



## ANALYSIS REPORT

# MAR-10135536-8 – North Korean Trojan: HOPLIGHT

**Last Revised:** October 31, 2019

**Alert Code:** AR19-304A



## Notification

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## Summary

### Description

This Malware Analysis Report (MAR) is the result of analytic efforts between Department of Homeland Security (DHS), the Federal Bureau of Investigation (FBI), and the Department of Defense (DoD). Working with U.S. Government partners, DHS, FBI, and DoD identified Trojan malware variants used by the North Korean government. This malware variant is named HOPLIGHT. The U.S. Government refers to malicious cyber activity by the North Korean government as HIDDEN COBRA. For more information on HIDDEN COBRA, visit <http://www.us-cert.gov/hiddencobra>.

DHS, FBI, and DoD are distributing this MAR to enable network defense and reduce exposure to North Korean government malicious cyber activity.

This MAR includes malware descriptions related to HIDDEN COBRA, suggested response actions and recommended mitigation techniques. Users or administrators should be aware of the activity associated with the malware and report the activity to the Cybersecurity and Infrastructure Security Agency (CISA) or the FBI Cyber Watch (CyWatch), and give appropriate credit to CISA for enhanced mitigation.

This report provides analysis of twenty malicious executable files. Sixteen of these files are proxy applications that mask traffic between the malware and the target.

have the ability to generate fake TLS handshake sessions using valid public SSL certificates, disguising network connections with remote malicious actors. On certificate and the payload of the file appears to be encoded with a password or key. The remaining file does not contain any of the public SSL certificates, but and drops four files. The dropped files primarily contain IP addresses and SSL certificates.

For a downloadable copy of IOCs, see:

■ [MAR-10135536-8.v2.stix](#)

**Submitted Files (20)**

05feed9762bc46b47a7dc5c469add9f163c16df4ddaafe81983a628da5714461 (23E27E5482E3F55BF828DAB8855690...)

0608e411348905145a267a9beaf5cd3527f11f95c4afde4c45998f066f418571 (34E56056E5741F33D823859E77235E...)

084b21bc32ee19af98f85aee8204a148032ce7eabef668481b919195dd62b319 (170A55F7C0448F1741E60B01DCEC9C...)

12480585e08855109c5972e85d99cda7701fe992bc1754f1a0736f1eebcb004d (868036E102DF4CE414B0E6700825B3...)

1a01b8a4c505db70f9e199337ce7f497b3dd42f25ad06487e29385580bca3676 (07D2B057D2385A4CDF413E8D342305...)

2151c1977b4555a1761c12f151969f8e853e26c396fa1a7b74ccba3a48f4525 (5C3898AC7670DA30CF0B22075F3E8E...)

32ec329301aa4547b4ef4800159940feb950785f1ab68d85a14d363e0ff2bc11 (38FC56965DCCD18F39F8A945F6EBC4...)

4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761 (42682D4A78FE5C2EDA988185A34463...)

4c372df691fc699552f81c3d3937729f1dde2a2393f36c92ccc2bd2a033a0818 (C5DC53A540ABE95E02008A04A0D56D...)

70034b33f59c6698403293cdc28676c7daa8c49031089efa6eefce41e22dccb3 (61E3571B8D9B2E9CCFADC3DDE10FB6...)

73dcb7639c1f81d3f7c4931d32787bdf07bd98550888c4b29b1058b2d5a7ca33 (3EDCE4D49A2F31B8BA9BAD0B8EF549...)

83228075a604e955d59edc760e4c4ed16eedabfc8f6ac291cf21b4fcbcd1f70a (3021B9EF74c&BDDF59656A035F94FD...)

8a1d57ee05d29a730864299376b830a7e127f089e500e148d96d0868b7c5b520 (5C0C1B4C3B1CFD455AC05ACE994AED...)

b05aae59b3c1d024b19c88448811debef1eada2f51761a5c41e70da3db7615a9 (2FF1688FE866EC2871169197F9D469...)

b9a26a569257fbe02c10d3735587f10ee58e4281dba43474dbdef4ace8ea7101 (2A791769AA73AC757F210F8546125B...)

c66ef8652e15b579b409170658c95d35cfd6231c7ce030b172692f911e7dcff8 (E4ED26D5E2A84CC5E48D285E4EA898...)

d77fdabe17cdba62a8e728cbe6c740e2c2e541072501f77988674e07a05dfb39 (F8D26F2B8DD2AC4889597E1F2FD1F2...)

ddea408e178f0412ae78ff5d5adf2439251f68cad4fd853ee466a3c74649642d (BE588CD29B9DC6F8CFC4D0AA5E5C79...)

f8f7720785f7e75bd6407ac2acd63f90ab6c2907d3619162dc41a8ffa40a5d03 (D2DA675A8ADFEF9D0C146154084FFF...)

fe43bc385b30796f5e2d94dfa720903c70e66bc91dfdcfb2f3986a1fea3fe8c5 (F315BE41D9765D69AD60F0B4D29E43...)

**Additional Files (4)**

49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359 (rdppproto.dll)

70902623c9cd0cccc8513850072b70732d02c266c7b7e96d2d5b2ed4f5edc289 (udbcgiut.dat)

96a296d224f285c67bee93c30f8a309157f0daa35dc5b87e410b78630a09cfc7 (MSDFMAPI.INI)

cd5ff67ff773cc60c98c35f9e9d514b597cbd148789547ba152ba67bfc0fec8f (UDPTTrcSvc.dll)

**IPs (22)**

112.175.92.57

113.114.117.122

117.239.241.2

119.18.230.253

128.200.115.228

137.139.135.151

14.140.116.172

181.39.135.126

186.169.2.237

195.158.234.60

197.211.212.59

21.252.107.198

210.137.6.37

218.255.24.226

221.138.17.152

26.165.218.44

47.206.4.145

70.224.36.194

81.94.192.10

81.94.192.147

84.49.242.125

97.90.44.200

Findings

05feed9762bc46b47a7dc5c469add9f163c16df4ddaafe81983a628da5714461

Tags

trojan

Details

Name
Size
Type

23E27E5482E3F55BF828DAB885569033

242688 bytes

PE32 executable (GUI) Intel 80386, for MS Windows

MD5	23e27e5482e3f55bf828dab885569033
SHA1	139b25e1ae32a8768238935a8c878bfbe2f89ef4
SHA256	05feed9762bc46b47a7dc5c469add9f163c16df4ddaafe81983a628da5714461
SHA512	2c481ef42dfc9a7a30575293d09a6f81943e307836ec5b8a346354ab5832c15046dd4015a65201311e33f944763fc55dd44fbe39024
ssdeep	6144:YnDIYMzUvLFOL9wqk6+pqC8ioolBgajvQlm/Z0cp1:alYiXioolKajvQeZ3
Entropy	6.537337

Antivirus

Ahnlab	Trojan/Win32.Generic
Antiy	Trojan/Win32.Casdet
Avira	TR/NukeSped.uxivj
BitDefender	Trojan.GenericKD.41198265
Cyren	W32/Trojan.LXQN-3818
ESET	a variant of Win32/NukeSped.AI trojan
Emsisoft	Trojan.GenericKD.41198265 (B)
Ikarus	Trojan.Win32.NukeSped
K7	Trojan ( 005329311 )
McAfee	Trojan-Hopligh
Microsoft Security Essentials	Trojan:Win32/Hopligh
Quick Heal	Trojan.Hopligh.S5793599
Sophos	Troj/Hopligh-C
Symantec	Trojan.Hopligh
TrendMicro	Trojan.55DEE3DA
TrendMicro House Call	Trojan.55DEE3DA

VirusBlokAda

Trojan.Casdet

Yara Rules

hidden\_cobra\_consolidated.yara

rule hoplight { meta: Author = "CISA trusted 3rd party" Incident = "10135536" Date = "2019-08-14" Category = "HOPLIGHT" Description = "Detects polarSSL certificates" strings: \$polarSSL = "fjiejffndxklfsdkfjsaadiepwn" 56 b4 c2 } \$p3 = { 55 84 26 fe } condition: (uint16(0) == 0x5A4D and uint16(uint32(0x3c)) == 0x4550) and (\$polarSSL == \$p3)

ssdeep Matches

No matches found.

PE Metadata

Compile Date

2017-06-05 21:57:29-04:00

Import Hash

ff390ec082b48263a3946814ea18ba46

PE Sections

MD5	Name	Raw Size	Entropy
c06924120c87e2cb79505e4ab0c2e192	header	1024	2.542817
3368eda2d5820605a055596c7c438f0f	.text	197120	6.441545
ec1f06839fa9bc10ad8e183b6bf7c1b5	.rdata	27136	5.956914
1e62b7d9f7cc48162e0651f7de314c8a	.data	8192	4.147893
980effd28a6c674865537f313318733a	.rsrc	512	5.090362
696fd5cac6e744f336e8ab68a4708fcf	.reloc	8704	5.247502

Packers/Compilers/Cryptors

Microsoft Visual C++ ??

Description

This artifact is a malicious 32-bit Windows executable. When executed the malware will collect system information about the victim machine including OS Version, System Time, as well as enumerate the system drives and partitions.

The malware is capable of the following functions:

---Begin Malware Capability---

Read, Write, and Move Files

Enumerate System Drives

Create and Terminate Processes

Inject into Running Processes

Create, Start and Stop Services

Modify Registry Settings

Connect to a Remote Host

Upload and Download Files

---End Malware Capability---

The malware family has 2 versions. Both are nearly identical in functionality but use slightly different command codes. So if the opcode for Keepalive in version 1 will be 0xB6C2.

There may be some versions of the malware that have limited/additional functionality, but most will have these command codes:

---Begin Version 1 Command Codes---

0xB6A4 GetComputerInfo

-Gets OS Version

-Opens and sends back multiple registry keys

Keys are encrypted in actually binary using RC4 with 16 byte key (af 3d 78 23 4a 79 92 81 9d 7f 20 47 ad e3 f2 b3). Keys are decrypted prior to calling

-Calls GetSystemInfo, returns results of a SYSTEM\_INFO struct

-Calls GetSystemMetrics and returns results

#### 0xB6A5 GetDrivesInfo

-Gets info about different drives/share drives on system as well as memory available/memory used on those drives

#### 0xB6A6 Directorylist

-Gives list of all files in a directory that is specified by the C2

#### 0xB6A7 SendFile

-Sends a file from the victim machine to the C2 that is specified by the C2

#### 0xB6A8 ReceiveFile

-Victim machine receives file from the C2

#### 0xB6A9 CreateProcess

-Calls CreateProcessW to run a process via the command line. C2 specifies the path of the file to be run via command line.

#### 0xB6AA EnableLogging

-Prior to victim and C2 closing out a connection the victim will spawn a new thread that will compile a comprehensive log of system/session information. Inside of the log is a file named randomly and places it in the temp directory. It puts all the log results into this file.

#### 0xB6AB Deletefile

-Deletes file specified by the C2.

#### 0xB6AC RunCmdPipe

-Runs CreateProcessW to run a process via the command line. The process will be cmd.exe and the arguments will be the windows cmd command that the C2 supplies. The command will be sent to a temporary file and then read back to the C2 from that file. Afterwards that file is deleted.

#### 0xB6AD Processlist

-Gets a list of processes

#### 0xB6AE KillProcess

-Kills process based on the PID that the C2 supplies.

#### 0xB6AF TestEncryption

-Tests LFSR encryption, no real functionality

#### 0xB6B0 Uninstall

-Uninstalls the implant from the victim box

0xB6B2 GetConfig

-Gets the current callback config file from memory, returns the list to C2. There are 10 IP options in this config.

0xB6B3 SetConfig

-Gets the current callback config file from memory, allows C2 to change the configurations. This will change the beacon IP to whatever the C2 wants.

0xB6B4 SetCurrentDirectory

-Changes current working directory to the path supplied by C2

0xB6B5 GetCurrentDirectory

-Gets the current working directory and returns it to the C2

0xB6C1 KeepAlive

-C2s sends this as a keep alive to the victim, victim responds with confirmation that it received the keep alive and keeps session open

---End Version 1 Command Codes---

The malware is capable of opening and binding to a socket. The malware uses a public SSL certificate for secure communication. This certificate is from www.nhcloud.com, the largest search engine in Korea and provides a variety of web services to clients around the world.

The malware uses the default certificates/private keys that come with PolarSSL. These are generally used for testing purposes only. Additionally the C2 IPs the malware connects to for handshake require the malware to respond back with a client key. This key is also a default key found within the PolarSSL libraries.

---Begin SSL Certificate Header---

1 0 UNL10U

PolarSSL10UPolarSSL Test CA0

110212144407Z



```
2102121144407Z0<1 0 UNL10U
```

```
PolarSSL10UPolarSSL Client 200
```

```
---End SSL Certificate Header---
```

When executed, the malware will attempt a TLS Handshake with one of four hardcoded IP addresses embedded in the malware. These IP addresses are referred to as the "C2" addresses. The malware also contains an embedded Zlib compression library that appears to further obfuscate the communications payload.

After the TLS authentication is completed this particular malware does NOT use the session key that is generated via TLS. It uses a custom Linear Feedback Shift Register (LFSR) scheme to encrypt all communications after the completion of the handshake. A python script to decrypt traffic is given below:

```
---Begin LFSR Decryption Script---
```

```
class lfsr:
```

```
    def _init_(self):
```

```
        self.b = (0, 0, 0, 0)
```

```
        self.data = b"
```

```
        self.L= 0
```

```
    def lfsr_init(self, data):
```

```
        self.L = len(data)
```

```
        self.data = data
```

```
        self.b[0] = 0
```

```
        self.b[1] = 0xc2b45678
```

```
        self.b[2] = 0x90abcdef
```

```
        self.b[3] = 0xfe268455
```

```
for i in range(int(self.L / 3)):
```

```
    self.b[1] ^= self.b[2]
```

```
    self.b[2] ^= self.b[3]
```

```
    self.b[3] ^= self.b[1]
```

```
for i in range(self.L % 3):
```

```
    self.b[1] |= self.b[2]
```

```
    self.b[2] |= self.b[3]
```

```
    self.b[3] |= self.b[1]
```

```
def lfsr_1(self):
```

```
    r = 0
```

```
    if (self.b[1] & 0x200) == 0x200:
```

```
        r += 1
```

```
    if (self.b[2] & 0x800) == 0x800:
```

```
        r += 1
```

```
    if (self.b[3] & 0x800) == 0x800:
```

```
        r += 1
```

```
    if r <= 1:
```

```
        self.b[0] = 1
```

```
    else:
```

```
        self.b[0] = 0
```

```
def lfsr_2(self):

    v1 = self.b[1]

    r = (self.b[1] >> 9) & 1

    v3 = r == self.b[0]

    self.b[0] ^= r

    if not v3:

        r = (v1 ^ ((v1 ^ ((v1 ^ (v1 >> 1)) >> 1)) >> 3)) >> 13

        v4 = 2 * (v1 & 0x3ffff)

        self.b[1] = v4

        if (r & 1):

            self.b[1] = v4 ^ 1
```

```
def lfsr_3(self):

    v1 = self.b[2]

    r = (self.b[2] >> 11) & 1

    v3 = r == self.b[0]

    self.b[0] ^= r

    if not v3:

        r = (v1 ^ ((v1 ^ ((v1 ^ (v1 >> 1)) >> 4)) >> 4)) >> 12

        v4 = 2 * (v1 & 0x1fffff)

        self.b[2] = v4

        if (r & 1):

            self.b[2] = v4 ^ 1
```

```
def lfsr_4(self):
```

```
v1 = self.b[3]

r = (self.b[3] >> 11) & 1

v3 = r == self.b[0]

self.b[0] ^= r

if not v3:

    r = (v1 ^ ((v1 ^ ((v1 ^ (v1 >> 1)) >> 3)) >> 1)) >> 17

    v4 = 2 * (v1 & 0x3fffff)

    self.b[3] = v4

    if (r & 1):

        self.b[3] = v4 ^ 1


def lfsr_genKeyByte(self):

    self.lfsr_1()

    self.lfsr_2()

    self.lfsr_3()

    self.lfsr_4()

    v2 = self.b[1] ^ self.b[2] ^ self.b[3]

    r = (v2 >> 0x18) ^ (v2 >> 0x10) ^ (v2 >> 0x8) ^ v2

    r &= 0xff

    return r


def crypt(self):

    r= b"

    for i in range(len(self.data)):
```

```
k = self.lfsr_genKeyByte()

r += bytes([self.data[i] ^ k])

return r
```

---End LFSR Decryption Script---

The following notable strings have been linked to the use of the SSL certificates and can be used to identify the malware:

---Begin Notable Strings---

fjiejffndxklfsdkfjsaadiepwn

ofuierfsdkljffjoiejftyuir

reykfgkodfgkfdskgdfogpdokgsdfpg

ztretirtireotreotieroptkierert

etudjfirejer

yrtty

uiyy

uiyiyj lildvucv

erfdfe poiiumwq

---End Notable Strings---

The next four artifacts contain identical characteristics as those described above. Therefore, only capability that is unique will be described for the following

2151c1977b4555a1761c12f151969f8e853e26c396fa1a7b74ccba3a48f4525

#### Tags

trojan

Details

Name	5C3898AC7670DA30CF0B22075F3E8ED6
Size	221184 bytes
Type	PE32 executable (GUI) Intel 80386, for MS Windows
MD5	5c3898ac7670da30cf0b22075f3e8ed6
SHA1	91110c569a48b3ba92d771c5666a05781fdd6a57
SHA256	2151c1977b4555a1761c12f151969f8e853e26c396fa1a7b74ccba3a48f4525
SHA512	700ec4d923cf0090f4428ac3d4d205b551c3e48368cf90d37f9831d8a57e73c73eb507d1731662321c723362c9318c3f01971699107
ssdeep	3072:nKBzqEHcJw0sqz7vLFOLBAqui1mqLK1VaU9BzNRyHmdMaF0QqWN0Qjpthmu:nKg0cJ19z7vLFOLSqp0q7syHeFhnhm
Entropy	6.346504

Antivirus

Ahnlab	Trojan/Win32.Generic
Antiy	Trojan/Win32.NukeSped
Avira	TR/NukeSped.bqdkh
BitDefender	Trojan.GenericKD.41198269
Cyren	W32/Trojan.MYIL-1461
ESET	a variant of Win32/NukeSped.AI trojan
Emsisoft	Trojan.GenericKD.41198269 (B)
Ikarus	Trojan.Win32.NukeSped
K7	Trojan ( 005329311 )
McAfee	Trojan-Hopligh
Microsoft Security Essentials	Trojan:Win32/Hopligh
Quick Heal	Trojan.Hopligh.S5774771
Sophos	Troj/Hopligh-C

Symantec	Trojan.Hopligh
TrendMicro	Trojan.55DEE3DA
TrendMicro House Call	Trojan.55DEE3DA
VirusBlokAda	BScope.Trojan.Casdet

Yara Rules

hidden_cobra_consolidated.yara	rule hoplight { meta: Author = "CISA trusted 3rd party" Incident = "10135536" Date = "2019-08-14" Category = "I "HOPLIGHT" Description = "Detects polarSSL certificates" strings: \$polarSSL = "fjiejffndxklfsdkfjsaadiepwn" : 56 b4 c2 } \$p3 = { 55 84 26 fe } condition: (uint16(0) == 0x5A4D and uint16(uint32(0x3c)) == 0x4550) and (\$pol
--------------------------------	---

ssdeep Matches

No matches found.

