



WastedLocker: A New Ransomware Variant Developed By The Evil Corp Group

23 June 2020

By [Stefano Antenucci](#)



◆ Research ◆ Research ◆ Threat Intelligence ◆ Fox-IT and European Research
◆ Fox-IT ◆ Managed Detection & Response

Authors: Nikolaos Pantazopoulos, Stefano Antenucci (@Antelox), Michael Sandee and in close collaboration with NCC's RIFT.

About the Research and Intelligence Fusion Team (RIFT):

RIFT leverages our strategic analysis, data science, and threat hunting capabilities to create actionable threat intelligence, ranging from IOCs and detection capabilities to strategic reports on tomorrow's threat landscape. Cyber security is an arms race where both attackers and defenders continually update and improve their tools and ways of working. To ensure that our managed services remain effective against the latest threats, NCC Group operates a Global Fusion Center with Fox-IT at its core. This multidisciplinary team converts our leading cyber threat intelligence into powerful detection strategies.

1. Introduction

WastedLocker is a new ransomware locker we've detected being used since *May 2020*. We believe it has been in development for a number of months prior to this and was started in conjunction



with a number of other changes we have seen originate from the *Evil Corp* group in 2020. Evil Corp were previously associated to the *Dridex* malware and *BitPaymer* ransomware, the latter came to prominence in the first half of 2017. Recently Evil Corp has changed a number of TTPs related to their operations further described in this article. We believe those changes were ultimately caused by the unsealing of indictments against *Igor Olegovich Turashev* and *Maksim Viktorovich Yakubets*, and the financial sanctions against Evil Corp in December 2019. These legal events set in motion a chain of events to disconnect the association of the current Evil Corp group and

2. At

We have
has chan
under th

2.1 A

Business
affiliation
groups, f
longer pe
the diffic
accurate

As an exa
quite fre
associati
Anunak o
TA505. He
groups h

It can als
infection
distributi

type of business, such as financial institutions. Similarly, it is easy for confusion to arise around the many financially oriented organised crime groups which are tracked publicly. *Access to victim organisations is traded as a commodity between criminal actors* and so business links often exist which are not necessarily related to the day to day operations of a group.

This website makes use of cookies.



This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

Manage your preferences at any time, on the cookie preference tool at the bottom of the screen, or if you want to learn more, please go to our [Cookie policy](#)

Accept all cookies

Reject all cookies

e group
activities

ed
n over
given
h are

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

osition
;
ty. The
d to as
these

Analytical Cookies

Off

ve of

2.2 Evil Corp

Nevertheless, despite these difficulties, we feel that we can assert the following with high confidence, due to our in depth tracking of this group as it posed a significant threat to our clients. Evil Corp has been operating the *Dridex malware* since July 2014 and provided access to several groups and individual threat actors. However, towards the end of 2017 Evil Corp became smaller and used Dridex infections almost exclusively for targeted ransomware campaigns by *deploying BitPaymer*. The majority of victims were in *North America* (mainly USA) with a smaller number i

cases. Du
out acces


In 2019 a
ransomw
cooperat
current r

After the
as group
until Janu
appearin
strategic
of March
Of course

This website makes use of cookies.

This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

Manage your preferences at any time, on the cookie preference tool at the bottom of the screen, or if you want to learn more, please go to our [Cookie policy](#) 

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

Analytical Cookies

Analytical cookies help us to improve our website by collecting and reporting information on its usage.



The group has access to *highly skilled exploit and software developers* capable of bypassing network defences on all different levels. The group seems to put a lot of effort into bypassing endpoint protection products; this observation is based on the fact that when a certain version of their malware is detected on victim networks the group is back with an undetected version and able to continue after just a short time. This shows the importance of victims fully understanding each incident that happens. That is, detection or blocking of a single element from the more advanced criminal actors does not mean they have been defeated.

victim information is the unwanted attention this would draw from law enforcement and the public.

3. Distribution

While many things have changed in the TTPs of Evil Corp recently, one very notable element has not changed, the distribution via the *SocGhosh* fake update framework. This framework is still in

use altho

rather th

evaluatio

system is

from the

set of info

to the vic

been able

4. Te

4.1 Co

The Cobā

(which ta

the AES a

hard-cod

derived f

decrypte

The seco

injector ε

loader ar

An intere

second t

detecting

then the

'FreeCons

an attempt

This website makes use of cookies.

