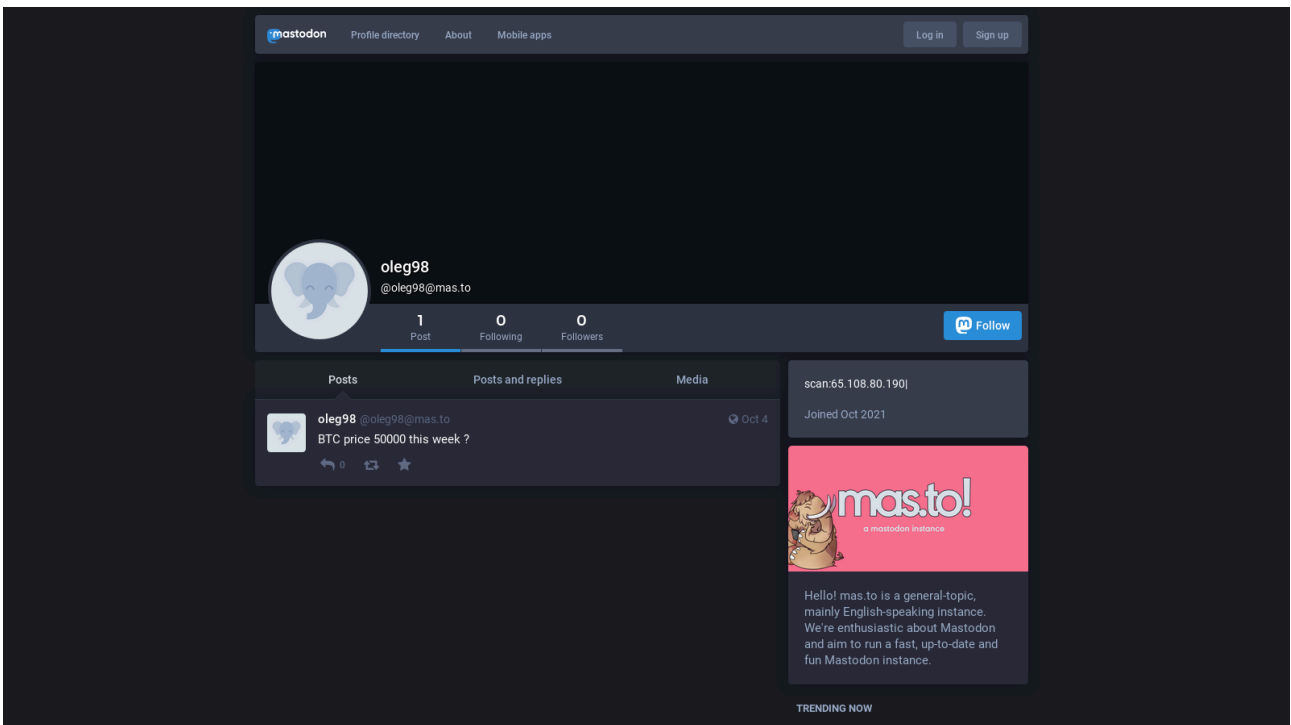
Alternative C&C server lookup

For the Vidar version analyzed, the C&C address is not stored directly in the sample but fetched from a specific user profile on the Mastodon platform.

In this specific sample, the default profile is @oleg98 , and for reporting credentials from hosts of interest, @artemida is used.



Mastodon artemida profile - pointing to 167.86.127.231



Mastodon oleg98 profile - pointing to 65.108.80.190

Campaign background

Unfortunately, we don't have much information on how the campaign was delivered and which entities were targeted directly. What is interesting, though, is that the actor used several other malware families.

Let's take a look at source samples in [MWDB](#). We'll use mwdblib to quickly find the files that were extracted into the config in question.

mwdb search files 'child:(child:(config,dhash:abed3750173760a9bcc5f6d78ccdd3557ce27135c8c5e6e593a9a7387e738c4e