PE Metadata

Compile Date	2017-05-16 02:35:55-04:00
Import Hash	6ffc5804961e26c43256df683fea6922

PE Sections

MD5	Name	Raw Size	Entropy
adb596d3ceae66510778e3bf5d4d9582	header	4096	0.695660
6453931a0b6192e0bbd6476e736ca63f	.text	184320	6.343388
0ba1433cc62ba7903ada2f1e57603e83	.rdata	16384	6.246206
76a08265777f68f08e5e6ed2102cb31d	.data	12288	4.050945
cb8939d6bc1cd076acd850c3850bdf78	.rsrc	4096	3.289605

Packers/Compilers/Cryptors

Microsoft Visual C++ v6.0
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Relationships

2151c1977b...	Connected_To	81.94.192.147
2151c1977b...	Connected_To	112.175.92.57

2151c1977b...	Related_To	181.39.135.126
2151c1977b...	Related_To	197.211.212.59
2151c1977b...	Related_To	70902623c9cd0cccc8513850072b70732d02c266c7b7e96d2d5b2ed4f5edc289
2151c1977b...	Dropped	96a296d224f285c67bee93c30f8a309157f0daa35dc5b87e410b78630a09cfc7

Description

This artifact is a malicious PE32 executable with similar characteristics of those described in 23E27E5482E3F55BF828DAB885569033 above.

When this artifact is executed, it will write the file 'udbcgiut.dat' to C:\Users\<user>\AppData\Local\Temp.

The malware will then attempt outbound SSL connections to 81.94.192.147 and 112.175.92.57. Both connection attempts are over TCP Port 443.

The two IP addresses above, as well as the IP addresses 181.39.135.126 and 197.211.212.59 are hard-coded into the malware. However, only connections to the latter were attempted during analysis.

197.211.212.59

Ports

- 7443 TCP

Whois

inetnum:	197.211.208.0-197.211.215.255
netname:	ZOL-16e-MOBILE-CUSTOMERS
descr:	ZOL Customers on ZTE Mobile WiMAX Platform
country:	ZW
admin-c:	BS10-AFRINIC
admin-c:	GJ1-AFRINIC
admin-c:	JHM1-AFRINIC
tech-c:	BS10-AFRINIC
tech-c:	GJ1-AFRINIC
tech-c:	JHM1-AFRINIC



status: ASSIGNED PA

mnt-by: LIQUID-TOL-MNT

source: AFRINIC # Filtered

parent: 197.211.192.0-197.211.255.255

person: B Siwela

address: 3rd Floor Greenbridge South

address: Eastgate Center

address: R. Mugabe Road

address: Harare

address: Zimbabwe

phone: +263774673452

fax-no: +2634702375

nic-hdl: BS10-AFRINIC

mnt-by: GENERATED-DVCNVXWBH3VN3XZXTRPHOT00J77GUNN3-MNT

source: AFRINIC # Filtered

person: G Jaya

address: 3rd Floor Greenbridge South

address: Eastgate Center

address: R. Mugabe Road

address: Harare

address: Zimbabwe

phone: +263773373135

fax-no: +2634702375

nic-hdl: GJ1-AFRINIC

mnt-by: GENERATED-QPEEUIPPW1WPRZ5HLHRXAVHDOKWLC9UC-MNT

source: AFRINIC # Filtered

person: John H Mwangi

address: Liquid Telecom Kenya

address: P.O.Box 62499 -00200

address: Nairobi Kenya

address: Nairobi, Kenya

address: Kenya

phone: + 254 20 556 755

Relationships

197.211.212.59	Related_To	2151c1977b4555a1761c12f151969f8e853e26c396fa1a7b74ccba3a48f4525
197.211.212.59	Connected_From	ddea408e178f0412ae78ff5d5adf2439251f68cad4fd853ee466a3c74649642d
197.211.212.59	Connected_From	70034b33f59c6698403293cdc28676c7daa8c49031089efa6eefce41e22dcc3

Description

This IP address is listed in the file 'udbcgiut.dat'. Outbound SSL connection attempts are made to this IP by Malware2.exe, Malware3.exe, and Malware5.exe. 7 associated with the IP address, however, no DNS query is made for the name.

181.39.135.126

Ports

- 7443 TCP

Whois

inetnum: 181.39.135.120/29

status: reallocated

owner: Clientes Guayaquil

ownerid: EC-CLGU1-LACNIC

responsible: Tomislav Topic

address: Kennedy Norte Mz. 109 Solar 21, 5, Piso 2

address: 5934 - Guayaquil - GY

country: EC

phone: +593 4 2680555 [101]

owner-c: SEL

tech-c: SEL

abuse-c: SEL

created: 20160720

changed: 20160720

inetnum-up: 181.39/16

nic-hdl: SEL

person: Carlos Montero

e-mail: networking@TELCONET.EC

address: Kennedy Norte MZ, 109, Solar 21

address: 59342 - Guayaquil -

country: EC

phone: +593 42680555 [4601]

created: 20021004

changed: 20170323

Relationships

181.39.135.126	Related_To	2151c1977b4555a1761c12f151969f8e853e26c396fa1a7b74ccba3a48f4525
181.39.135.126	Connected_From	ddea408e178f0412ae78ff5d5adf2439251f68cad4fd853ee466a3c74649642d

181.39.135.126      Connected\_From      70034b33f59c6698403293cdc28676c7daa8c49031089efa6eefce41e22dccb3

**Description**

This IP address is listed in the file 'udbcgiut.dat'. Outbound SSL connection attempts are made to this IP by Malware2.exe, Malware3.exe, and Malware5.exe. address.

112.175.92.57

**Ports**

- 443 TCP

**Whois**

inetnum: 112.160.0.0 -112.191.255.255

netname: KORNET

descr: Korea Telecom

admin-c: IM667-AP

tech-c: IM667-AP

country: KR

status: ALLOCATED PORTABLE

mnt-by: MNT-KRNIC-AP

mnt-irt: IRT-KRNIC-KR

last-modified: 2017-02-03T02:21:58Z

source: APNIC

irt: IRT-KRNIC-KR

address: Seocho-ro 398, Seocho-gu, Seoul, Korea

e-mail: hostmaster@nic.or.kr

abuse-mailbox: hostmaster@nic.or.kr

admin-c: IM574-AP

tech-c: IM574-AP

auth: # Filtered

mnt-by: MNT-KRNIC-AP

last-modified: 2017-10-19T07:36:36Z

source: APNIC

person: IP Manager

address: Gyeonggi-do Bundang-gu, Seongnam-si Buljeong-ro 90

country: KR

phone: +82-2-500-6630

e-mail: kornet\_ip@kt.com

nic-hdl: IM667-AP

mnt-by: MNT-KRNIC-AP

last-modified: 2017-03-28T06:37:04Z

source: APNIC

Relationships

112.175.92.57	Connected_From	2151c1977b4555a1761c12f151969f8e853e26c396fa1a7b74ccbaf3a48f4525
112.175.92.57	Connected_From	ddea408e178f0412ae78ff5d5adf2439251f68cad4fd853ee466a3c74649642d
112.175.92.57	Connected_From	70034b33f59c6698403293cdc28676c7daa8c49031089efa6eefce41e22dccb3
112.175.92.57	Connected_From	83228075a604e955d59edc760e4c4ed16eedabfc8f6ac291cf21b4fcbcd1f70a

Description

This IP address is listed in the file 'udbcgiut.dat'. Outbound SSL connection attempts are made to this IP by Malware2.exe, Malware3.exe, and Malware5.exe. This IP address is not associated with the IP address, however, no DNS query is made for the name.

81.94.192.147

Ports

- 443 TCP

Whois

inetnum: 81.94.192.0-81.94.192.255

netname: IOMARTHOSTING

descr: iomart Hosting Limited

country: GB

admin-c: RA1415-RIPE

tech-c: RA1415-RIPE

status: ASSIGNED PA

remarks: ABUSE REPORTS: abuse@redstation.com

mnt-by: REDSTATION-MNT

mnt-domains: REDSTATION-MNT

mnt-routes: REDSTATION-MNT

created: 2016-02-14T11:44:25Z

last-modified: 2016-02-14T11:44:25Z

source: RIPE

role: Redstation Admin Role

address: Redstation Limited

address: 2 Frater Gate Business Park

address: Aerodrome Road

address: Gosport

address: Hampshire

address: PO13 0GW

address: UNITED KINGDOM

abuse-mailbox: abuse@redstation.com

e-mail: abuse@redstation.com

nic-hdl: RA1415-RIPE

mnt-by: REDSTATION-MNT

created: 2005-04-22T17:34:33Z

last-modified: 2017-05-02T09:47:13Z

source: RIPE

% Information related to '81.94.192.0/24AS20860'

route: 81.94.192.0/24

descr: Wayne Dalton-Redstation Ltd

origin: AS20860

mnt-by: GB10488-RIPE-MNT

created: 2015-11-03T12:58:00Z

last-modified: 2015-11-03T12:58:00Z

source: RIPE

Relationships

81.94.192.147	Connected_From	2151c1977b4555a1761c12f151969f8e853e26c396fa1a7b74ccba3a48f4525
81.94.192.147	Connected_From	ddea408e178f0412ae78ff5d5adf2439251f68cad4fd853ee466a3c74649642d
81.94.192.147	Connected_From	70034b33f59c6698403293cdc28676c7daa8c49031089efa6eefce41e22dccb3

Description

This IP address is listed in the file 'udbcgiut.dat'. Outbound SSL connection attempts are made to this IP by Malware2.exe, Malware3.exe, and Malware5.exe. address.  
70902623c9cd0cccc8513850072b70732d02c266c7b7e96d2d5b2ed4f5edc289

Tags

trojan

Details

Name	udbcgiut.dat
Size	1171 bytes
Type	data
MD5	ae829f55db0198a0a36b227addcdeeff
SHA1	04833210fa57ea70a209520f4f2a99d049e537f2
SHA256	70902623c9cd0cccc8513850072b70732d02c266c7b7e96d2d5b2ed4f5edc289
SHA512	1b4509102ac734ce310b6f8631b1bedd772a38582b4feda9fee09f1edd096006cf5ba528435c844effa97f95984b07bd2c111aa480bb
ssdeep	3:ElclFUI8GIFcmzkXlil23X1ll:ElcUXmQkXQ3
Entropy	0.395693

Antivirus

Ahnlab	BinImage/Hoplight
Antiy	Trojan/Generic.Generic
Ikarus	Trojan.Win32.Hoplight
McAfee	Trojan-Hoplight.b
Microsoft Security Essentials	Trojan:Win32/Hoplight
TrendMicro	Trojan.22D9D34C
TrendMicro House Call	Trojan.22D9D34C

Yara Rules

No matches found.

ssdeep Matches

No matches found.

Relationships

70902623c9...	Dropped_By	70034b33f59c6698403293cdc28676c7daa8c49031089efa6eefce41e22dccb3
70902623c9...	Related_To	ddea408e178f0412ae78ff5d5adf2439251f68cad4fd853ee466a3c74649642d



70902623c9...	Related_To	2151c1977b4555a1761c12f151969f8e853e26c396fa1a7b74ccbaf3a48f4525
70902623c9...	Related_To	70034b33f59c6698403293cdc28676c7daa8c49031089efa6eefce41e22dccb3
70902623c9...	Related_To	12480585e08855109c5972e85d99cda7701fe992bc1754f1a0736f1eebcb004d

Description

'udbcgiut.dat' is dropped by three of the four PE32 executables. This file contains a 32byte unicode string uniquely generated for the infected system, as well as a 32byte hexadecimal.

---Begin Decoded Socket Pairs---

197.211.212.59:443

181.39.135.126:443

112.175.92.57:7443

81.94.192.147:7443

---End Decoded Socket Pairs---

The unicode string generated during this analysis was '8a9b11762b96c4b6'. The socket pairs remain the same for all instances of the malware.

For the PE32 executables, 'udbcgiut.dat' was dropped in the victim's profile at %AppData%\Local\Temp. For the 64bit executables, 'udbcgiut.dat' was dropped in the victim's profile at %AppData%\Local\Temp. The file name for all instances is 4c372df691fc699552f81c3d3937729f1dde2a2393f36c92ccc2bd2a033a0818

Tags

trojan

Details

Name	C5DC53A540ABE95E02008A04A0D56D6C
Size	241152 bytes
Type	PE32 executable (GUI) Intel 80386, for MS Windows
MD5	c5dc53a540abe95e02008a04a0d56d6c

SHA1	4cfe9e353b1a91a2add627873846a3ad912ea96b
SHA256	4c372df691fc699552f81c3d3937729f1dde2a2393f36c92ccc2bd2a033a0818
SHA512	fc33c99facfbc98d164e63167353bdcff7c1704810e4bb64f7e56812412d84099b224086c04aea66e321cd546d8cf6f14196f5b58d5e
ssdeep	6144:LA5cWD93YuzTvLFOLoqbWbnuX7ZEAV6efA/Pawzq:Xc93YbLZEAV6mX
Entropy	6.534884

Antivirus

Ahnlab	Trojan/Win32.Hopligh
Antiy	Trojan/Win32.Casdet
Avira	TR/NukeSped.qdbcu
BitDefender	Trojan.GenericKD.31879714
ESET	a variant of Win32/NukeSped.AS trojan
Emsisoft	Trojan.GenericKD.31879714 (B)
Ikarus	Trojan.Win32.NukeSped
K7	Trojan ( 0051d4f01 )
McAfee	Trojan-Hopligh
Microsoft Security Essentials	Trojan:Win32/Hopligh
Quick Heal	Trojan.Hopligh.S5793599
Sophos	Troj/Hopligh-C
Symantec	Trojan.Hopligh
TrendMicro	Trojan.55DEE3DA
TrendMicro House Call	Trojan.55DEE3DA
VirusBlokAda	Trojan.Casdet

Yara Rules

hidden\_cobra\_consolidated.yara

rule hoplight { meta: Author = "CISA trusted 3rd party" Incident = "10135536" Date = "2019-08-14" Category = "HOPLIGHT" Description = "Detects polarSSL certificates" strings: \$polarSSL = "fjiejffndxklfsdkfjsaadiepwn" : 56 b4 c2 } \$p3 = { 55 84 26 fe } condition: (uint16(0) == 0x5A4D and uint16(uint32(0x3c)) == 0x4550) and (\$polarSSL == \$p3)

ssdeep Matches

No matches found.