This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

Manage your preferences at any time, on the cookie preference tool at the bottom of the

screen, or if you want to learn more, please go to our [Cookie policy](#)

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

Analytical Cookies

Analytical cookies help us to improve our website by collecting and reporting information on its usage.

'FreeConsole' function is called before loading the CobaltStrike beacon. It is assumed that this is an attempt to bypass CrowdStrike's endpoint solution, although it still unclear if this is the case.

```
CS_found_flag = 0;
if ( GetFileAttributesA("C:\\Program Files\\CrowdStrike") == -1 )
    FreeConsole();
else
    CS_found_flag = 1;
malware_load_Cobalt();
while ( 1 )
{
    Sleep(0x270Eu);
    if ( CS_found_flag )
        FreeConsole();
    CS_found_flag = 0;
}
```

4.2 The

WastedLocker
examined
as: Network

The crypter
code. We
logic app

The first
variants
or interface
UCOMIEn
the key is
analysis t

In the ne
used to j
then dec
blob whic
shellcode
API, and t

To execu
payload just

This website makes use of cookies.

This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

Manage your preferences at any time, on the cookie preference tool at the bottom of the screen, or if you want to learn more, please go to our [Cookie policy](#)

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

Analytical Cookies

Analytical cookies help us to improve our website by collecting and reporting information on its usage.

Off

As noted above, we have observed this crypter being used by other malware families as well. Related information and IOCs can be found in the Appendix.

4.3 WastedLocker Ransomware

WastedLocker aims to encrypt the files of the infected host. However before the encryption procedure runs, WastedLocker performs a few other tasks to ensure the ransomware will run properly.

First, Wastedlocker decrypts the strings which are stored in the .bss section and then calculates a DWORD value that is used later for locating decrypted strings that are related to the encryption process. This is described in more detail in the *String encryption* section. In addition, the ransomware performs a "crash dump file" operation, which involves writing a file to the system32 directory with the filename.

If the ransomware is running on Windows Vista or later, it will attempt to locate a document in the system32 directory. Next, it will create a ransomware folder located at the patched directory. The ransomware will then attempt to create a file in the system32 directory with the filename.

The ransomware will then attempt to create a file in the system32 directory with the filename.

Parameter	Description
-r	Encrypt files in a specified directory
-s	Encrypt files in a specified directory
-p	Encrypt files in a specified directory
-f	Encrypt files in a specified directory
directory_path	Encrypt files in a specified directory

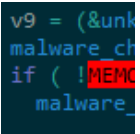
Table 1 – WastedLocker command line parameters

It is also worth noting that in case of any failure from the first two parameters (-r and -s), the ransomware proceeds with the encryption but applies the following registry modifications in the registry key Software\Microsoft\Windows\CurrentVersion\Internet Settings\ZoneMap:

Name	Modification
ProxyBypass	Deletes this key
IntranetName	Deletes this key
UNCAsIntranet	Sets this key to 0
AutoD	

This website makes use of cookies.

The above code shows that the ransomware identifies the system architecture (KUSER_SHELL) and generates a unique key for each Windows



Additionally, the ransomware generates a unique key for each system architecture and stores these keys in a separate registry value.

4.4 String Encryption

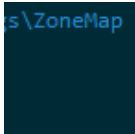
The string encryption process involves the ransomware binary file reading the ransomware address and

This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

Manage your preferences at any time, on the cookie preference tool at the bottom of the screen, or if you want to learn more, please go to our [Cookie policy](#)

ensure the architecture generating the key to work on



to industry to test their ability to be

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

Analytical Cookies

Analytical cookies help us to improve our website by collecting and reporting information on its usage.



of the binary for d raw

The code's authors use an interesting method to locate the encrypted strings related to the encryption process. To locate one of them, the ransomware calculates a checksum that is looked up in the encrypted strings table. The checksum is derived from both a constant value that is unique to each string and a fixed value, which are bitwise XORed. The encrypted strings table consists of a struct like shown below for each string.

Page 9 of 27

```
C:\>decrypter.exe
PLEASE WAIT UNTIL THE OPERATION COMPLETED...
Found 2337 matching files, 2335 decrypted, 2 failed
```

Figure 3: Command line output of the decrypter of WastedLocker

References

- [hxxps://m... 76675f6e](#)
- [hxxps://g...](#)
- [hxxps://g...](#)

Appe

Ransom r

This website makes use of cookies.

This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

Manage your preferences at any time, on the cookie preference tool at the bottom of the screen, or if you want to learn more, please go to our [Cookie policy](#)

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

Analytical Cookies

Analytical cookies help us to improve our website by collecting and reporting information on its usage.