Name/SHA256	Size	Type/Tags	Creation time
69d76ee19d6740d9e409c5b1074c0c7.exe 736b919068232acf7aae67e3ca5e915c89faade4110b31ff75c249ade1991ef6	238.6 KB	PE32 executable (GUI) Intel 80386, for MS Windows feed:urlhau... runnab...win32.exe urlhau...exe yara:win_smokeloader et:smokeloader feed:malwarebaza... ur lhau:32 ripped:vidar	Oct 21
Setup.exe ebe82a7d2f2f9989a5e4ef6a4602a8224abdf7aef5baa6beac5977c02ac3e0	536.1 KB	PE32 executable (GUI) Intel 80386, for MS Windows runnab...win32.exe yara:win_raccoon ripped:raccoon feed:malwarebaza... et:raccoon_stealer et:redline r ipped:vidar	Oct 20
pctool.exe dbc78e2174eaeef2807de19d0c1c60d0d27ce3d83a001d0d1bb603afad2f961	3.6 MB	PE32 executable (GUI) Intel 80386 Mono/.Net assembly, for MS Windows feed:urlhau... runnab...win32.exe et:avecaesar et:raccoon_stealer et:redline ripped:redlinestealer ripp ed:vidar	Oct 20
pctool.exe 186d93ced41d81795f66bb29ad5c847a25a1e2c094fe28a67dc576f1c33fcad4	3.6 MB	PE32 executable (GUI) Intel 80386 Mono/.Net assembly, for MS Windows feed:urlhau... runnab...win32.exe yara:win_raccoon ripped:raccoon et:raccoon_stealer et:redline ripped: vidar	Oct 20
4463bf7d3c435e6d0efce23c43be767.exe d7480662bc7ee6dc39227ea381978553b1774774e40a70ea3bf6aebca48622	3.6 MB	PE32 executable (GUI) Intel 80386, for MS Windows runnab...win32.exe feed:malwarebaza... et:bitrat et:redline ripped:vidar	Oct 20
azef57bbe3a8af95196a419a7962bfaa.exe 4bc52cd8296fcffc22b5ca8ebf2b161260d71c8d34658f45c9c93cf6d65749e9	739.3 KB	PE32 executable (GUI) Intel 80386, for MS Windows runnab...win32.exe feed:malwarebaza... ripped:vidar	Oct 20
b2a7ab12fd91fab7767d41fa9cf86369.exe 4b3e6a191ab050a87aeb8a650290c4e217e9508971beeb929417d13d89292e2	827.4 KB	PE32 executable (GUI) Intel 80386, for MS Windows runnab...win32.exe yara:win_stop feed:malwarebaza... ripped:vidar	Oct 20
bd313f9102739a231214b4ef4f6c303.exe c95d04ae659ff27da971c970ec072ffbec37551120f8c395d5455fba4139d0d	238.6 KB	PE32 executable (GUI) Intel 80386, for MS Windows runnab...win32.exe yara:win_smokeloader et:smokeloader feed:malwarebaza... ripped:vidar	Oct 20
15A0 f3b348f158a12fed576ae95508214cd58f6521325a5c4ef98bdaea83f11c	871.0 KB	PE32 executable (GUI) Intel 80386, for MS Windows vidar runnab...win32.exe unpacked ripped:vidar	Oct 19
decrypted_2.exe 8533157dc20f32c822c2d84d1d2f68934d37943c15e01fb067e1e0e6d6d33a	876.5 KB	data <none>	Oct 19
buil1d2.exe b11531ef23c109fb58c92379b7f55eff1169e1317b26da6ed9ac98fb61	791.6 KB	PE32 executable (GUI) Intel 80386, for MS Windows runnab...win32.exe ripped:vidar	Oct 19
c81d885f72ce09b7f12419fa0.exe 6aae67d87cd2ef23c4b9265c8e83db5142f00154e66e47b1e54219cea794682b	848.2 KB	PE32 executable (GUI) Intel 80386, for MS Windows runnab...win32.exe yara:win_stop feed:malwarebaza... ripped:vidar	Oct 19
91db4a1706eda8936d0ce12eb51a8.exe aad6294207c2facfebf440fa5d52804422edb9c9e9adb4a7aaff0310b1c5d11	838.0 KB	PE32 executable (GUI) Intel 80386, for MS Windows runnab...win32.exe yara:win_stop feed:malwarebaza... ripped:vidar	Oct 19
13c23cbf373b0460e1b1509e94334941.exe 43b31ea75f3c0666523aefc13e216a651e8e93feaff1165cb35ed374365cdd6	838.5 KB	PE32 executable (GUI) Intel 80386, for MS Windows runnab...win32.exe yara:win_stop feed:malwarebaza... ripped:vidar	Oct 19
setup_x86_x64_install.exe d7b0380241e4d47fc00e72faa08831b51b0ae360d5ccc45717f39f3106c3020a	4.8 MB	PE32 executable (GUI) Intel 80386, for MS Windows, Nullsoft Installer self-extracting archive runnab...win32.exe yara:win_smokeloader yara:win_karius feed:malwarebaza... ripped:vidar	Oct 18
a9d63ba83576c19bb1dbad9e85b51ccc.exe 995d009e2fa6b510a0251895e071d0709ebfdeac782eae91caa3b4ee30bd29b	6.2 MB	PE32 executable (GUI) Intel 80386, for MS Windows, Nullsoft Installer self-extracting archive runnab...win32.exe yara:win_smokeloader yara:win_karius feed:malwarebaza... ripped:redlinestealer ripp ed:vidar	Oct 18