PE Metadata

Compile Date
Import Hash

2017-06-04 21:31:07-04:00  
c76f6bb3f2ce6f4ce3e83448836f3ddd

PE Sections

MD5	Name	Raw Size	Entropy
64cb3246aafa83129f7fd6b25d572a9f	header	1024	2.625229
e8c15e136370c12020eb23545085b9f6	.text	196096	6.431942
cf0eb4ad22ac1ca687b87a0094999ac8	.rdata	26624	5.990247
b246681e20b3c8ff43e1fcf6c0335287	.data	8192	4.116777
6545248a1e3449e95314cbc874837096	.rsrc	512	5.112624
31a7ab6f707799d327b8425f6693c220	.reloc	8704	5.176231

Packers/Compilers/Cryptors

Microsoft Visual C++ ??

Description

This artifact is a malicious PE32 executable with similar characteristics of those described in 23E27E5482E3F55BF828DAB885569033 above.

This artifact appears to be named 'lamp.exe'. The malware contains the following debug pathway:

---Begin Debug Pathway---

Z:\Develop\41.LampExe\Release\LampExe.pdb

---End Debug Pathway---  
ddea408e178f0412ae78ff5d5adf2439251f68cad4fd853ee466a3c74649642d

Tags

adwaretrojan

Details

Name	BE588CD29B9DC6F8CFC4D0AA5E5C79AA
Name	ddea408e178f0412ae78ff5d5adf2439251f68cad4fd853ee466a3c74649642d
Size	267776 bytes
Type	PE32 executable (GUI) Intel 80386, for MS Windows
MD5	be588cd29b9dc6f8cfc4d0aa5e5c79aa
SHA1	06be4fe1f26bc3e4bef057ec83ae81bd3199c7fc
SHA256	ddea408e178f0412ae78ff5d5adf2439251f68cad4fd853ee466a3c74649642d
SHA512	c074ec876350b3ee3f82208041152c0ecf25cc8600c8277eec389c253c12372e78da59182a6df8331b05e0eefb07c142172951115a58
ssdeep	6144:UEFpmt3md/iA3uiyzOvLFOLYqnHGZlDwf/OYy85eqmJKRPg:/PQ3mJxeigqi/OYy+/g
Entropy	6.554499

Antivirus

Ahnlab	Trojan/Win32.Generic
Antiy	Trojan/Win32.Casdet
Avira	TR/NukeSped.yvkuj
BitDefender	Trojan.GenericKD.31879713
Cyren	W32/Trojan.TBKF-4720
ESET	a variant of Win32/NukeSped.AI trojan
Emsisoft	Trojan.GenericKD.31879713 (B)
Filseclab	Adware.Amonetize.heur.xjym.mg

Ikarus	Trojan.Win32.NukeSped
K7	Trojan ( 005329311 )
McAfee	Trojan-Hopligh
Microsoft Security Essentials	Trojan:Win32/Nukesped.PAIMTB
Quick Heal	Trojan.Generic
Sophos	Troj/Hopligh-C
Symantec	Trojan.Hopligh
TrendMicro	Trojan.55DEE3DA
TrendMicro House Call	Trojan.55DEE3DA
VirusBlokAda	BScope.Trojan.Casdet

Yara Rules

hidden_cobra_consolidated.yara	rule hoplight { meta: Author = "CISA trusted 3rd party" Incident = "10135536" Date = "2019-08-14" Category = "HOPLIGHT" Description = "Detects polarSSL certificates" strings: \$polarSSL = "fjiejffndxklfsdkfjsaadiepwn" 56 b4 c2 } \$p3 = { 55 84 26 fe } condition: (uint16(0) == 0x5A4D and uint16(uint32(0x3c)) == 0x4550) and (\$polarSSL == \$p3)
--------------------------------	--

ssdeep Matches

No matches found.

PE Metadata

Compile Date	2017-06-06 10:33:38-04:00
Import Hash	8184d5d35e3a4640bb5d21698a4b6021

PE Sections

MD5	Name	Raw Size	Entropy
59b5d567b9b7b9da0ca0936675fd95fe	header	1024	2.658486
c0b6929e0f01a7b61bde3d7400a801e0	.text	218624	6.470188
ce1e5ab830fcfaa2d7bea92f56e9026e	.rdata	27136	5.962575
006bad003b65738ed203a576205cc546	.data	8192	4.157373

992987e022da39fcdbeede8ddd48f226	.rsrc	3072	5.511870
4be460324f0f4dc1f6a0983752094cce	.reloc	9728	5.303151

Packers/Compilers/Cryptors

Microsoft Visual C++ ?.

Relationships

ddea408e17...	Connected_To	81.94.192.147
ddea408e17...	Connected_To	112.175.92.57
ddea408e17...	Connected_To	181.39.135.126
ddea408e17...	Connected_To	197.211.212.59
ddea408e17...	Related_To	70902623c9cd0cccc8513850072b70732d02c266c7b7e96d2d5b2ed4f5edc289
ddea408e17...	Connected_To	81.94.192.10

Description

This artifact is a malicious PE32 executable with similar characteristics of those described in 23E27E5482E3F55BF828DAB885569033 above.

This program attempts to initiate a TLS Handshake to the four IP/Port pairs listed in 'udbcgiut.dat'. If the program is unable to establish a connection, the file 'u

After 'udbcgiut.dat' is deleted, an outbound SSL connection is made to 81.94.192.10. The IP address is hard coded in the malware and are not randomly gener

This artifact also loads several APIs that are commonly associated with Pass-The-Hash (PTH) toolkits, indicating a capability to harvest user credentials and pa

---Begin Common PTH APIs---

SamiChangePasswordUser

SamFreeMemory

SamCloseHandle

SamOpenUser

SamLookupNamesInDomain

SamOpenDomain

SamConnect

---End Common PTH APIs---

81.94.192.10

**Whois**

Domain name:

redstation.net.uk

Registrant:

Redstation Limited

Registrant type:

UK Limited Company, (Company number: 3590745)

Registrant's address:

2 Frater Gate Business Park

Aerodrome Road

Gosport

Hampshire

PO13 0GW

United Kingdom

Data validation:

Nominet was able to match the registrant's name and address against a 3rd party data source on 21-Feb-2017

Registrar:

Easyspace Ltd [Tag = EASYSPACE]

URL: https://www.easyspace.com/domain-names/extensions/uk

Relevant dates:

Registered on: 11-Apr-2005

Expiry date: 11-Apr-2019

Last updated: 12-Apr-2017

Registration status:

Registered until expiry date.

Name servers:

ns1.redstation.com

ns2.redstation.com

Relationships

81.94.192.10	Connected_From	ddea408e178f0412ae78ff5d5adf2439251f68cad4fd853ee466a3c74649642d
--------------	----------------	--

Description

A high port to high port connection attempt is made to this IP address from 'Malware5.dll'. No domain is associated with the IP address.  
12480585e08855109c5972e85d99cda7701fe992bc1754f1a0736f1eebcb004d

Tags

droppertrojan

Details



Name	868036E102DF4CE414B0E6700825B319
Size	453791 bytes
Type	PE32+ executable (GUI) x86-64, for MS Windows
MD5	868036e102df4ce414b0e6700825b319
SHA1	7f1e68d78e455aa14de9020abd2293c3b8ec6cf8
SHA256	12480585e08855109c5972e85d99cda7701fe992bc1754f1a0736f1eebcb004d
SHA512	724d83493dbe86cfcee7f655272d2c733baa5470d7da986e956c789aa1b8f518ad94b575e655b4fe5f6f7d426b9aa7d8304fc879b8
ssdeep	12288:eb/3G8vg+Rg1cvAHtE0MLa07rt5POui6z:+/3G8vg+pvi9Sa07rt4ui6z
Entropy	7.713852

Antivirus

Ahnlab	Trojan/Win64.Hopligh
Antiy	Trojan/Generic.Generic
Avira	TR/Dropper.ezydy
Cyren	W64/Trojan.PLQG-3049
ESET	a variant of Win64/NukeSped.BV trojan
Ikarus	Trojan.Win64.Nukesped
K7	Riskware ( 0040eff71 )
McAfee	Generic Trojan.ix
Microsoft Security Essentials	Trojan:Win64/Hopligh
NANOAV	Trojan.Win64.Crypted.excqpl
NetGate	Trojan.Win32.Malware
Quick Heal	Trojan.Hopligh
Sophos	Troj/Hopligh-C

Symantec	Trojan.Gen.MBT
TrendMicro	Trojan.D58D9624
TrendMicro House Call	Trojan.D58D9624
VirusBlokAda	Trojan.Win64.Hopligh

Yara Rules

No matches found.

ssdeep Matches

90	890d3928be0f36b1f4dcfffb20ac3747a31451ce010caba768974bfccdc26e7c
----	--

PE Metadata

Compile Date	2017-06-06 10:54:03-04:00
Import Hash	947a389c3886c5fa7f3e972fd4d7740c

PE Sections

MD5	Name	Raw Size	Entropy
e772c7a04c7e3d53c58fdb8a88bb0c02	header	1024	2.486400
a6a2750e5b57470403299e0327553042	.text	34816	6.297430
cc5d69374e9b0266a4b1119e5274d392	.rdata	12288	4.715650
ac4ee21fcb2501656efc217d139ec804	.data	5120	1.876950
359af12d4a14ced423d39736dfec613a	.pdata	2560	3.878158
097e0e4be076b795a7316f1746bace8a	.rsrc	3072	5.514584
5849f380266933d6f3c5c4740334b041	.reloc	1024	2.517963

Packers/Compilers/Cryptors

Microsoft Visual C++ 8.0 (DLL)
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Relationships

12480585e0...	Related_To	70902623c9cd0cccc8513850072b70732d02c266c7b7e96d2d5b2ed4f5edc289
---------------	------------	--

12480585e0...

Dropped

49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359

Description

This artifact is a malicious x64 executable with similar characteristics of those described in 23E27E5482E3F55BF828DAB885569033 above.

In addition to the capabilities described above, this variant will hook the Windows Local Security Authority (lsass.exe). 'lsass.exe' will check the registry for the key SYSTEM\CurrentControlSet\Control\Lsa Name: Security Packages. If not found, this value is added by 'lsass.exe'.

Next, the malware will drop the embedded file, 'rdpproto.dll' into the %System32% directory.

The file, 'udbcgiut.dat' is then written to C:\Windows. Outbound connection attempts are made to the socket pairs found within this file as described above.

49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359

Tags

trojan

Details

Name	rdpproto.dll
Size	391680 bytes
Type	PE32+ executable (DLL) (console) x86-64, for MS Windows
MD5	dc268b166fe4c1d1c8595dccf857c476
SHA1	8264556c8a6e460760dc6bb72ecc6f0f966a16b8
SHA256	49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359
SHA512	b47c4caa0b5c17c982fcd040c7171d36ec962fe32e9b8bec567ee14b187507fe90e026aa05eec17d36c49a924eeaed55e66c95a111cf
ssdeep	6144:jfsTC8amAXJeZP6BPjIDeLkigDxcvAHjVXjhtBGshMLa1Mj7rtlkiP60dwtudlye:jvg+Rg1cvAHtE0MLa07rt5POui6
Entropy	7.893665

Antivirus

Ahnlab	Trojan/Win64.Hopligh
Antiy	Trojan/Win32.Casdet
Avira	TR/Crypt.XPACK.xuqld
BitDefender	Trojan.Generic.22790108

ESET	a variant of Win64/NukeSped.BV trojan
Emsisoft	Trojan.Generic.22790108 (B)
Ikarus	Trojan.SuspectCRC
K7	Trojan ( 0054bb211 )
McAfee	Hoplight-FDXG!DC268B166FE4
Microsoft Security Essentials	Trojan:Win64/Hoplight
NANOAV	Trojan.Win64.Crypted.excqpl
Quick Heal	Trojan.Agent
Sophos	Troj/Hoplight-C
Symantec	Trojan.Hoplight
VirusBlokAda	Trojan.Win64.Agent

Yara Rules

No matches found.

ssdeep Matches

99	890d3928be0f36b1f4dcfffb20ac3747a31451ce010caba768974bfccdc26e7c
----	--

PE Metadata

Compile Date	2017-06-06 11:34:06-04:00
Import Hash	360d26520c50825099ec61e97b01a43b

PE Sections

MD5	Name	Raw Size	Entropy
3bb2a7d6aab283c82ab853f536157ce2	header	1024	2.524087
b0bf8ec7b067fd3592c0053702e34504	.text	23552	6.180871
6cc98c5fef3ea1b782262e355b5c5862	.rdata	10752	4.635336
484d4698d46b3b5ad033c1a80ba83acf	.data	4096	2.145716

a07c8f17c18c6789a3e757aec183aea6	.pdata	2048	3.729952
fae0d0885944745d98849422bd799457	.rsrc	348672	7.997488
0c1c23e1fb129b1b1966f70fc75cf20e	.reloc	1536	1.737829

Relationships

49757cf856...	Dropped_By	12480585e08855109c5972e85d99cda7701fe992bc1754f1a0736f1eebcb004d
49757cf856...	Connected_To	21.252.107.198
49757cf856...	Connected_To	70.224.36.194
49757cf856...	Connected_To	113.114.117.122
49757cf856...	Connected_To	47.206.4.145
49757cf856...	Connected_To	84.49.242.125
49757cf856...	Connected_To	26.165.218.44
49757cf856...	Connected_To	137.139.135.151
49757cf856...	Connected_To	97.90.44.200
49757cf856...	Connected_To	128.200.115.228
49757cf856...	Connected_To	186.169.2.237

Description

"rdpproto.dll" is dropped into the %System32% directory by 868036E102DF4CE414B0E6700825B319. When the library is loaded,

"rdpproto.dll" will attempt to send SSL Client Hello packets to any of the following embedded IP addresses:

---Begin Embedded IP Addresses---

- 21.252.107.198
- 70.224.36.194
- 113.114.117.122

47.206.4.145

84.49.242.125

26.165.218.44

137.139.135.151

97.90.44.200

128.200.115.228

186.169.2.237

---End Embedded IP Addresses---

This artifact contains the following notable strings:

---Begin Notable Strings---

CompanyName

Adobe System Incorporated

FileDescription

MicrosoftWindows TransFilter/FilterType : 01 WindowsNT Service

FileVersion

6.1 Build 7601

InternalName

TCP/IP Packet Filter Service

LegalCopyright

Copyright 2015-Adobe System Incorporated

LegalTrademarks

OriginalFileName

TCP/IP-PacketFilter

---End Notable Strings---

21.252.107.198

Ports

- 23164 TCP

Whois

NetRange: 21.0.0.0-21.255.255.255

CIDR: 21.0.0.0/8

NetName: DNIC-SNET-021

NetHandle: NET-21-0-0-0-1

Parent: ()

NetType: Direct Allocation

OriginAS:

Organization: DoD Network Information Center (DNIC)

RegDate: 1991-06-30

Updated: 2009-06-19

Ref: https://whois.arin.net/rest/net/NET-21-0-0-0-1

OrgName: DoD Network Information Center

OrgId: DNIC

Address: 3990 E. Broad Street

City: Columbus

StateProv: OH

PostalCode: 43218

Country: US

RegDate:

Updated: 2011-08-17

Ref: https://whois.arin.net/rest/org/DNIC

Relationships

21.252.107.198	Connected_From	4a74a9fd40b63218f7504f806fce71dffe7c1b1d6ca4bbaadd720b6a89d47761
21.252.107.198	Connected_From	49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359

Description

A high port to high port connection attempt is made to this IP address from 'Malware2.dll'. No domain is associated with the IP address.  
70.224.36.194

Ports

- 59681 TCP

Whois

Domain Name: AMERITECH.NET

Registry Domain ID: 81816\_DOMAIN\_NET-VRSN

Registrar WHOIS Server: whois.corporatedomains.com

Registrar URL: http://www.cscglobal.com/global/web/csc/digital-brand-services.html

Updated Date: 2017-06-09T05:27:34Z

Creation Date: 1996-06-14T04:00:00Z

Registry Expiry Date: 2018-06-13T04:00:00Z

Registrar: CSC Corporate Domains, Inc.

Registrar IANA ID: 299

Registrar Abuse Contact Email: domainabuse@cscglobal.com

Registrar Abuse Contact Phone: 8887802723

Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited



Name Server: NS1.ATTDNS.COM

Name Server: NS2.ATTDNS.COM

Name Server: NS3.ATTDNS.COM

Name Server: NS4.ATTDNS.COM

DNSSEC: unsigned

Domain Name: ameritech.net

Registry Domain ID: 81816\_DOMAIN\_NET-VRSN

Registrar WHOIS Server: whois.corporatedomains.com

Registrar URL: www.cscprotectsbrands.com

Updated Date: 2017-06-09T05:27:34Z

Creation Date: 1996-06-14T04:00:00Z

Registrar Registration Expiration Date: 2018-06-13T04:00:00Z

Registrar: CSC CORPORATE DOMAINS, INC.

Registrar IANA ID: 299

Registrar Abuse Contact Email: domainabuse@cscglobal.com

Registrar Abuse Contact Phone: +1.8887802723

Domain Status: clientTransferProhibited <http://www.icann.org/epp#clientTransferProhibited>

Registry Registrant ID:

Registrant Name: Domain Administrator

Registrant Organization: AT&T SERVICES, INC.