☐ Off

*ntldr

*.386

*.adv

*.ani

*.bak

*.bat

*.bin

*.cab

*.cmd

*.com

*.cpl

*.cur

*.dat

*.diag

*.diag

*.dll

*.drv

*.exe

*.hlp

*.hta

*.icl

*.icns

*.ics

*.idx

*.ini

*.key

*.lnk

*.mod

*.msc

*.msi

*.msp

*.msstyles

*.msu

*.nls

*.nomedia

*.ocx


*.ps1

*.rom

This website makes use of cookies.

This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

Manage your preferences at any time, on the cookie preference tool at the bottom of the screen, or if you want to learn more, please go to our [Cookie policy](#) 

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

Analytical Cookies

Analytical cookies help us to improve our website by collecting and reporting information on its usage.




*.rtf
*.scr
*.sdi
*.shs
*.sys
*.theme
*.themepack
*.wim
*.wpx
*bootm
*grldr

This website makes use of cookies.

This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

Excluded

By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

Manage your preferences at any time, on the cookie preference tool at the bottom of the screen, or if you want to learn more, please go to our [Cookie policy](#) 

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

Analytical Cookies



Analytical cookies help us to improve our website by collecting and reporting information on its usage.

\$recycle.bin

appdata

bin

boot

cache

dev

etc

*initd

lib

*program

run

sbin

sys

*system

*users

var

*vmlin

*webca

*window

c:prog

c:prog

c:prog

c:reco

c:user


c:user

c:wind

This website makes use of cookies.

This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

Manage your preferences at any time, on the cookie preference tool at the bottom of the screen, or if you want to learn more, please go to our [Cookie policy](#) 

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

IoCs

Analytical Cookies



IoCs related to the case of targeted ransomware. Each ransomware victim has a custom build configured or compiled for them and so the knowing the specific hashes used against historic victims does not provide any protection at all. Even if behavioural patterns of the ransomware or network related indicators of the ransomware stage are given (should they exist), it is arguable whether detection of the attack at that stage would allow prevention of the actual attack. We do include known ransomware hashes here; however, please note that these are for RESEARCH PURPOSES ONLY. Blocking files based on these file attributes in any endpoint protection product will not provide any value.

At Fox-IT we focus mainly on detection of the initial stages of such attacks (such as the initial stage of infection) by detecting the various methods of infection delivery as well as the lateral movement stage which typically involves scanning, exploitation and/or credential dumping. Providing these IoCs to the wider public would, however, be counterproductive as the threat actors would simply change these methods or work around the indicators. However, we have included some of them to provide historical as well as current protection or detection against this particular threat.

CobaltStrike
This part
activity, u
CobaltStrike
updated

This website makes use of cookies.

This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

ent
ising
eing

By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

CobaltStrike

Manage your preferences at any time, on the cookie preference tool at the bottom of the screen, or if you want to learn more, please go to our [Cookie policy](#)

adsmar
advanc
advert
amazin
cofeed
consul
dns.pro
mwebso
rostra
traffi
typico
website

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

Analytical Cookies

☐ Off

Analytical cookies help us to improve our website by collecting and reporting information on its usage.

CobaltStrike Beacon config

SETTING_PROTOCOL: short: 8 (DNS: 0, SSL: 1)

SETTING_PORT: short: 443

SETTING_SLEEPTIME: int: 45000

SETTING_MAXGET: int: 1403644

SETTING_JITTER: short: 37

SETTING

SETTING

SETTING

ptr SE

ptr SE

ptr SE

SETTING

pr:

ap:

pr:

pr:

ba:

ma:

SETTING

_HE/

_HE/

_HE/

BUI

BAS

PRE

HEA

SETTING

_HE/

_HE/

_HE/

BUI

MASK: True

BASE64URL: True

PARAMETER: __cfduid

BUILD: output

MASK: True


BASE64URL: True

PRINT: True

This website makes use of cookies.

This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

Manage your preferences at any time, on the cookie preference tool at the bottom of the screen, or if you want to learn more, please go to our [Cookie policy](#) 

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

Analytical Cookies

Analytical cookies help us to improve our website by collecting and reporting information on its usage.




```
ptr DEPRECATED_SETTING_SPAWNTO:
ptr SETTING_SPAWNTO_X86: %windir%syswow64rundll32.exe
ptr SETTING_SPAWNTO_X64: %windir%sysnativerundll32.exe
ptr SETTING_PIPENAME:
SETTING_CRYPTO_SCHEME: short: 0 (CRYPTO_LICENSED_PRODUCT)
SETTING_DNS_IDLE: int: 1249756273
SETTING_DNS_SLEEP: int: 0
```

This website makes use of cookies.