All matched samples and accompanying tags:

```
'77737d30b68a8fa75847570bfaa2c718875c532de61d7a5643504a1ac892a330', ['feed:malwarebazaar', 'ripped:raccoon', 'ri
'9405f9084c8ec3eff442b83c20928fceb3e6372d504381b0527a7512a9889231', ['feed:malwarebazaar', 'feed:urlhau...', 'ripp
'062c573497b73b4feaa77a78c2c76f6b095e51de635ac936e034f72afa081ecf', ['feed:malwarebazaar', 'ripped:vidar', 'runn
'8aa42e07176d24c933d1e2bc4f0052b2973f98f6c6e395d90f09e07db7c0585', ['feed:malwarebazaar', 'ripped:vidar', 'runn
'736b919068232acf7aae67e3ca5e915c89faade4110b31ff75c249ade1991ef6', ['et:smokeloader', 'feed:malwarebazaar', 'fe
'ebe82a7d2f2f9989a5e4ef6a4602a8224abdf7aef5baa6beac5977c02ac3e0', ['et:raccoon_stealer', 'et:redline', 'feed:r
'dbc78e2174eae6f2807de19d0c1c60d0d27ce3d83a001d0d1bb603afad2f961', ['et:avecaesar', 'et:raccoon_stealer', 'et:
'106d93ced41d81795f66bb29ad5c847a25a1e2c094fe28a67dc576f1c33fcad4', ['et:raccoon_stealer', 'et:redline', 'feed:u
'd7480662bc7ee6dc39227ea381978553b1774774e40a70ea3bf6aebca48622', ['et:bitrat', 'et:redline', 'feed:malwareba
'4bc52cd8296fcffc22b5ca8ebf2b161260d71c8d34658f45c9c93cf6d65749e9', ['feed:malwarebazaar', 'ripped:vidar', 'runn
'4b3e6a191ab050a87aeb8a650290c4e217e9508971beeb929417d13d89292e2', ['feed:malwarebazaar', 'ripped:vidar', 'runn
'c95d04ae659ff27da971c970ec072ffbec37551120f8c395d5455fba4139d0d', ['et:smokeloader', 'feed:malwarebazaar', 'r:
'6aae67d87cd2ef23c4b9265c8e83db5142f00154e66e47b1e54219cea794682b', ['feed:malwarebazaar', 'ripped:vidar', 'runn
'aad6294207c2facfebf440fa5d52804422edb9c9e9adb4a7aaff0310b1c5d11', ['feed:malwarebazaar', 'ripped:vidar', 'runn
'43b31ea75f3c0666523aefc13e216a651e8e93feaff1165cb35ed374365cdd6', ['feed:malwarebazaar', 'ripped:vidar', 'runn
'd7b0380241e4d47fc00e72faa08831b51b0ae360d5ccc45717f39f3106c3020a', ['feed:malwarebazaar', 'ripped:vidar', 'runn
'995d009e2fa6b510a0251895e071d0709ebfdeac782eae91caa3b4ee30bd29b', ['feed:malwarebazaar', 'ripped:redlinesteal
```

```
'6c2ad98af84288aff6f49ae92f9f71befbfaa4ac35d1a05b1441f1ce15124ee0', ['feed:malwarebazaar', 'ripped:raccoon', 'ri  
'3276f5cb5545e19704b1ef2897c17d721d6e156323f48f19275997d3cc62d005', ['feed:malwarebazaar', 'ripped:vidar', 'runr  
'ee6cb977e78651d7b9a3fd412a40f6e2cd1501f05b04c49e744db35c83181132', ['et:raccoon_stealer', 'et:redline', 'feed:r  
'22dbf29f7b7ee63da9418ab462b83e242823b83af7d697e7cf34796fbc4d884', ['feed:malwarebazaar', 'ripped:vidar', 'runr  
'149d9555994e5930d863674a2c55d295d5a19446bed86ef1079ccbbbdae9975f', ['feed:malwarebazaar', 'ripped:vidar', 'runr  
'90618d3aa5146d27b46476a4c7bfcc2e5323b74dcbcf2c0af6b4f00c4c2d9297', ['et:raccoon_stealer', 'et:redline', 'feed:r  
'7a5444f5316764d3960132052abe097784a29b7390e0ece10c86b804c125100f', ['feed:malwarebazaar', 'ripped:vidar', 'runr  
'98ee19dbbe959081f2d95b7f56af58fcb7ecdc5b85bb9ee13775376b9bad1ccf', ['feed:malwarebazaar', 'ripped:vidar', 'runr  
'9fef9d930a1cc7b257fe5a65bc3eda3167bc0f82895f288fc34eaca3411b2688b', ['feed:malwarebazaar', 'ripped:vidar', 'runr  
'11a83b7f651c007cef7ca9490fc560dbfda8cd6b538199e277047c8087c7cee0', ['feed:malwarebazaar', 'ripped:vidar', 'runr  
'611796a36903059a2d1725d7849a375b9aa2902254c0d5f5fa2122e83570ea3a', ['feed:malwarebazaar', 'ripped:vidar', 'runr  
'7ec5f24e6f59719e6c071ec719dcfcbe8e48f5293f493b903f19446c1815048b', ['feed:malwarebazaar', 'ripped:vidar', 'runr  
'518e682b4f0226db5e1abb7b62a32a2f46db719b6c407317273cbef56c811657', ['feed:urlhaus', 'ripped:vidar', 'runnable:v  
'bf4d1dcd4b9129f47ec4239fa5a33e00c981e5fac5b8be880b76d2a1f5753c34', ['feed:malwarebazaar', 'ripped:vidar', 'runr  
'd9b6823ca8e13b78c269c5d21e948dbab625ea87d3370d163eeabeb3822aef56', ['feed:malwarebazaar', 'ripped:vidar', 'runr  
'8a2abfa467352b278a1233aead9dffbb23a6d17bd50fe22e275ca92a1911c23c', ['feed:urlhaus', 'ripped:vidar', 'runnable:v  
'1fbbaa6cfa20d6e11a3e5e4ba0702f608d474cbf5a86eef891fb57a671c684be', ['feed:malwarebazaar', 'ripped:vidar', 'runr  
'2692f4594cebfa3afca882274dc1432fea1ccbc7d3f37db3e15059722db1d97b', ['feed:malwarebazaar', 'ripped:vidar', 'runr  
'9cfffade290f88c34b8a5e2e551fd9ae035eeda9d49d0eb0fec8e40ecf2e84', ['feed:malwarebazaar', 'ripped:vidar', 'runr
```