Registrant Street: 801 Chestnut Street

Registrant City: Saint Louis

Registrant State/Province: MO

Registrant Postal Code: 63101

Registrant Country: US

Registrant Phone: +1.3142358168

Registrant Phone Ext:

Registrant Fax: +1.3142358168

Registrant Fax Ext:

Registrant Email: att-domains@att.com

Registry Admin ID:

Admin Name: Domain Administrator

Admin Organization: AT&T SERVICES, INC.

Admin Street: 801 Chestnut Street

Admin City: Saint Louis

Admin State/Province: MO

Admin Postal Code: 63101

Admin Country: US

Admin Phone: +1.3142358168

Admin Phone Ext:

Admin Fax: +1.3142358168

Admin Fax Ext:

Admin Email: att-domains@att.com

Registry Tech ID:

Tech Name: Domain Administrator

Tech Organization: AT&T SERVICES, INC.

Tech Street: 801 Chestnut Street

Tech City: Saint Louis

Tech State/Province: MO

Tech Postal Code: 63101

Tech Country: US

Tech Phone: +1.3142358168

Tech Phone Ext:

Tech Fax: +1.3142358168

Tech Fax Ext:

Tech Email: att-domains@att.com

Name Server: ns3.attdns.com

Name Server: ns1.attdns.com

Name Server: ns2.attdns.com

Name Server: ns4.attdns.com

DNSSEC: unsigned

Relationships

70.224.36.194	Connected_From	4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761
70.224.36.194	Connected_From	49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359

Description

A high port to high port connection attempt is made to this IP address from 'Malware2.dll'. No domain is associated with the IP address.  
113.114.117.122

Ports

- 23397 TCP

Whois

inetnum: 113.112.0.0 -113.119.255.255

netname: CHINANET-GD

descr: CHINANET Guangdong province network

descr: Data Communication Division

descr: China Telecom

country: CN

admin-c: CH93-AP

tech-c: IC83-AP

remarks: service provider

status: ALLOCATED PORTABLE

mnt-by: APNIC-HM

mnt-lower: MAINT-CHINANET-GD

mnt-routes: MAINT-CHINANET-GD

last-modified: 2016-05-04T00:15:17Z

source: APNIC

mnt-irt: IRT-CHINANET-CN

irt: IRT-CHINANET-CN

address: No.31 ,jingrong street,beijing

address: 100032

e-mail: anti-spam@ns.chinanet.cn.net

abuse-mailbox: anti-spam@ns.chinanet.cn.net

admin-c: CH93-AP

tech-c: CH93-AP

auth: # Filtered

mnt-by: MAINT-CHINANET

last-modified: 2010-11-15T00:31:55Z

source: APNIC

person: Chinanet Hostmaster

nic-hdl: CH93-AP

e-mail: anti-spam@ns.chinanet.cn.net

address: No.31 ,jingrong street,beijing

address: 100032

phone: +86-10-58501724

fax-no: +86-10-58501724

country: CN

mnt-by: MAINT-CHINANET

last-modified: 2014-02-27T03:37:38Z

source: APNIC

person: IPMASTER CHINANET-GD

nic-hdl: IC83-AP

e-mail: gdnoc\_HLWI@189.cn

address: NO.18,RO. ZHONGSHANER,YUEXIU DISTRIC,GUANGZHOU

phone: +86-20-87189274

fax-no: +86-20-87189274

country: CN

mnt-by: MAINT-CHINANET-GD

remarks: IPMASTER is not for spam complaint,please send spam complaint to abuse\_gdnoc@189.cn

abuse-mailbox: antispam\_gdnoc@189.cn

last-modified: 2014-09-22T04:41:26Z

source: APNIC

Relationships

113.114.117.122	Connected_From	4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761
113.114.117.122	Connected_From	49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359

Description

A high port to high port connection attempt is made to this IP address from 'Malware2.dll'. No domain is associated with the IP address.  
47.206.4.145

Ports

- 59067 TCP

Whois

Domain Name: FRONTIERNET.NET

Registry Domain ID: 4305589\_DOMAIN\_NET-VRSN

Registrar WHOIS Server: whois.register.com

Registrar URL: http://www.register.com

Updated Date: 2017-09-14T07:53:05Z

Creation Date: 1995-10-14T04:00:00Z

Registry Expiry Date: 2018-10-13T04:00:00Z

Registrar: Register.com, Inc.

Registrar IANA ID: 9

Registrar Abuse Contact Email: abuse@web.com

Registrar Abuse Contact Phone: +1.8003337680

Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited

Name Server: AUTH.DLLS.PA.FRONTIERNET.NET

Name Server: AUTH.FRONTIERNET.NET

Name Server: AUTH.LKVL.MN.FRONTIERNET.NET

Name Server: AUTH.ROCH.NY.FRONTIERNET.NET

DNSSEC: unsigned

Domain Name: FRONTIERNET.NET

Registry Domain ID: 4305589\_DOMAIN\_NET-VRSN

Registrar WHOIS Server: whois.register.com

Registrar URL: www.register.com

Updated Date: 2017-09-14T00:53:05.00Z

Creation Date: 1995-10-14T04:00:00.00Z

Registrar Registration Expiration Date: 2018-10-13T04:00:00.00Z

Registrar: REGISTER.COM, INC.

Registrar IANA ID: 9

Domain Status: clientTransferProhibited <https://www.icann.org/epp#clientTransferProhibited>

Registry Registrant ID:

Registrant Name: FRONTIERNET HOSTMASTER

Registrant Organization:

Registrant Street: 95 N. FITZHUGH ST.

Registrant City: ROCHESTER

Registrant State/Province: NY

Registrant Postal Code: 14614-1212

Registrant Country: US

Registrant Phone: +1.8664747662

Registrant Phone Ext:

Registrant Fax:

Registrant Fax Ext:

Registrant Email: HOSTMASTER@FRONTIERNET.NET

Registry Admin ID:

Admin Name: FRONTIERNET HOSTMASTER

Admin Organization:

Admin Street: 95 N. FITZHUGH ST.

Admin City: ROCHESTER

Admin State/Province: NY

Admin Postal Code: 14614-1212

Admin Country: US

Admin Phone: +1.8664747662

Admin Phone Ext:

Admin Fax:

Admin Fax Ext:

Admin Email: HOSTMASTER@FRONTIERNET.NET

Registry Tech ID:

Tech Name: FRONTIERNET HOSTMASTER

Tech Organization:

Tech Street: 95 N. FITZHUGH ST.

Tech City: ROCHESTER

Tech State/Province: NY

Tech Postal Code: 14614-1212

Tech Country: US

Tech Phone: +1.8664747662

Tech Phone Ext:

Tech Fax:

Tech Fax Ext:



Tech Email: HOSTMASTER@FRONTIERNET.NET

Name Server: AUTH.DLLS.PA.FRONTIERNET.NET

Name Server: AUTH.FRONTIERNET.NET

Name Server: AUTH.LKVL.MN.FRONTIERNET.NET

Name Server: AUTH.ROCH.NY.FRONTIERNET.NET

DNSSEC: unSigned

Relationships

47.206.4.145	Connected_From	4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761
47.206.4.145	Connected_From	49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359

Description

A high port to high port connection attempt is made to this IP address from 'Malware2.dll'. No domain is associated with the IP address.  
84.49.242.125

Ports

- 17770 TCP

Whois

Domain Name: NEXTGENTEL.COM

Registry Domain ID: 13395561\_DOMAIN\_COM-VRSN

Registrar WHOIS Server: whois.domaininfo.com

Registrar URL: http://www.ports.domains

Updated Date: 2017-11-10T23:44:50Z

Creation Date: 1999-11-17T15:47:51Z

Registry Expiry Date: 2018-11-17T15:47:51Z

Registrar: Ports Group AB

Registrar IANA ID: 73

Registrar Abuse Contact Email: abuse@portsgroup.se

Registrar Abuse Contact Phone: +46.707260017

Domain Status: clientTransferProhibited <https://icann.org/epp#clientTransferProhibited>

Name Server: ANYADNS1.NEXTGENTEL.NET

Name Server: ANYADNS2.NEXTGENTEL.NET

DNSSEC: unsigned

Domain Name: nextgentel.com

Registry Domain ID: 13395561\_DOMAIN\_COM-VRSN

Registrar WHOIS Server: whois.domaininfo.com

Registrar URL: ports.domains

Updated Date: 2017-11-10T23:44:50Z

Creation Date: 1999-11-17T15:47:51Z

Registrar Registration Expiration Date: 2018-11-17T15:47:51Z

Registrar: PortsGroup AB

Registrar IANA ID: 73

Registrar Abuse Contact Email: abuse@portsgroup.se

Registrar Abuse Contact Phone: +46.317202000

Domain Status: clientTransferProhibited <https://icann.org/epp#clientTransferProhibited>

Registry Registrant ID:

Registrant Name: Hostmaster

Registrant Organization: NextGenTel AS

Registrant Street: Sandslimarka 31

Registrant City: SANDSLI

Registrant State/Province:

Registrant Postal Code: 5254

Registrant Country: NO

Registrant Phone: +47.55527900

Registrant Fax: +47.55527910

Registrant Email: hostmaster@nextgentel.com

Registry Admin ID:

Admin Name: Hostmaster

Admin Organization: NextGenTel AS

Admin Street: Sandslimarka 31

Admin City: Sandsli

Admin State/Province:

Admin Postal Code: 5254

Admin Country: NO

Admin Phone: +47.55527900

Admin Fax: +47.55527910

Admin Email: hostmaster@nextgentel.com

Registry Tech ID:

Tech Name: Hostmaster v/ Eivind Olsen

Tech Organization: NextGenTel AS

Tech Street: Postboks 3 Sandsli

Tech City: Bergen

Tech State/Province:

Tech Postal Code: 5861

Tech Country: NO

Tech Phone: +47.41649322

Tech Fax: +47.55527910

Tech Email: hostmaster@nextgentel.com

Name Server: ANYADNS1.NEXTGENTEL.NET

Name Server: ANYADNS2.NEXTGENTEL.NET

DNSSEC: unsigned

Relationships

84.49.242.125	Connected_From	4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761
84.49.242.125	Connected_From	49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359

Description

A high port to high port connection attempt is made to this IP address from 'Malware2.dll'. No domain is associated with the IP address.  
26.165.218.44

Ports

- 2248 TCP

Whois

NetRange: 26.0.0.0 -26.255.255.255

CIDR: 26.0.0.0/8

NetName: DISANET26

NetHandle: NET-26-0-0-0-1

Parent: ()

NetType: Direct Allocation

OriginAS:

Organization: DoD Network Information Center (DNIC)

RegDate: 1995-04-30

Updated: 2009-06-19

Ref: https://whois.arin.net/rest/net/NET-26-0-0-0-1

OrgName: DoD Network Information Center

OrgId: DNIC

Address: 3990 E. Broad Street

City: Columbus

StateProv: OH

PostalCode: 43218

Country: US

RegDate:

Updated: 2011-08-17

Ref: https://whois.arin.net/rest/org/DNIC

OrgTechHandle: MIL-HSTMST-ARIN

OrgTechName: Network DoD

OrgTechPhone: +1-844-347-2457

OrgTechEmail: disa.columbus.ns.mbx.hostmaster-dod-nic@mail.mil

OrgTechRef: https://whois.arin.net/rest/poc/MIL-HSTMST-ARIN

OrgAbuseHandle: REGIS10-ARIN

OrgAbuseName: Registration

OrgAbusePhone: +1-844-347-2457

OrgAbuseEmail: disa.columbus.ns.mbx.arin-registrations@mail.mil

OrgAbuseRef: https://whois.arin.net/rest/poc/REGIS10-ARIN

OrgTechHandle: REGIS10-ARIN

OrgTechName: Registration

OrgTechPhone: +1-844-347-2457

OrgTechEmail: disa.columbus.ns.mbx.arin-registrations@mail.mil

OrgTechRef: https://whois.arin.net/rest/poc/REGIS10-ARIN

Relationships

26.165.218.44	Connected_From	4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761
26.165.218.44	Connected_From	49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359

Description

A high port to high port connection attempt is made to this IP address from 'Malware2.dll'. No domain is associated with the IP address.  
137.139.135.151

Ports

- 64694 TCP

Whois

NetRange: 137.139.0.0 -137.139.255.255

CIDR: 137.139.0.0/16

NetName: SUC-OLDWEST

NetHandle: NET-137-139-0-0-1

Parent: NET137 (NET-137-0-0-0-0)

NetType: Direct Assignment

OriginAS:

Organization: SUNY College at Old Westbury (SCAOW)

RegDate: 1989-11-29

Updated: 2014-02-18

Ref: https://whois.arin.net/rest/net/NET-137-139-0-0-1

OrgName: SUNY College at Old Westbury

OrgId: SCAOW

Address: 223 Store Hill Road

City: Old Westbury

StateProv: NY

PostalCode: 11568

Country: US

RegDate: 1989-11-29

Updated: 2011-09-24

Ref: https://whois.arin.net/rest/org/SCAOW

OrgTechHandle: SUNYO-ARIN

OrgTechName: SUNYOWNOC

OrgTechPhone: +1-516-876-3379

OrgTechEmail: sunyownoc@oldwestbury.edu

OrgTechRef: https://whois.arin.net/rest/poc/SUNYO-ARIN

OrgAbuseHandle: SUNYO-ARIN

OrgAbuseName: SUNYOWNOC

OrgAbusePhone: +1-516-876-3379

OrgAbuseEmail: sunyownoc@oldwestbury.edu

OrgAbuseRef: https://whois.arin.net/rest/poc/SUNYO-ARIN

RAbuseHandle: SUNYO-ARIN

RAbuseName: SUNYOWNOC

RAbusePhone: +1-516-876-3379

RAbuseEmail: sunyownoc@oldwestbury.edu

RAbuseRef: <https://whois.arin.net/rest/poc/SUNYO-ARIN>

RTechHandle: SUNYO-ARIN

RTechName: SUNYOWNOC

RTechPhone: +1-516-876-3379

RTechEmail: sunyownoc@oldwestbury.edu

RTechRef: <https://whois.arin.net/rest/poc/SUNYO-ARIN>

RNOCHandle: SUNYO-ARIN

RNOCName: SUNYOWNOC

RNOCPHONE: +1-516-876-3379

RNOCEmail: sunyownoc@oldwestbury.edu

RNOCRef: <https://whois.arin.net/rest/poc/SUNYO-ARIN>

Relationships

137.139.135.151	Connected_From	4a74a9fd40b63218f7504f806fce71dffe7c1b1d6ca4bbaadd720b6a89d47761
137.139.135.151	Connected_From	49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359

Description

A high port to high port connection attempt is made to this IP address from 'Malware2.dll'. No domain is associated with the IP address.  
97.90.44.200

Ports

- 37120 TCP

Whois



Domain Name: CHARTER.COM

Registry Domain ID: 340223\_DOMAIN\_COM-VRSN

Registrar WHOIS Server: whois.markmonitor.com

Registrar URL: http://www.markmonitor.com

Updated Date: 2017-07-03T04:22:18Z

Creation Date: 1994-07-30T04:00:00Z

Registry Expiry Date: 2019-07-29T04:00:00Z

Registrar: MarkMonitor Inc.

Registrar IANA ID: 292

Registrar Abuse Contact Email: abusecomplaints@markmonitor.com

Registrar Abuse Contact Phone: +1.2083895740

Domain Status: clientDeleteProhibited <https://icann.org/epp#clientDeleteProhibited>

Domain Status: clientTransferProhibited <https://icann.org/epp#clientTransferProhibited>

Domain Status: clientUpdateProhibited <https://icann.org/epp#clientUpdateProhibited>

Name Server: NS1.CHARTER.COM

Name Server: NS2.CHARTER.COM

Name Server: NS3.CHARTER.COM

Name Server: NS4.CHARTER.COM

DNSSEC: unsigned

Domain Name: charter.com

Registry Domain ID: 340223\_DOMAIN\_COM-VRSN

Registrar WHOIS Server: whois.markmonitor.com

Registrar URL: http://www.markmonitor.com

Updated Date: 2017-12-18T04:00:14-0800

Creation Date: 1994-07-29T21:00:00-0700

Registrar Registration Expiration Date: 2019-07-28T21:00:00-0700

Registrar: MarkMonitor, Inc.