This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

Manage your preferences at any time, on the cookie preference tool at the bottom of the screen, or if you want to learn more, please go to our [Cookie policy](#) 

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

Analytical Cookies

Analytical cookies help us to improve our website by collecting and reporting information on



WANTDI

SSL: "

MAX E


Version: CobaltStrike v4.0 (Dec 5, 2019)

Custom **CobaltStrike** loader samples (sha256 hashes):

This website makes use of cookies.

This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

Manage your preferences at any time, on the cookie preference tool at the bottom of the screen, or if you want to learn more, please go to our [Cookie policy](#) 

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

Analytical Cookies




Analytical cookies help us to improve our website by collecting and reporting information on its usage.

2f72550c99a297558235caa97d025054f70a276283998d9686c282612ebdbea0
389f2000a22e839ddafb28d9cf522b0b71e303e0ae89e5fc2cd5b53ae9256848
3dfb4e7ca12b7176a0cf12edce288b26a970339e6529a0b2dad7114bba0e16c3
714e0ed61b0ae779af573dce32cbc4d70d23ca6cfe117b63f53ed3627d121feb
810576224c148d673f47409a34bd8c7f743295d536f6d8e95f22ac278852a45f
83710bf
91e18e!
adabf8
b03546
bc1c5f
c781c5
c7cde3
f093b0

This website makes use of cookies.

This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

Manage your preferences at any time, on the cookie preference tool at the bottom of the screen, or if you want to learn more, please go to our [Cookie policy](#) 

.NET injec

6088e7:

Gozi ISFB

This part
keys for 2

Gozi C C E

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

Analytical Cookies

Analytical cookies help us to improve our website by collecting and reporting information on its usage.



ryption


bettyware.xyz
celebratering.xyz
fakeframes.xyz
gadgetops.xyz
hotphonecall.xyz
justbes
kordel
tritra
veisll
winegu

This website makes use of cookies.

This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

Gozi version By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

217119
217123

Manage your preferences at any time, on the cookie preference tool at the bottom of the screen, or if you want to learn more, please go to our [Cookie policy](#) 

Gozi Group

30000

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

Gozi RSA

0002000
45A540
0000000

Analytical Cookies

Analytical cookies help us to improve our website by collecting and reporting information on its usage.

☐ Off

276D7A
000000

Gozi serpent network encryption keys:

8EzkwaSgkg565AyQ
eptDZELKvZUseoAH
GbdG3H7PgSVEme2r
RQ5btM2UfoCHAMKN

Gozi samj

This website makes use of cookies.

5706e1f
ba71dd
c20292
cf744b

This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

WastedLc

Manage your preferences at any time, on the cookie preference tool at the bottom of the screen, or if you want to learn more, please go to our [Cookie policy](#)

5cd048
887aac
8897db
bcdac1
e3bf41
ed0632

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

The follow
CryptOne
related to

Analytical Cookies

Off

List of me

Analytical cookies help us to improve our website by collecting and reporting information on its usage.

Bot version	3.00.854
RSA key	00040000C3DC07D4E1AC941077214371F45B5FDDDF389654D0851D66809BC989AB.

to as
t those

- RC4 key
- Botnet
- Nonce
- Static c
- Version
- C Cs
- Binary

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

Off

Analytical cookies help us to improve our website by collecting and reporting information on its usage.

```
hxxp://advokat-hodonin.info/gate.php
hxxp://penaz.info/gate.php
```

Binary Distribution	http://paolets.com/install.exe
---------------------	---

SmokeLoader (MD5: 2143d279be8d1bb4110b7ebe8dc3afbc)

RC4 send	0x69A84992
RC4 recv	0x5D7C6D5B
C Cs	hxxp://flablenitev.site/index.php hxxp://lendojekam.xyz/index.php hxxp://lgrarcosbann.club/index.php

Binary

SecTool c
We have
capable c
ransomw
However
Windows

List of
Registr
Keys
checke

List of
checke

This website makes use of cookies.

This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

Manage your preferences at any time, on the cookie preference tool at the bottom of the screen, or if you want to learn more, please go to our [Cookie policy](#)

h is
d during
crosoft

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

Analytical Cookies

Off

Analytical cookies help us to improve our website by collecting and reporting information on its usage.