We can see that besides Vidar, MWDB was also able to detect and extract configurations from the following malware families:

- Raccoon
- RedLine Stealer
- SmokeLoader
- STOP ransomware

All of the recognized samples were uploaded as a part of the URLhaus², and MalwareBazaar³ feeds, both developed by abuse.ch.

Indicators of Compromise

C&C profile proxies

- hxxps://mas.to/@sslam
- hxxps://mas.to/@serg4325
- hxxps://mas.to/@xerxxxx
- hxxps://mas.to/@oleg98
- hxxps://mas.to/@artemida

C&C servers

- 65.108.80[.]190
- 167.86.127[.]231

Samples

```
16c3f8999141beee55afdb49670b9e44b4916816faeb643639a7ace81c13806a
1d4ecd52ab85b7f5229f00ee10d438286e361d4c304000abca8b3dcbe1d7c720
77737d30b68a8fa75847570bfaa2c718875c532de61d7a5643504a1ac892a330
9405f9084c8ec3eff442b83c20928fceb3e6372d504381b0527a7512a9889231
062c573497b73b4feaa77a78c2c76f6b095e51de635ac936e034f72afa081ecf
c8aa42e07176d24c933d1e2bc4f0052b2973f98fc6e395d90f09e07dbf7c0585
736b919068232acf7aae67e3ca5e915c89faade4110b31ff75c249ade1991ef6
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106d93ced41d81795f66bb29ad5c847a25a1e2c094fe28a67dc576f1c33fcad4
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4bc52cd8296fcffc22b5ca8ebf2b161260d71c8d34658f45c9c93cf6d65749e9
4b3e6a191ab050a87aeeb8a650290c4e217e9508971beeb929417d13d89292e2
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6aae67d87cd2ef23c4b9265c8e83db5142f00154e66e47b1e54219cea794682b
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7a5444f5316764d3960132052abe097784a29b7390e0ece10c86b804c125100f
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9cffbade290f88c34b8a5e2e551fd9ae035eeda9d49d0eb0fecece8e40ecf2e84
446d53cdc62a86025835e93938afeb9c1b24f28f2bade4980c01ac517b76c760
```

References

1. <https://fumik0.com/2018/12/24/lets-dig-into-vidar-an-arkei-copycat-forked-stealer-in-depth-analysis/> ↵

2. <https://urlhaus.abuse.ch/> ↵
3. <https://bazaar.abuse.ch/> ↵

Source: <https://cert.pl/en/posts/2021/10/vidar-campaign/>