Registrar IANA ID: 292

Registrar Abuse Contact Email: abusecomplaints@markmonitor.com

Registrar Abuse Contact Phone: +1.2083895740

Domain Status: clientUpdateProhibited (<https://www.icann.org/epp#clientUpdateProhibited>)

Domain Status: clientTransferProhibited (<https://www.icann.org/epp#clientTransferProhibited>)

Domain Status: clientDeleteProhibited (<https://www.icann.org/epp#clientDeleteProhibited>)

Registry Registrant ID:

Registrant Name: Domain Admin

Registrant Organization: Charter Communications Operating, LLC

Registrant Street: 12405 Powerscourt Drive,

Registrant City: Saint Louis

Registrant State/Province: MO

Registrant Postal Code: 63131

Registrant Country: US

Registrant Phone: +1.3149650555

Registrant Phone Ext:

Registrant Fax: +1.9064010617

Registrant Fax Ext:

Registrant Email: hostmaster@charter.com

Registry Admin ID:

Admin Name: Domain Admin

Admin Organization: Charter Communications Operating, LLC

Admin Street: 12405 Powerscourt Drive,

Admin City: Saint Louis

Admin State/Province: MO

Admin Postal Code: 63131

Admin Country: US

Admin Phone: +1.3149650555

Admin Phone Ext:

Admin Fax: +1.9064010617

Admin Fax Ext:

Admin Email: [hostmaster@charter.com](mailto:hostmaster@charter.com)

Registry Tech ID:

Tech Name: Charter Communications Internet Security and Abuse

Tech Organization: Charter Communications Operating, LLC

Tech Street: 12405 Powerscourt Drive,

Tech City: Saint Louis

Tech State/Province: MO

Tech Postal Code: 63131

Tech Country: US

Tech Phone: +1.3142883111

Tech Phone Ext:

Tech Fax: +1.3149090609

Tech Fax Ext:

Tech Email: [abuse@charter.net](mailto:abuse@charter.net)

Name Server: [ns4.charter.com](https://ns4.charter.com)

Name Server: ns3.charter.com

Name Server: ns1.charter.com

Name Server: ns2.charter.com

DNSSEC: unsigned

Relationships

97.90.44.200	Connected_From	4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761
97.90.44.200	Connected_From	49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359

Description

A high port to high port connection attempt is made to this IP address from 'Malware2.dll'. No domain is associated with the IP address.  
128.200.115.228

Ports

- 52884 TCP

Whois

Domain Name: UCI.EDU

Registrant:

University of California, Irvine

6366 Ayala Science Library

Irvine, CA 92697-1175

UNITED STATES

Administrative Contact:

Con Wieland

University of California, Irvine

Office of Information Technology

6366 Ayala Science Library

Irvine, CA 92697-1175

UNITED STATES

(949) 824-2222

oit-nsp@uci.edu

Technical Contact:

Con Wieland

University of California, Irvine

Office of Information Technology

6366 Ayala Science Library

Irvine, CA 92697-1175

UNITED STATES

(949) 824-2222

oit-nsp@uci.edu

Name Servers:

NS4.SERVICE.UCI.EDU 128.200.59.190

NS5.SERVICE.UCI.EDU 52.26.131.47

Domain record activated: 30-Sep-1985

Domain record last updated: 07-Jul-2016

Domain expires: 31-Jul-2018

Relationships

128.200.115.228	Connected_From	4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761
-----------------	----------------	--

128.200.115.228      Connected\_From      49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359

**Description**

A high port to high port connection attempt is made to this IP address from 'Malware2.dll'. No domain is associated with the IP address.  
186.169.2.237

**Ports**

- 65292 TCP

**Whois**

inetnum: 186.168/15

status: allocated

aut-num: N/A

owner: COLOMBIA TELECOMUNICACIONES S.A. ESP

ownerid: CO-CTSE-LACNIC

responsible: Administradores Internet

address: Transversal 60, 114, A 55

address: N-BOGOTA-Cu

country: CO

phone: +57 1 5339833 []

owner-c: CTE7

tech-c: CTE7

abuse-c: CTE7

inetrev: 186.169/16

nserver: DNS5.TELECOM.COM.CO

nsstat: 20171220 AA

nslastaa: 20171220

nserver: DNS.TELECOM.COM.CO

nsstat: 20171220 AA

nslastaa: 20171220

created: 20110404

changed: 20141111

nic-hdl: CTE7

person: Grupo de Administradores Internet

e-mail: admin.internet@TELECOM.COM.CO

address: Transversal, 60, 114 A, 55

address: 571111 -BOGOTA DC -CU

country: CO

phone: +57 1 7050000 [71360]

created: 20140220

changed: 20140220

Relationships

186.169.2.237	Connected_From	4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761
186.169.2.237	Connected_From	49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359

Description

A high port to high port connection attempt is made to this IP address from 'Malware2.dll'. No domain is associated with the IP address.  
4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761

Tags

trojan

Details

Name	42682D4A78FE5C2EDA988185A344637D
Name	4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761
Size	346624 bytes

Type	PE32+ executable (DLL) (console) x86-64, for MS Windows
MD5	42682d4a78fe5c2eda988185a344637d
SHA1	4975de2be0a1f7202037f5a504d738fe512191b7
SHA256	4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761
SHA512	213e4a0afbfbac0bd884ab262ac87aee7d9a175cff56ba11aa4c75a4feb6a96c5e4e2c26adbe765f637c783df7552a56e4781a3b17be5
ssdeep	6144:nCgsFAkxS1rrtZQXTip12P04nTnvze6lxjWV346vze6lpjWV34Evze6lSjWV34a7:nCgsukxS1vtZ+5nvze6lxjWV346vze6N
Entropy	6.102810

Antivirus

Ahnlab
Antiy
Avira
BitDefender
Cyren
ESET
Emsisoft
Ikarus
K7
McAfee
Microsoft Security Essentials
Quick Heal
Sophos
Symantec
TrendMicro
TrendMicro House Call

Trojan/Win32.Generic

Trojan/Win64.NukeSped

TR/NukeSped.tbxxd

Trojan.GenericKD.41198710

W64/Trojan.NKDY-0871

a variant of Win64/NukeSped.T trojan

Trojan.GenericKD.41198710 (B)

Trojan.Win64.Nukesped

Trojan ( 0054bc321 )

Generic Trojan.ix

Trojan:Win64/Hoplight

Trojan.Hoplight.S5795935

Troj/Hoplight-C

Trojan.Hoplight

Trojan.A7CCF529

Trojan.A7CCF529



VirusBlokAda

Trojan.Win64.Hopligh

Yara Rules

hidden\_cobra\_consolidated.yara

rule hoplight { meta: Author = "CISA trusted 3rd party" Incident = "10135536" Date = "2019-08-14" Category = "HOPLIGHT" Description = "Detects polarSSL certificates" strings: \$polarSSL = "fjiejffndxklfsdkfjsaadiepwn" : 56 b4 c2 } \$p3 = { 55 84 26 fe } condition: (uint16(0) == 0x5A4D and uint16(uint32(0x3c)) == 0x4550) and (\$polarSSL == \$p3)

ssdeep Matches

No matches found.

PE Metadata

Compile Date	2017-06-06 11:24:44-04:00
Import Hash	e395fbfa0104d0173b3c4fdd3debdceb
Company Name	Kamsky Co,.Ltd
File Description	Vote_Controller
Internal Name	MDL_170329_x86_V06Lv3
Legal Copyright	Copyright \u24d2 2017
Original Filename	Vote_Controller
Product Name	Kamsky ColdFear
Product Version	17, 0, 0, 0

PE Sections

MD5	Name	Raw Size	Entropy
40d66d1a2f846d7c3bf291c604c9fca3	header	1024	2.628651
d061ffec6721133c433386c96520bc55	.text	284160	5.999734
cbbc6550dcbdcacf012bdbf758a377779	.rdata	38912	5.789426
c83bcaab05056d5b84fc609f41eed210	.data	7680	3.105496
b9fc36206883aa1902566b5d01c27473	.pdata	8704	5.319307
1c1d46056b4cb4627a5f92112b7e09f7	.rsrc	4096	5.608168

3baedaa3d6b6d6dc9fb0ec4f5c3b007c	.reloc	2048	2.331154
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Relationships

4a74a9fd40...	Connected_To	21.252.107.198
4a74a9fd40...	Connected_To	70.224.36.194
4a74a9fd40...	Connected_To	113.114.117.122
4a74a9fd40...	Connected_To	47.206.4.145
4a74a9fd40...	Connected_To	84.49.242.125
4a74a9fd40...	Connected_To	26.165.218.44
4a74a9fd40...	Connected_To	137.139.135.151
4a74a9fd40...	Connected_To	97.90.44.200
4a74a9fd40...	Connected_To	128.200.115.228
4a74a9fd40...	Connected_To	186.169.2.237

Description

This artifact is a malicious 64bit Windows dynamic library called 'Vote\_Controller.dll'. The file shares similar functionality with 'rdpproto.dll' above, and attempts to connect to various IP addresses.

42682D4A78FE5C2EDA988185A344637D also contains the same public SSL certificate as many of the artifacts above.

The file contains the following notable strings:

---Begin Notable Strings---

CompanyName

Kamsky Co, .Ltd

FileDescription

Vote\_Controller

FileVersion

49, 0, 0, 0

InternalName

MDL\_170329\_x86\_V06Lv3

LegalCopyright

Copyright

2017

LegalTrademarks

OriginalFileName

Vote\_Controller

PrivateBuild

ProductName

Kamsky ColdFear

ProductVersion

17, 0, 0, 0

---End Notable Strings---

83228075a604e955d59edc760e4c4ed16eedabfc8f6ac291cf21b4fcbcd1f70a

Tags

trojan

Details

Name	3021B9EF74c&BDDF59656A035F94FD08
Name	83228075a604e955d59edc760e4c4ed16eedabfc8f6ac291cf21b4fcbcd1f70a
Size	245760 bytes

Type	PE32+ executable (DLL) (console) x86-64, for MS Windows
MD5	3021b9ef74c7bddf59656a035f94fd08
SHA1	05ad5f346d0282e43360965373eb2a8d39735137
SHA256	83228075a604e955d59edc760e4c4ed16eedabfc8f6ac291cf21b4fcbcd1f70a
SHA512	f8fcc5ed34b7bf144fc708d01d9685f0cb2e678c173d014987d6ecbf4a7c3ed539452819237173a2ab14609a913cf46c3bd618cffe7b5
ssdeep	6144:4+ZmN/ix9bd+Rvze6lxjWV346vze6lpjWV34Evze6lSjWV34avze6lkjWV34z5FT:4+ZmN/ix9b8Rvze6lxjWV346vze6lpjn
Entropy	5.933390

Antivirus

Ahnlab	Trojan/Win64.Hopligh
Antiy	Trojan/Win32.Hopligh
Avira	TR/AD.APTLazerus.ltfzr
BitDefender	Trojan.Agent.DVDE
Cyren	W64/Trojan.KDWH-2913
ESET	a variant of Win64/NukeSped.BW trojan
Emsisoft	Trojan.Agent.DVDE (B)
Ikarus	Trojan.Agent
K7	Riskware ( 0040eff71 )
McAfee	Generic Trojan.jp
Microsoft Security Essentials	Trojan:Win64/Hopligh
Quick Heal	Trojan.Generic
Sophos	Troj/Hopligh-C
Symantec	Trojan.Hopligh
TrendMicro	Trojan.A7CCF529
TrendMicro House Call	Trojan.A7CCF529

VirusBlokAda

Trojan.Win64.Hopligh

Yara Rules

hidden\_cobra\_consolidated.yara

rule hoplight { meta: Author = "CISA trusted 3rd party" Incident = "10135536" Date = "2019-08-14" Category = "HOPLIGHT" Description = "Detects polarSSL certificates" strings: \$polarSSL = "fjiejffndxklfsdkfjsaadiepwn" : 56 b4 c2 } \$p3 = { 55 84 26 fe } condition: (uint16(0) == 0x5A4D and uint16(uint32(0x3c)) == 0x4550) and (\$polarSSL == \$p3)

ssdeep Matches

No matches found.

PE Metadata

Compile Date	2017-05-16 02:44:21-04:00
Import Hash	ca767ccbffbed559cbe77c923e3af1f8
Company Name	Kamsky Co,.Ltd
File Description	Vote_Controller
Internal Name	MDL_170329_x86_V06Lv3
Legal Copyright	Copyright \u24d2 2017
Original Filename	Vote_Controller
Product Name	Kamsky ColdFear
Product Version	17, 0, 0, 0

PE Sections

MD5	Name	Raw Size	Entropy
83ec15e3cf335f784144db4208b328c9	header	1024	2.790421
036c57e89ea3a6afa819c242c5816b70	.text	206848	5.688491
4812d2f39e9a8ae569370d423ba31344	.rdata	26112	6.000116
cb41e8f63b7c22c401a0634cb4fe1909	.data	2048	4.748331
3cc7651747904bfe94ed18f44354a706	.pdata	5120	4.962073
9e92c54604ea67e76210c3c914e9608c	.rsrc	4096	5.606351

71dcfb1ec7257ee58dcc20cafb0be691 .reloc 512 0.673424

Relationships

83228075a6... Connected\_To 112.175.92.57

Description

This artifact is 64bit Windows dynamic library file which shares many of the same characteristics and name (Vote\_Controller.dll) as 42682D4A78FE5C2EDA9

When this library is loaded it will look for the file 'udbcgiut.dat' in C:\WINDOWS. If 'udbcgiut.dat' is not found, the file will attempt connections to the same ter 'rdpproto.dll' above.

One notable difference with this variant is that it uses the Windows Management Instrumentation (WMI) process to recompile the Managed Object Format (MO runtime, the malware will enumerate the drivers located in the registry at HKLM\Software\WBEM\WDM.

These files are then recompiled by invoking wmiprvse.exe through svchost.exe: "C:\Windows\system32\wbem\wmiprvse.exe-Embedding".

MOF files are written in a SQL-like language and are run (compiled) by the operating system when a predetermined event takes place. Recent malware variant the MOF files within the system registry to run specific commands and create persistency on the system.

Of note, the paravirtual SCSI driver for VMWare Tools is also located in HKLM\Software\WBEM\WDM within a virtual image. When this driver is recompiled by longer works. It cannot be determined if this is an intentional characteristic of the malware to hinder analysis, or simply a symptom of the method used to esta 70034b33f59c6698403293cdc28676c7daa8c49031089efa6eefce41e22dccb3

Tags

trojan

Details

Name	61E3571B8D9B2E9CCFADC3DDE10FB6E1
Size	258052 bytes
Type	PE32 executable (GUI) Intel 80386, for MS Windows
MD5	61e3571b8d9b2e9ccfad3dde10fb6e1
SHA1	55daa1fca210ebf66b1a1d2db1aa3373b06da680
SHA256	70034b33f59c6698403293cdc28676c7daa8c49031089efa6eefce41e22dccb3

SHA512	235f7b920f54c4d316386cbf6cc14db1929029e8053270e730be15acc8e9f333231d2d984681bea26013a1d1cf4670528ba0989337b
ssdeep	6144:d71TKN7LBHvS+bujAfrsxxwm1Ka5l7gTtJUGx:dxKHPuj8WR0K6VgTtZx
Entropy	7.829590

Antivirus

Ahnlab	Trojan/Win32.Hopligh
Antiy	Trojan/Win32.NukeSped
Avira	TR/NukeSped.oppme
BitDefender	Dropped:Trojan.Generic.22954895
Emsisoft	Dropped:Trojan.Generic.22954895 (B)
Ikarus	Trojan.Win32.NukeSped
K7	Trojan ( 005329311 )
McAfee	Trojan-Hopligh
Microsoft Security Essentials	Trojan:Win32/Nukesped.PAIMTB
NANOAV	Trojan.Win32.NukeSped.fpblwf
NetGate	Trojan.Win32.Malware
Quick Heal	Trojan.Generic
Sophos	Troj/Hopligh-C
Symantec	Trojan.Gen.MBT
TrendMicro	Trojan.55DEE3DA
TrendMicro House Call	Trojan.55DEE3DA

Yara Rules

hidden_cobra_consolidated.yara	rule crypt_constants_2 { meta: Author = "CISA trusted 3rd party" Incident = "10135536" Date = "2018-04-19" Ca Family = "n/a" Description = "n/a" strings: \$ = {efcdab90} \$ = {558426fe} \$ = {7856b4c2} condition: (uint16(0) == uint16(uint32(0x3c)) == 0x4550) and all of them }
--------------------------------	--

ssdeep Matches

No matches found.

PE Metadata

Compile Date	2016-08-23 00:19:59-04:00
Import Hash	8e253f83371d82907ff72f57257e3810

PE Sections

MD5	Name	Raw Size	Entropy
84f39a6860555231d60a55c72d07bc5e	header	4096	0.586304
649c24790b60bda1cf2a85516bfc7fa0	.text	24576	5.983290
fbd6ca444ef8c0667aed75820cc99dce	.rdata	4096	3.520964
0ecb4bcb0a1ef1bf8ea4157fabdd7357	.data	4096	3.988157

Packers/Compilers/Cryptors

Installer VISE Custom
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Relationships

70034b33f5...	Dropped	cd5ff67ff773cc60c98c35f9e9d514b597cbd148789547ba152ba67bfc0fec8f
70034b33f5...	Dropped	70902623c9cd0cccc8513850072b70732d02c266c7b7e96d2d5b2ed4f5edc289
70034b33f5...	Dropped	96a296d224f285c67bee93c30f8a309157f0daa35dc5b87e410b78630a09cfc7
70034b33f5...	Connected_To	81.94.192.147
70034b33f5...	Connected_To	112.175.92.57
70034b33f5...	Connected_To	181.39.135.126
70034b33f5...	Connected_To	197.211.212.59
70034b33f5...	Related_To	70902623c9cd0cccc8513850072b70732d02c266c7b7e96d2d5b2ed4f5edc289

Description

This artifact is a malicious PE32 executable. When executed, the artifact sets up the service, 'Network UDP Trace Management Service'.