172821eb-729d-4307-a56f-63063b2677de
17689d7a-89bf-4e2a-a49c-9e4e5a51a9d7
197a1689-8bb1-4fcd-80e9-32b86e3751f5
1a379834-6135-41e7-9cf7-e79a9f705fbc
1cce886d-1841-4e18-963b-15f2e90a3c44
1e8e5806-2e99-4002-b62c-7a78a6641874

1f1769de-42fa-4883-b37c-f0de488de557
240187f4-b097-4a3c-a6fa-2ca5b1e0b373
25f07256-3b46-4531-aa3e-e1729d9aa7cb
274f61dd-3fed-4bfe-9aa6-8a012339a41f
27a0f05f-41fa-43f1-86b9-7e48bde3d716
2a942be2-9252-4d60-9483-3651a92192a5
2c0c5f0d-6ad7-4c97-b1a8-2c706d03a4f8

This website makes use of cookies.

This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

Manage your preferences at any time, on the cookie preference tool at the bottom of the screen, or if you want to learn more, please go to our [Cookie policy](#) 

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

Analytical Cookies



Analytical cookies help us to improve our website by collecting and reporting information on its usage.


ASUSNet20
ATYNKAJP30Z9AQ
b22d1dd8-e3ea-4764-ba9b-0ebf41fddee7
b3e32042-d969-43d1-b20c-bcf8da5ba436
beb41e13-5e33-450f-a9c5-3e5a382d224d
BiosChecksumChecker

bitcoreguard
BlueEye
c3c2a8b3-fc8a-4fe3-8f24-6f2a757a5012
ca1b68fd-56d5-4355-94b2-ed6ab0857890
CBKZiOPASRHLK
CDNetStreamer2.r05
cf3573d5-bf4f-4094-bbea-ced8efde2257

This website makes use of cookies.

This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

Manage your preferences at any time, on the cookie preference tool at the bottom of the screen, or if you want to learn more, please go to our [Cookie policy](#) 

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

Analytical Cookies



Analytical cookies help us to improve our website by collecting and reporting information on its usage.


JerkPatrol
JKLSXX1ZA1QRLER
KDOWEtRVAB
LenovoSuite
MaverickMeerkat
MDISequencer

MK5Cheats
MLIXNJ9AEGPSE
MLIXNJAEGPSE
MovieFinder
N800HANOI
NattyNarwhal
NeoNetPlasma

This website makes use of cookies.

This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

Manage your preferences at any time, on the cookie preference tool at the bottom of the screen, or if you want to learn more, please go to our [Cookie policy](#) 

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

Analytical Cookies



Analytical cookies help us to improve our website by collecting and reporting information on its usage.

VHO9AZB7HDK0WAZMM
VideoBind
VirginPoint
VirtualDesktopKeeper
VirtualPrinterDriver
VividVervet

	VRK1AlIXBJDA5U3A WinDuplicity WireDefender wwallmutex
Commands executed	C:\Windowssystem32\WindowsPowerShell\v1.0\powershell.exe Set-MpPreference -DisableBehaviorMonitoring \$true ; Set-MpPreference - ; Set-

This website makes use of cookies.

This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

Manage your preferences at any time, on the cookie preference tool at the bottom of the screen, or if you want to learn more, please go to our [Cookie policy](#)

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

Analytical Cookies

Off

Analytical cookies help us to improve our website by collecting and reporting information on its usage

Contact Us

Managed Services

24/7 Incident Response Hotline

+1-(855)-684-1212

or cirt@nccgroup.com

Incident Response


Threat Intelligence

© NCC Group

This website makes use of cookies.

This website uses cookies to ensure you get the best experience on our website. Some of these cookies are essential for the site to function, whilst others are useful to help us to analyse our traffic and collect statistics on how and when the site is being used and how it can be improved. We also share information about your use of our site with our analytics partners.

By clicking "Accept All," you consent to the storing of cookies on your device to enhance site navigation, analyse site usage, and assist in measuring the success of our marketing efforts.

Manage your preferences at any time, on the cookie preference tool at the bottom of the screen, or if you want to learn more, please go to our [Cookie policy](#) 

Necessary cookies

Necessary cookies enable core functionality as you browse our website such as session management and remembering your cookie preferences. The website cannot function properly without these cookies and can only be disabled by changing your browser preferences.

Analytical Cookies



Analytical cookies help us to improve our website by collecting and reporting information on its usage.