To set up the service, the program drops a dynamic library, 'UDPTrcSvc.dll' into the %System32% directory.

Next, the following registry keys are added:



---Begin Registry Keys---

HKLM\SYSTEM\CurrentControlSet\services\UDPTrcSvc Name: Type Value: 20

HKLM\SYSTEM\CurrentControlSet\services\UDPTrcSvc Name: Start Value: 02

HKLM\SYSTEM\CurrentControlSet\services\UDPTrcSvc Name: ImagePath Value: "%SystemRoot%\System32\svchost.exe -k mdnetuse"

HKLM\SYSTEM\CurrentControlSet\services\UDPTrcSvc Name: DisplayName Value: "Network UDP Trace Management Service"

HKLM\SYSTEM\CurrentControlSet\services\UDPTrcSvc Name: ObjectName Value: "LocalSystem"

HKLM\SYSTEM\CurrentControlSet\services\UDPTrcSvc\Parameters Name: ServiceDll Value: "%SystemRoot%\System32\svchost.exe -k mdnetuse"

HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Svchost\mdnetuse

---End Registry Keys---

The service is started by invoking svchost.exe.

After writing 'UDPTrcSvd.dll' to disk, the program drops two additional files. Similar to 5C3898AC7670DA30CF0B22075F3E8ED6 above, the program writes victim's profile at %AppData/Local/Temp%. A second file is written to the victim's profile in the %AppData/Local/VirtualStore/Windows% directory and identified as 'MSDFMAPI.INI' is also written to C:\WINDOWS. More information on the content of these files is below.

61E3571B8D9B2E9CCFADC3DDE10FB6E1 attempts the same outbound connections as 5C3898AC7670DA30CF0B22075F3E8ED6, however the file does not contain any certificates referenced above.

cd5ff67ff773cc60c98c35f9e9d514b597cbd148789547ba152ba67bfc0fec8f

Tags

backdoortrojan

Details

Name	UDPTrcSvc.dll
------	---------------

Size	221184 bytes
Type	PE32 executable (DLL) (GUI) Intel 80386, for MS Windows
MD5	0893e206274cb98189d51a284c2a8c83
SHA1	d1f4cf4250e7ba186c1d0c6d8876f5a644f457a4
SHA256	cd5ff67ff773cc60c98c35f9e9d514b597cbd148789547ba152ba67bfc0fec8f
SHA512	8042356ff8dc69fa84f2de10a4c34685c3ffa798d5520382d4fbcdcb43ae17e403a208be9891cca6cf2bc297f767229a57f746ca834
ssdeep	3072:WsyjTzEvLFOL8AqCiueLt1VFu9+zcSywy0mcj90nSJ5NatCmtWwNQLK:W/zEvLFOLdq9uebdSwHN9n5wtkwNwK
Entropy	6.359677

Antivirus

Ahnlab	Backdoor/Win32.Akdoor
Antiy	Trojan/Win32.AGeneric
Avira	TR/NukeSped.davct
BitDefender	Trojan.Generic.22954895
ESET	Win32/NukeSped.AI trojan
Emsisoft	Trojan.Generic.22954895 (B)
Ikarus	Trojan.Win32.NukeSped
K7	Trojan ( 005329311 )
McAfee	Trojan-Hopligh
Microsoft Security Essentials	Trojan:Win32/Hopligh
NANOAV	Trojan.Win32.NukeSped.fcodob
Quick Heal	Trojan.Hopligh
Sophos	Troj/Hopligh-C
Symantec	Trojan.Gen.MBT
Systweak	malware.gen-ra

TrendMicro	Trojan.CCD7B260
TrendMicro House Call	Trojan.CCD7B260
VirusBlokAda	Trojan.Tiggre
Zillya!	Trojan.NukeSped.Win32.73

Yara Rules

hidden_cobra_consolidated.yara	rule hoplight { meta: Author = "CISA trusted 3rd party" Incident = "10135536" Date = "2019-08-14" Category = "HOPLIGHT" Description = "Detects polarSSL certificates" strings: \$polarSSL = "fjiejffndxklfsdkfjsaadiepwn" : 56 b4 c2 } \$p3 = { 55 84 26 fe } condition: (uint16(0) == 0x5A4D and uint16(uint32(0x3c)) == 0x4550) and (\$pol
--------------------------------	--

ssdeep Matches

No matches found.

PE Metadata

Compile Date	2016-08-23 00:23:04-04:00
Import Hash	30d3466536de2b423897a3c8992ef999

PE Sections

MD5	Name	Raw Size	Entropy
d37b95aa17fa132415b37ec777f439ff	header	4096	0.709908
badbc93c35554aec904ab0c34f05fbe0	.text	180224	6.295472
64f7a9cafdad34003aba4547bba0e25b	.rdata	16384	6.372911
c792eb0c57577f4f3649775cbf32b253	.data	12288	3.996008
8791f715ae89ffe2c7d832c1be821edc	.reloc	8192	5.154376

Relationships

cd5ff67ff7...	Dropped_By	70034b33f59c6698403293cdc28676c7daa8c49031089efa6eefce41e22dccb3
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Description

This artifact is a malicious 32bit Windows dynamic library. 'UDPTrcSvc.dll' is identified as the 'Network UDP Trace Management Service'. The following descri

---Begin Service Description---

Network UDP Trace Management Service Hosts TourSvc Tracing. If this service is stopped, notifications of network trace will no longer function and there mig functions. If this service is disabled, notifications of and monitoring to network state will no longer function.

---End Service Description---

The service is invoked with the command, 'C:\Windows\System32\svchost.exe -k mdnetuse'.

When the service is run a modification to the system firewall is attempted, 'cmd.exe /c netsh firewall add portopening TCP 0 "adp"'.

Unlike many of the files listed above that use a public certificate from naver.com, 'UDPTrcSvc.dll' uses a public SSL certificate from google.com. 96a296d224f285c67bee93c30f8a309157f0daa35dc5b87e410b78630a09cfc7

Tags

trojan

Details

Name	MSDFMAPI.INI
Size	2 bytes
Type	data
MD5	c4103f122d27677c9db144cae1394a66
SHA1	1489f923c4dca729178b3e3233458550d8dddf29
SHA256	96a296d224f285c67bee93c30f8a309157f0daa35dc5b87e410b78630a09cfc7
SHA512	5ea71dc6d0b4f57bf39aadd07c208c35f06cd2bac5fde210397f70de11d439c62ec1cdf3183758865fd387fcea0bada2f6c37a4a1785
ssdeep	3::
Entropy	0.000000

Antivirus

NetGate	Trojan.Win32.Malware
---------	----------------------

Yara Rules

No matches found.

ssdeep Matches

100	028f5531e8593ce6faf30dd5c5131abf1400fc4deb4d322f3f39578f14348be1
100	132fde08d7f788dece120e98bf6c794bafb655959764798ead053b872d097638
100	200608c94d52d33ff86b8f4db28451752eeae7c70062488f380f112e11b4350a
100	2d07a41ae992770085117e9815300bfd0730745883e60b24aad5e69dfc087ae
100	3d1066ae1cd00d635b2131664a7d0d5483554901ed6aae9d627b697ecb02718e
100	5309e677c79cffae49a65728c61b436d3cdc2a2bab4c81bf0038415f74a56880
100	c35020473aed1b4642cd726cad727b63fff2824ad68cedd7ffb73c7cbd890479

Relationships

96a296d224...	Dropped_By	70034b33f59c6698403293cdc28676c7daa8c49031089efa6eefce41e22dccb3
96a296d224...	Dropped_By	2151c1977b4555a1761c12f151969f8e853e26c396fa1a7b74ccbaf3a48f4525

Description

'MSDFMAPI.INI' is written to C:\WINDOWS and to %UserProfile\AppData\Local\VirtualStore\Windows%. During analysis, two NULL characters were written to %UserProfile\AppData\Local\VirtualStore\Windows%. The file has not been determined.

d77fdabe17cdba62a8e728cbe6c740e2c2e541072501f77988674e07a05dfb39

Tags

trojan

Details

Name	F8D26F2B8DD2AC4889597E1F2FD1F248
Name	d77fdabe17cdba62a8e728cbe6c740e2c2e541072501f77988674e07a05dfb39
Size	456241 bytes
Type	data
MD5	f8d26f2b8dd2ac4889597e1f2fd1f248
SHA1	dd132f76a4aff9862923d6a10e54dca26f26b1b4

SHA256	d77fdabe17cdba62a8e728cbe6c740e2c2e541072501f77988674e07a05dfb39
SHA512	34f8d10ebcab6f10c5140e94cf858761e9fa2e075db971b8e49c7334e1d55237f844ed6cf8ce735e984203f58d6b5032813b55e29a5
ssdeep	12288:MG31DF/ubokxmgF8JsVusikiWxdj3tlQLYe:NII0UV0ou1kiWvm4Ye
Entropy	7.999350

Antivirus

Ahnlab	BinImage/Agent
Antiy	Trojan/Win32.Casdet
Avira	TR/Agent.anrq
BitDefender	Trojan.Agent.DVDS
Cyren	Trojan.GTWY-8
Emsisoft	Trojan.Agent.DVDS (B)
Ikarus	Trojan.Agent
McAfee	Trojan-Hopligh <b>t</b> .b

Yara Rules

No matches found.

ssdeep Matches

No matches found.

Description

This artifact contains a similar public SSL certificate from naver.com, similar to many of the files above. The payload of the file appears to be encoded with a provided with the file's submission.

b9a26a569257fbe02c10d3735587f10ee58e4281dba43474dbdef4ace8ea7101

Tags

trojan

Details

Name	2A791769AA73AC757F210F8546125B57
Size	110592 bytes
Type	PE32 executable (GUI) Intel 80386, for MS Windows

MD5	2a791769aa73ac757f210f8546125b57
SHA1	269f1cc44f6b323118612bde998d17e5bfbf555e
SHA256	b9a26a569257fbe02c10d3735587f10ee58e4281dba43474dbdef4ace8ea7101
SHA512	1e88edf97f62282323928a304762864d69e0e5a1b98c7824cf7ee8af92a5a7d17586e30165c6b6ec4b64ea64dd97d6f2b3a3ef880d
ssdeep	1536:BdQGY/Ni+mo06N1homALeoYbrAUD7Qum5T9Xlvgj5MX7jbthYWL3:DQGYFFzxAgoYbrAOQum5TsgjbHP
Entropy	6.406443

Antivirus

Ahnlab	Trojan/Win32.Akdoor
Antiy	Trojan/Win32.Autophyte
Avira	TR/AD.APTLazerus.zobau
BitDefender	Gen:Variant.Graftor.487501
Cyren	W32/Trojan.BCDT-8700
ESET	a variant of Win32/NukeSped.AU trojan
Emsisoft	Gen:Variant.Graftor.487501 (B)
Huorong	Trojan/NukeSped.a
Ikarus	Trojan.Win32.NukeSped
K7	Trojan ( 0052cf421 )
McAfee	Trojan-HidCobra
Microsoft Security Essentials	Trojan:Win32/Autophyte.Eldha
NANOAV	Trojan.Win32.NukeSped.fyoobu
Quick Heal	Trojan.Generic
Sophos	Troj/NukeSpe-G
Symantec	Trojan Horse
TrendMicro	BKDR_HO.9D36C86C

TrendMicro House Call	BKDR_HO.9D36C86C
VirusBlokAda	BScope.Trojan.Autophyte
Zillya!	Trojan.NukeSped.Win32.158

Yara Rules

hidden_cobra_consolidated.yara	rule hoplight { meta: Author = "CISA trusted 3rd party" Incident = "10135536" Date = "2019-08-14" Category = "HOPLIGHT" Description = "Detects polarSSL certificates" strings: \$polarSSL = "fjiejffndxklfsdkfjsaadiepwn" 56 b4 c2 } \$p3 = { 55 84 26 fe } condition: (uint16(0) == 0x5A4D and uint16(uint32(0x3c)) == 0x4550) and (\$pol
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ssdeep Matches

No matches found.

PE Metadata

Compile Date	2017-08-11 01:03:45-04:00
Import Hash	e56949fef3294200cb30be8009694a42

PE Sections

MD5	Name	Raw Size	Entropy
3d755df7f28ddb5a661a68637cfd23e	header	4096	0.647583
8f28409d19efb02746f0cc7f186ac3e3	.text	86016	6.553916
03ec21be9a3702ad9b6a107a387c2be1	.rdata	16384	5.844150
cecd220a4af1182a425b07c4547fd1e6	.data	4096	2.638490

Packers/Compilers/Cryptors

Microsoft Visual C++ v6.0
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Relationships

b9a26a5692...	Connected_To	117.239.241.2
b9a26a5692...	Connected_To	195.158.234.60
b9a26a5692...	Connected_To	218.255.24.226

Description



This artifact is a malicious PE32 executable with similar characteristics of those described in 23E27E5482E3F55BF828DAB885569033 above.

When the malware runs it checks a config file to determine where it should beacon back to. If the config file has not been modified the malware will beacon b  
IPs:

--Begin IP List--

117.239.241.2

218.255.24.226

195.158.234.60

--End IP List--

Client uses uk.yahoo.com for client hello server name instead of naver.com.

117.239.241.2

Relationships

117.239.241.2	Connected_From	b9a26a569257fbe02c10d3735587f10ee58e4281dba43474dbdef4ace8ea7101
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218.255.24.226

Relationships

218.255.24.226	Connected_From	b9a26a569257fbe02c10d3735587f10ee58e4281dba43474dbdef4ace8ea7101
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195.158.234.60

Relationships

195.158.234.60	Connected_From	b9a26a569257fbe02c10d3735587f10ee58e4281dba43474dbdef4ace8ea7101
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1a01b8a4c505db70f9e199337ce7f497b3dd42f25ad06487e29385580bca3676

Tags

trojan

Details

Name	07D2B057D2385A4CDF413E8D342305DF
Size	2608223 bytes
Type	PE32+ executable (GUI) x86-64, for MS Windows
MD5	07d2b057d2385a4cdf413e8d342305df
SHA1	1991e7797b2e97179b7604497f7f6c39eba2229b
SHA256	1a01b8a4c505db70f9e199337ce7f497b3dd42f25ad06487e29385580bca3676
SHA512	fa2535b08c43c0dae210c12c4a5445925723d50f8828e0d0b89ec70d08aaa2f1d222eea9fd4be40c46c9024b3ed9bfe33e16724496
ssdeep	49152:2sn+T/ymkSsvc1vb+oNE0aPmztSWNz25hqhbR5C7kcaFZweRrjxQTgZdy:2sck5ojp+Ef25a15CjywSJQMzy
Entropy	7.981828

Antivirus

Ahnlab	Trojan/Win32.Akdoor
Antiy	Trojan/Win64.NukeSped
Avira	TR/NukeSped.cgnux
BitDefender	Trojan.GenericKD.41793016
Cyren	W64/Trojan.DUQO-0431
ESET	a variant of Win64/NukeSped.AH trojan
Emsisoft	Trojan.GenericKD.41793016 (B)
Ikarus	Trojan.Win64.Nukesped
K7	Trojan ( 00545d8d1 )
McAfee	Trojan-HidCobra.a
Microsoft Security Essentials	Trojan:Win32/Casdet!Irfn
NANOAV	Trojan.Win64.NukeSped.gayjsq

Quick Heal	Trojan.Casdet
Sophos	Troj/NukeSpe-H
Symantec	Trojan.Hoplight
TACHYON	Trojan/W64.Agent.2608223
TrendMicro	TSPY_KI.58F058EF
TrendMicro House Call	TSPY_KI.58F058EF
VirusBlokAda	Trojan.Agent
Zillya!	Trojan.Agent.Win32.1135323

Yara Rules

No matches found.

ssdeep Matches

No matches found.

PE Metadata

Compile Date	2018-02-12 15:06:28-05:00
Import Hash	347c977c6137a340c7cc0fcd5b224aef

PE Sections

MD5	Name	Raw Size	Entropy
28fc69ad12a0765af4cc06fbd261cb24	header	1024	2.672166
88425c71e7e293d43db9868e4693b365	.text	89088	6.415516
bb0048e4f3851ea07b365828ddf613f7	.rdata	26624	4.912250
50e3efe1a6ea325c87f8e86e2fbd40b4	.data	5632	2.093641
f56a65eb9562d6c6d607f867d1d0fd09	.pdata	4608	4.725531
6a9a84d523e53e1d43c31b2cc069930c	.rsrc	1536	4.308150
dab5e290c15de9634d93d8f592a44633	.reloc	1536	2.912599

Packers/Compilers/Cryptors

Microsoft Visual C++ 8.0 (DLL)

Description

This artifact is a malicious 64bit Windows dynamic library. When run the malware drops a Themida packed DLL. This DLL runs and drops another DLL that acts as a RAT. This RAT is very similar to version 2 in op codes and functionality however it uses real TLS instead of the LFSR encryption. Additionally it encodes it's data with XOR. The data is TLS encrypted.

73dcb7639c1f81d3f7c4931d32787bdf07bd98550888c4b29b1058b2d5a7ca33

Tags

trojan

Details

Name	3EDCE4D49A2F31B8BA9BAD0B8EF54963
Size	147456 bytes
Type	PE32 executable (DLL) (GUI) Intel 80386, for MS Windows
MD5	3edce4d49a2f31b8ba9bad0b8ef54963
SHA1	1209582451283c46f29a5185f451aa3c989723c9
SHA256	73dcb7639c1f81d3f7c4931d32787bdf07bd98550888c4b29b1058b2d5a7ca33
SHA512	0d3de1758b44597ccc4dad46a9b42626237da425a41b8833bf7549a3c809bd7432ce938cd8757b362e2268bead45a0b212c96cc8
ssdeep	3072:bQGYFFzsaXlvJdbx9NAzDZWaNoh05WKRYW7IWwh7:bSFhLIh9N8DZWaNoG5W8VIWC
Entropy	6.605430

Antivirus

Ahnlab	Trojan/Win32.Akdoor
Antiy	Trojan/Win32.Autophyte
Avira	TR/AD.APTLazarus.jtxjg
BitDefender	Gen:Variant.Zusy.290462
Cyren	W32/Trojan.DXJJ-0934
ESET	a variant of Win32/NukeSped.AU trojan
Emsisoft	Gen:Variant.Zusy.290462 (B)

Ikarus	Trojan.Win32.NukeSped
K7	Trojan ( 0052cf421 )
McAfee	Trojan-HidCobra
Microsoft Security Essentials	Trojan:Win32/Autophyte.Eldha
NetGate	Trojan.Win32.Malware
Quick Heal	Trojan.Generic
Sophos	Troj/NukeSpe-I
Symantec	Trojan.Hoplight
TrendMicro	BKDR_HO.9D36C86C
TrendMicro House Call	BKDR_HO.9D36C86C
VirusBlokAda	Trojan.Autophyte
Zillya!	Trojan.NukeSped.Win32.154

Yara Rules

hidden_cobra_consolidated.yara	rule hoplight { meta: Author = "CISA trusted 3rd party" Incident = "10135536" Date = "2019-08-14" Category = "HOPLIGHT" Description = "Detects polarSSL certificates" strings: \$polarSSL = "fjiejffndxklfsdkfjsaadiepwn" : 56 b4 c2 } \$p3 = { 55 84 26 fe } condition: (uint16(0) == 0x5A4D and uint16(uint32(0x3c)) == 0x4550) and (\$polarSSL == \$p3)
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ssdeep Matches

No matches found.

PE Metadata

Compile Date	2017-07-11 14:26:59-04:00
Import Hash	cf3e2269004b18054d77ec54601edfd1

PE Sections

MD5	Name	Raw Size	Entropy
f31fc1b632aa011a29b506385890b3bb	header	4096	0.703326
0b401c68fa1a8f024f25189b31fd8caf	.text	118784	6.634510

78ad5231f5184af8093a2f31ef1f9952	.rdata	16384	6.126224
8c48fdefd1785500380702796882a0b6	.data	4096	3.860135
e6b0be8044e573ca9fc84de173a7ca3d	.reloc	4096	5.404736

Packers/Compilers/Cryptors

Microsoft Visual C++ 6.0 DLL

Description

This artifact is a malicious PE32 executable with similar characteristics of those described in 23E27E5482E3F55BF828DAB885569033 above.

This file is dropped by a different binary into System32 and then run as a service. When the malware runs it checks a config file to determine where it should be. If the file has not been modified the malware will beacon back to the following hard coded IPs:

--Begin IP List--

192.168.1.2

--End IP List--

Client uses uk.yahoo.com for client hello server name instead of naver.com.  
084b21bc32ee19af98f85aee8204a148032ce7eabef668481b919195dd62b319

Tags

trojan

Details

Name	170A55F7C0448F1741E60B01DCEC9CFB
Size	197632 bytes
Type	PE32+ executable (DLL) (GUI) x86-64, for MS Windows
MD5	170a55f7c0448f1741e60b01dcec9cfb

SHA1	b6b84783816cca123adbc18e78d3b847f04f1d32
SHA256	084b21bc32ee19af98f85aee8204a148032ce7eabef668481b919195dd62b319
SHA512	a014cf5772ed993951dc62026e3acef174c424e47fd56583a1563c692ac3ed2ae5e1d51d34974ed04db11824dc9c76290297244e28
ssdeep	6144:XT1NVhDJSUaZcdHltR3SG88+Tlm5T7BRWj:xx9tuVSe+Tlm5Tt
Entropy	6.262340

Antivirus

Ahnlab	Trojan/Win32.Akdoor
Antiy	Trojan/Win32.Casdet
Avira	TR/AD.APTLazerus.dsenk
BitDefender	Trojan.GenericKD.32643407
Cyren	W64/Trojan3.AOLF
ESET	a variant of Win32/NukeSped.AU trojan
Emsisoft	Trojan.GenericKD.32643407 (B)
Ikarus	Trojan.Win32.NukeSped
K7	Trojan ( 005233111 )
McAfee	Trojan-HidCobra
Microsoft Security Essentials	Trojan:Win32/Casdet!rfn
NANOAV	Trojan.Win64.NukeSped.fzpbxb
Quick Heal	Trojan.Multi
Sophos	Troj/NukeSpe-G
Symantec	Trojan.Hoplight
TrendMicro	TROJ64_.655BEC93
TrendMicro House Call	TROJ64_.655BEC93
VirusBlokAda	Trojan.Agent

Zillya!

Trojan.Agent.Win32.1134660

Yara Rules

hidden\_cobra\_consolidated.yara

rule hoplight { meta: Author = "CISA trusted 3rd party" Incident = "10135536" Date = "2019-08-14" Category = "HOPLIGHT" Description = "Detects polarSSL certificates" strings: \$polarSSL = "fjiejffndxklfsdkfjsaadiepwn" : 56 b4 c2 } \$p3 = { 55 84 26 fe } condition: (uint16(0) == 0x5A4D and uint16(uint32(0x3c)) == 0x4550) and (\$polarSSL == \$p3)

ssdeep Matches

No matches found.

PE Metadata

Compile Date

2017-05-03 22:40:47-04:00

Import Hash

0675d7e21ce264449360c0b797c279e7

PE Sections

MD5	Name	Raw Size	Entropy
48a2d611f70a4718084857fa2f732b21	header	1024	2.780205
aaf67ea89d12bea95c148274c71ebac5	.text	44544	6.440744
91171a72af025ca7098ba6c94ecbb2a0	.rdata	25600	3.935800
fc2a61b6f1b29162f93fad1660c4b8af	.data	120320	6.379891
114b795f9c567e0a81a04cec6ae1a0b4	.pdata	2560	4.287495
17c80d03f2f5729407ec55eca7e1f5b2	.rsrc	2048	2.948558
c9243c94e36bc012d7d5eb0a3f588dfb	.reloc	1536	5.079827

Description

This artifact is a malicious 64bit Windows dynamic library. The DLL can be run using the DoStart export. This export calls write file to load the actual implant into memory. The implant is located at "C:\windows\msncone.exe" and then calls Win Exec to execute the implant.

c66ef8652e15b579b409170658c95d35cf6231c7ce030b172692f911e7dcff8

Tags

trojan

Details

Name

E4ED26D5E2A84CC5E48D285E4EA898C0



Size	157696 bytes
Type	PE32 executable (GUI) Intel 80386, for MS Windows
MD5	e4ed26d5e2a84cc5e48d285e4ea898c0
SHA1	c3d28d8e49a24a0c7082053d22597be9b58302b1
SHA256	c66ef8652e15b579b409170658c95d35cfd6231c7ce030b172692f911e7dcff8
SHA512	0c0b8fa4e83036b9dbe88b193e93b412c47eee8c6f4b04f04082288d7dce0f0d687e7581e624145bd357e5ad70584b9ab4d9f5a950
ssdeep	3072:MzviXzovLFOLUAqWilvLc1V2n9+zEty7+LEfq0Mg3ewPWTc:Mzv+zovLFOLFqhlvLQz7ZqueweT
Entropy	6.446363

Antivirus

Ahnlab	Trojan/Win32.Crypt
Antiy	Trojan/Win32.Casdet
Avira	TR/AD.APTLazerus.tmifd
BitDefender	Trojan.GenericKD.32416111
Cyren	W32/Trojan.GVKT-3327
ESET	a variant of Win32/NukeSped.AU trojan
Emsisoft	Trojan.GenericKD.32416111 (B)
Ikarus	Trojan.Win32.NukeSped
K7	Trojan ( 0052cf421 )
McAfee	Trojan-HidCobra
Microsoft Security Essentials	Trojan:Win32/Nukesped.PA!MTB
NANOAV	Trojan.Win32.NukeSped.fzlqhl
NetGate	Trojan.Win32.Malware
Quick Heal	Trojan.Generic
Sophos	Troj/NukeSpe-E

Symantec	Trojan.Hopligh
TrendMicro	TROJ_FR.D1E707E2
TrendMicro House Call	TROJ_FR.D1E707E2
Vir.IT eXplorer	Trojan.Win32.Genus.BRN
VirusBlokAda	Trojan.Casdet
Zillya!	Trojan.NukeSped.Win32.153

Yara Rules

hidden_cobra_consolidated.yara	rule hoplight { meta: Author = "CISA trusted 3rd party" Incident = "10135536" Date = "2019-08-14" Category = "HOPLIGHT" Description = "Detects polarSSL certificates" strings: \$polarSSL = "fjiejffndxklfsdkfjsaadiepwn" 56 b4 c2 } \$p3 = { 55 84 26 fe } condition: (uint16(0) == 0x5A4D and uint16(uint32(0x3c)) == 0x4550) and (\$polarSSL == \$p3)
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ssdeep Matches

No matches found.

PE Metadata

Compile Date	2017-10-23 16:44:37-04:00
Import Hash	861401f76d1251e0d08a8ade1a5ed38c

PE Sections

MD5	Name	Raw Size	Entropy
0aa18a6525a2203ee52f6df5f9622dcb	header	1024	2.637312
33e3584e4c52c24e16fc108224a3f6a3	.text	132608	6.153434
8a43450710359fae49269f1217924cf5	.rdata	16896	6.299497
b0c95d35585e130bea58057c11e9d53b	.data	3584	5.455587
3a4fdc31bb49b29d6f19b94641d14ee8	.rsrc	512	5.112624
f74e21bd34aa3a05131ae77f0b48c2b2	.reloc	3072	5.875833

Packers/Compilers/Cryptors

Microsoft Visual C++ ??

Description

This artifact is a malicious PE32 executable that is an add-on tool for other Hoplight implants.

When malware is run it opens a log file C:\WINDOWS\Temp\ndb.dat that is used for the remainder of the program to log all activity.

The malware runs with an IP as an argument. It sends out a beacon to this IP and connects to it using the same FakeTLS/PolarSSL protocol as the other sample to a C2, it uses a named pipe called \\.\pipe\AnonymousPipe to connect to a running implant and sends tasking to the running implant. The implant returns the named pipe and the malware sends the results back to the C2.

fe43bc385b30796f5e2d94dfa720903c70e66bc91dfdcfb2f3986a1fea3fe8c5

Tags

trojan

Details

Name	F315BE41D9765D69AD60F0B4D29E4300
Size	147456 bytes
Type	PE32 executable (DLL) (GUI) Intel 80386, for MS Windows
MD5	f315be41d9765d69ad60f0b4d29e4300
SHA1	f60c2bd78436a14e35a7e85feccb319d3cc040eb
SHA256	fe43bc385b30796f5e2d94dfa720903c70e66bc91dfdcfb2f3986a1fea3fe8c5
SHA512	bc8f821b4989076e441fbe5668cee0a388adcc375fac4a553f4c27423cd61c4500739820033b32f4197820ddf34decf1a043c6d3461
ssdeep	3072:pQWbIW5G5bzxbT33FiDZWtNArLioB4Gwhes:pR3SGtJ33YDZWtNMLiGah
Entropy	6.477832

Antivirus

Ahnlab	Trojan/Win32.Agent
Antiy	Trojan/Win32.Autophyte
Avira	TR/AD.APTLazarus.ifaaj
BitDefender	Gen:Variant.Graftor.487501

Cyren	W32/Trojan.CTPG-1488
ESET	a variant of Win32/NukeSped.AU trojan
Emsisoft	Gen:Variant.Graftor.487501 (B)
Ikarus	Trojan.Win32.NukeSped
K7	Trojan ( 0052cf421 )
McAfee	Trojan-HidCobra
Microsoft Security Essentials	Trojan:Win32/Autophyte.Eldha
NetGate	Trojan.Win32.Malware
Quick Heal	Trojan.Generic
Sophos	Troj/NukeSpe-D
Symantec	Trojan Horse
TrendMicro	BKDR_HO.9D36C86C
TrendMicro House Call	BKDR_HO.9D36C86C
VirusBlokAda	BScope.Trojan.Autophyte
Zillya!	Trojan.NukeSped.Win32.161

Yara Rules

hidden_cobra_consolidated.yara	rule hoplight { meta: Author = "CISA trusted 3rd party" Incident = "10135536" Date = "2019-08-14" Category = "HOPLIGHT" Description = "Detects polarSSL certificates" strings: \$polarSSL = "fjiejffndxklfsdkfjsaadiepwn" : 56 b4 c2 } \$p3 = { 55 84 26 fe } condition: (uint16(0) == 0x5A4D and uint16(uint32(0x3c)) == 0x4550) and (\$pol
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ssdeep Matches

No matches found.

PE Metadata

Compile Date	2017-08-21 12:39:06-04:00
Import Hash	00c4520b07e61d244e7e7b942ebae39f

PE Sections

MD5	Name	Raw Size	Entropy
7991745d0f6ed295154f066bb53ccbc2	header	4096	0.767780
cd39ffb10726106d9b85172804784b97	.text	114688	6.620841
3ab93f20dc7859f5510efbf121790dd7	.rdata	16384	5.991690
9fdf9be0cd049c58cb3718927458e69c	.data	4096	3.880827
330d3d9d2c3c1a342547cea468095f2a	.rsrc	4096	1.138029
cefd737bf48bc8375f92c8f7d9755e3a	.reloc	4096	5.221555

Packers/Compilers/Cryptors

Microsoft Visual C++ 6.0 DLL  
f8f7720785f7e75bd6407ac2acd63f90ab6c2907d3619162dc41a8ffa40a5d03

Tags

trojan

Details

Name	D2DA675A8ADFEF9D0C146154084FFF62
Size	139264 bytes
Type	PE32 executable (GUI) Intel 80386, for MS Windows
MD5	d2da675a8adfef9d0c146154084fff62
SHA1	c55d080ea24e542397bbbfa00edc6402ec1c902c
SHA256	f8f7720785f7e75bd6407ac2acd63f90ab6c2907d3619162dc41a8ffa40a5d03
SHA512	06f531e49154d59f684475da95693df1fccd50b505e6d3ca028c9d84fcfc79ef287704dd0b24b022bfac6ba9ee581d19f440773dd00
ssdeep	3072:1QGYFFzYCGUXBk/hbpjYr9Lde0NPV1Y88PxBE:1SFhYaXBkjYJLde0Nd1Hqb
Entropy	6.605300

Antivirus

Ahnlab	Trojan/Win32.Akdoor
Antiy	Trojan/Win32.Autophyte

Avira	TR/AD.APTLazerus.denpe
BitDefender	Gen:Variant.Graftor.487501
Cyren	W32/Trojan.ATKI-5308
ESET	a variant of Win32/NukeSped.AU trojan
Emsisoft	Gen:Variant.Graftor.487501 (B)
Huorong	Trojan/NukeSped.a
Ikarus	Trojan.Win32.NukeSped
K7	Trojan ( 0052cf421 )
McAfee	Trojan-FPIA!D2DA675A8ADF
Microsoft Security Essentials	Trojan:Win32/Autophyte.Eldha
NANOAV	Trojan.Win32.NukeSped.fyopnf
NetGate	Trojan.Win32.Malware
Quick Heal	Trojan.Generic
Sophos	Troj/NukeSpe-F
Symantec	Trojan Horse
TrendMicro	BKDR_HO.9D36C86C
TrendMicro House Call	BKDR_HO.9D36C86C
VirusBlokAda	BScope.Trojan.Autophyte
Zillya!	Trojan.NukeSped.Win32.146

Yara Rules

hidden_cobra_consolidated.yara	rule hoplight { meta: Author = "CISA trusted 3rd party" Incident = "10135536" Date = "2019-08-14" Category = "HOPLIGHT" Description = "Detects polarSSL certificates" strings: \$polarSSL = "fjiejffndxklfsdkfjsaadiepwn" : 56 b4 c2 } \$p3 = { 55 84 26 fe } condition: (uint16(0) == 0x5A4D and uint16(uint32(0x3c)) == 0x4550) and (\$polarSSL == \$p3)
--------------------------------	--

ssdeep Matches

No matches found.

PE Metadata

Compile Date	2017-07-14 18:40:25-04:00
Import Hash	86e90e40d8e53d1e5b06a22353734ed4

PE Sections

MD5	Name	Raw Size	Entropy
bf34ee8fcf71c0aa14531ae02d74f359	header	4096	0.647238
66e2b83909b4d47d3e3d20ad44df1acc	.text	114688	6.660284
d20ad0b8b42883ae6eb4c89cfbbd893b	.rdata	16384	6.057701
5e1b09084dfc15dda52bdac606eae3d	.data	4096	3.824972

Packers/Compilers/Cryptors

Microsoft Visual C++ v6.0
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Description

This artifact is a malicious PE32 executable with similar characteristics of those described in 23E27E5482E3F55BF828DAB885569033 above.

When the malware runs it checks a config file to determine where it should beacon back to. If the config file has not been modified the malware will beacon back to the following IP addresses:

--Begin IP List--

10.10.30.130

--End IP List--

Client uses uk.yahoo.com for client hello server name instead of naver.com.  
32ec329301aa4547b4ef4800159940feb950785f1ab68d85a14d363e0ff2bc11

Tags

trojan

Details

Name	38FC56965DCCD18F39F8A945F6EBC439
Size	122880 bytes
Type	PE32 executable (GUI) Intel 80386, for MS Windows
MD5	38fc56965dccd18f39f8a945f6ebc439
SHA1	50736517491396015afdf1239017b9abd16a3ce9
SHA256	32ec329301aa4547b4ef4800159940feb950785f1ab68d85a14d363e0ff2bc11
SHA512	70a1568df0e97e8ab020f108e52ec861a0cdae936ac3340f1657565a8ac8a253179b4c451a79cb7c362fe60ff70be2694705110c6736
ssdeep	1536:kSQWbe9BzK0xGtGVyDBWikDsD3bG0aII2Tm5TPb+5MI7jcg9YL230:fQWbIWSG61UD3bGUI2Tm5TP2Njcmn+
Entropy	6.236928

Antivirus

Ahnlab	Trojan/Win32.Crypt
Antiy	Trojan/Win32.AGeneric
Avira	TR/AD.APTLazarus.sogzc
BitDefender	Gen:Variant.Graftor.487501
Cyren	W32/Trojan.ACES-2943
ESET	a variant of Win32/NukeSped.AU trojan
Emsisoft	Gen:Variant.Graftor.487501 (B)
Huorong	Trojan/NukeSped.a
Ikarus	Trojan.Win32.NukeSped
K7	Trojan ( 0052cf421 )
McAfee	Trojan-FPIA!38FC56965DCC
Microsoft Security Essentials	Trojan:Win32/Nukesped.PA!MTB



NANOAV	Trojan.Win32.HiddenCobra.fyqdsdsh
NetGate	Trojan.Win32.Malware
Quick Heal	Trojan.Generic
Sophos	Troj/NukeSpe-F
Symantec	Trojan Horse
TrendMicro	BKDR_HO.9D36C86C
TrendMicro House Call	BKDR_HO.9D36C86C
VirusBlokAda	BScope.Trojan.Autophyte
Zillya!	Trojan.NukeSped.Win32.149

Yara Rules

hidden_cobra_consolidated.yara	rule hoplight { meta: Author = "CISA trusted 3rd party" Incident = "10135536" Date = "2019-08-14" Category = "HOPLIGHT" Description = "Detects polarSSL certificates" strings: \$polarSSL = "fjiejffndxklfsdkfjsaadiepwn" : 56 b4 c2 } \$p3 = { 55 84 26 fe } condition: (uint16(0) == 0x5A4D and uint16(uint32(0x3c)) == 0x4550) and (\$polarSSL == \$p3)
--------------------------------	--

ssdeep Matches

No matches found.

PE Metadata

Compile Date	2017-12-12 12:58:45-05:00
Import Hash	2054fd7bbbbcb62441ba2a21c156d403

PE Sections

MD5	Name	Raw Size	Entropy
39af78f4af9f093c2eb4765202eab41a	header	4096	0.704943
48f0a09061c556cbde93f864f2adb2e3	.text	94208	6.479768
65fe1d182b2f7322719d142a81a901a8	.rdata	16384	5.812175
43cd1b0954c2785708b9e8da200242e9	.data	4096	2.465375
cab878079ca8c3f53ed3e0d0414e3a3a	.rsrc	4096	1.194369

Packers/Compilers/Cryptors

Microsoft Visual C++ v6.0

Description

This artifact is a malicious PE32 executable with similar characteristics of those described in 23E27E5482E3F55BF828DAB885569033 above.

When the malware runs it checks a config file to determine where it should beacon back to. If the config file has not been modified the malware will beacon back to the following IP addresses:  
IPs:

--Begin IP List--

218.255.24.226

--End IP List--

Client uses www.bing.com, Microsoft.com, and facebook.com for client hello server name instead of naver.com.

8a1d57ee05d29a730864299376b830a7e127f089e500e148d96d0868b7c5b520

Tags

backdoortrojan

Details

Name	5C0C1B4C3B1CFD455AC05ACE994AED4B
Size	348160 bytes
Type	PE32 executable (DLL) (GUI) Intel 80386, for MS Windows
MD5	5c0c1b4c3b1cfd455ac05ace994aed4b
SHA1	69cda1f1adeeed455b519f9cf188e7787b5efa07
SHA256	8a1d57ee05d29a730864299376b830a7e127f089e500e148d96d0868b7c5b520
SHA512	084d2223934848594e23dbedab5064f98cd3d07d0783d4a7de66800a2a823daf73b0b044aea0ff9516538e6c478c8d18018c006c7
ssdeep	6144:aR3SGkuDrOZm5Te5EXzO7h2ZMB6zJJ+KFvmjyFdZDs0dRb83hYnOQSzS7:aVSWrOZm5TeOjVMojFFv+mdzDs+kYnOS

Entropy	7.540376
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Antivirus

Ahnlab	Backdoor/Win32.Akdoor
Antiy	Trojan/Win32.Autophyte
Avira	TR/AD.APTLazerus.itcpp
BitDefender	Gen:Variant.Graftor.487501
Cyren	W32/Trojan.HLGX-3930
ESET	a variant of Win32/NukeSped.AU trojan
Emsisoft	Gen:Variant.Graftor.487501 (B)
Ikarus	Trojan.Win32.NukeSped
K7	Trojan ( 0052cf421 )
McAfee	Trojan-HidCobra
Microsoft Security Essentials	Trojan:Win32/Autophyte.Eldha
NetGate	Trojan.Win32.Malware
Quick Heal	Trojan.Generic
Sophos	Troj/NukeSpe-I
Symantec	Trojan.Hoplight
TrendMicro	BKDR_HO.9D36C86C
TrendMicro House Call	BKDR_HO.9D36C86C
VirusBlokAda	Trojan.Autophyte
Zillya!	Trojan.NukeSped.Win32.163

Yara Rules

hidden_cobra_consolidated.yara	rule hoplight { meta: Author = "CISA trusted 3rd party" Incident = "10135536" Date = "2019-08-14" Category = "HOPLIGHT" Description = "Detects polarSSL certificates" strings: \$polarSSL = "fjiejffndxklfsdkfjsaadiepwn" : 56 b4 c2 } \$p3 = { 55 84 26 fe } condition: (uint16(0) == 0x5A4D and uint16(uint32(0x3c)) == 0x4550) and (\$polarSSL == \$p3)
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ssdeep Matches

No matches found.

PE Metadata

Compile Date	2017-08-12 05:20:38-04:00
Import Hash	3ca68e2a005e05e2c4831de87ae091c0

PE Sections

MD5	Name	Raw Size	Entropy
787ed8122e53d5ea17e3ece6d9fb7342	header	4096	0.782305
83b06d297acb20b05505da2d09905abd	.text	102400	6.523509
b2e739b37837f1c2b941660711daf98f	.rdata	16384	5.951907
cd8aa1387168caeb4604401aedb143eb	.data	4096	2.718596
8840ce03428c311935a20ac968c10ce7	.rsrc	217088	7.888219
2f0ede5fcdada29ec11ad8cd25c53f77	.reloc	4096	4.923777

Packers/Compilers/Cryptors

Microsoft Visual C++ 6.0 DLL
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Description

This artifact is a malicious PE32 executable with similar characteristics of those described in 23E27E5482E3F55BF828DAB885569033 above.

This file is dropped by a different binary into System32 and then run as a service. When the malware runs it checks a config file to determine where it should be installed. If the file has not been modified the malware will beacon back to the following hard coded IPs:

--Begin IP List--

81.94.192.147

112.175.92.57

181.39.135.126

197.211.212.59

--End IP List--

0608e411348905145a267a9beaf5cd3527f11f95c4afde4c45998f066f418571

Tags

trojan

Details

Name	34E56056E5741F33D823859E77235ED9
Size	151552 bytes
Type	PE32 executable (GUI) Intel 80386, for MS Windows
MD5	34e56056e5741f33d823859e77235ed9
SHA1	fcc2dcbac7d3cbcf749f6aab2f37cc4b62d0bb64
SHA256	0608e411348905145a267a9beaf5cd3527f11f95c4afde4c45998f066f418571
SHA512	93ac57f0b9bf48e39870b88f918f9b6e33404c1667d5f98d0965736e9e001b18152530f1c3a843b91929d308f63739faf3de62077bb
ssdeep	3072:nQWbIWSGw0CkXbhM1Vsm5TJYwMrzPoXL8GnQj3y3:nR3SGQYM16m5TJDwPo7bUC3
Entropy	6.652398

Antivirus

Ahnlab	Trojan/Win32.Agent
Antiy	Trojan/Win32.Autophyte
Avira	HEUR/AGEN.1023221
BitDefender	Gen:Variant.Graftor.487501
Cyren	W32/Trojan.PGQL-0621
ESET	a variant of Win32/NukeSped.AU trojan
Emsisoft	Gen:Variant.Graftor.487501 (B)

Huorong	Trojan/NukeSped.a
Ikarus	Trojan.Win32.NukeSped
K7	Trojan ( 0052cf421 )
McAfee	Trojan-FPIA!34E56056E574
Microsoft Security Essentials	Trojan:Win32/Autophyte.Eldha
NANOAV	Trojan.Win32.NukeSped.fyqduv
Quick Heal	Trojan.Generic
Sophos	Troj/NukeSpe-F
Symantec	Trojan Horse
TrendMicro	TROJ_FR.D0256DD5
TrendMicro House Call	TROJ_FR.D0256DD5
VirusBlokAda	BScope.Trojan.Autophyte
Zillya!	Trojan.NukeSped.Win32.166

Yara Rules

hidden_cobra_consolidated.yara	rule hoplight { meta: Author = "CISA trusted 3rd party" Incident = "10135536" Date = "2019-08-14" Category = "HOPLIGHT" Description = "Detects polarSSL certificates" strings: \$polarSSL = "fjiejffndxklfsdkfjsaadiepwn" : 56 b4 c2 } \$p3 = { 55 84 26 fe } condition: (uint16(0) == 0x5A4D and uint16(uint32(0x3c)) == 0x4550) and (\$polarSSL == \$p3)
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ssdeep Matches

No matches found.

PE Metadata

Compile Date	2017-08-12 03:44:57-04:00
Import Hash	e93a06b89e75751a9ac2c094ca7da8b0

PE Sections

MD5	Name	Raw Size	Entropy
a45f9a7c2174752a1472fb634ba9d8c7	header	4096	0.715236

2b9f5ce0725453a209a416ab7a13f3df	.text	98304	6.576807
03605ec3eefe3b70e118cea4b8655229	.rdata	16384	5.866137
5ac0ab0641ec076e15dd1468e11c57cd	.data	4096	2.680020
58ede934084bbe73fa7f9e0d32c4fafb	.rsrc	28672	7.045289

Packers/Compilers/Cryptors

Microsoft Visual C++ v6.0

Relationships

0608e41134...	Connected_To	14.140.116.172
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Description

This artifact is a malicious PE32 executable with similar characteristics of those described in 23E27E5482E3F55BF828DAB885569033 above.

When the malware runs it checks a config file to determine where it should beacon back to. If the config file has not been modified the malware will beacon b  
IPs:

---Begin IP List---

14.140.116.172

---End IP List---

Client uses uk.yahoo.com for client hello server name instead of naver.com.

14.140.116.172

Relationships

14.140.116.172	Connected_From	0608e411348905145a267a9beaf5cd3527f11f95c4afde4c45998f066f418571
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Description

The file 34E56056E5741F33D823859E77235ED9 beacons to this hard coded IP.

b05aae59b3c1d024b19c88448811debef1eada2f51761a5c41e70da3db7615a9

Tags

trojan

Details

Name	2FF1688FE866EC2871169197F9D46936
Size	229500 bytes
Type	PE32 executable (GUI) Intel 80386, for MS Windows
MD5	2ff1688fe866ec2871169197f9d46936
SHA1	6dc37ff32ea70cbd0078f1881a351a0a4748d10e
SHA256	b05aae59b3c1d024b19c88448811debef1eada2f51761a5c41e70da3db7615a9
SHA512	91c3a6e84ca728ecc26d63b91a09f3081288c9b9592430035b9ea50ba7cf2d4b4ddba4711933d17013d3d06fcb8d70789a37ddfa5c7
ssdeep	6144:GANjUaXCXwz+vLFOLEq3VNwO9zyPqYNkHms:bNjxXgA9uPqR
Entropy	6.385793

Antivirus

Ahnlab	Trojan/Win32.Agent
Antiy	Trojan/Win32.NukeSped
Avira	TR/AD.APTLazerus.oytdw
BitDefender	Trojan.GenericKD.32416090
Cyren	W32/Trojan.GCCR-6631
ESET	a variant of Win32/NukeSped.AI trojan
Emsisoft	Trojan.GenericKD.32416090 (B)
Ikarus	Trojan.Win32.NukeSped
K7	Trojan ( 005329311 )
McAfee	Trojan-HidCobra



Microsoft Security Essentials	Trojan.Win32/Nukesped.PA!MTB
NetGate	Trojan.Win32.Malware
Quick Heal	Trojan.Generic
Sophos	Troj/Inject-DZV
Symantec	Trojan.Gen.MBT
TrendMicro	BKDR_HO.9D36C86C
TrendMicro House Call	BKDR_HO.9D36C86C
Zillya!	Trojan.NukeSped.Win32.160

Yara Rules

hidden_cobra_consolidated.yara	rule hoplight { meta: Author = "CISA trusted 3rd party" Incident = "10135536" Date = "2019-08-14" Category = "HOPLIGHT" Description = "Detects polarSSL certificates" strings: \$polarSSL = "fjiejffndxklfsdkfjsaadiepwn" : 56 b4 c2 } \$p3 = { 55 84 26 fe } condition: (uint16(0) == 0x5A4D and uint16(uint32(0x3c)) == 0x4550) and (\$pol
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ssdeep Matches

No matches found.

PE Metadata

Compile Date	2017-06-13 11:12:43-04:00
Import Hash	8948765c0ef7c91beff2e97907c801d0

PE Sections

MD5	Name	Raw Size	Entropy
eb0f947605842ea84fea9d8d8382f056	header	4096	0.684814
f9aa8191af45813b80031064403835f1	.text	192512	6.400854
bbcbbf5f54deaae51d41d404973c30e4	.rdata	16384	6.228868
8ea12cda731d50b93944d8534c11402c	.data	12288	3.927662
06d5d2729a367d565819e6867d8caea7	.rsrc	4096	3.317978

Packers/Compilers/Cryptors

Microsoft Visual C++ v6.0

Description

This artifact is a malicious PE32 executable with similar characteristics of those described in 23E27E5482E3F55BF828DAB885569033 above.

When the malware runs it checks a config file to determine where it should beacon back to. If the config file has not been modified the malware will beacon back to the following IP addresses:  
IPs:

---Begin IP List---

210.137.6.37

119.18.230.253

221.138.17.152

---End IP List---

Client uses naver.com for client hello server name.

119.18.230.253

Description

The file 2FF1688FE866EC2871169197F9D46936 beacons to this hard coded IP.

210.137.6.37

Description

The file 2FF1688FE866EC2871169197F9D46936 beacons to this hard coded IP.

221.138.17.152

Description

The file 2FF1688FE866EC2871169197F9D46936 beacons to this hard coded IP.

Relationship Summary

2151c1977b...	Connected_To	81.94.192.147
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2151c1977b...	Connected_To	112.175.92.57
2151c1977b...	Related_To	181.39.135.126
2151c1977b...	Related_To	197.211.212.59
2151c1977b...	Related_To	70902623c9cd0cccc8513850072b70732d02c266c7b7e96d2d5b2ed4f5edc289
2151c1977b...	Dropped	96a296d224f285c67bee93c30f8a309157f0daa35dc5b87e410b78630a09cfc7
197.211.212.59	Related_To	2151c1977b4555a1761c12f151969f8e853e26c396fa1a7b74ccba3a48f4525
197.211.212.59	Connected_From	ddea408e178f0412ae78ff5d5adf2439251f68cad4fd853ee466a3c74649642d
197.211.212.59	Connected_From	70034b33f59c6698403293cdc28676c7daa8c49031089efa6eefce41e22dccb3
181.39.135.126	Related_To	2151c1977b4555a1761c12f151969f8e853e26c396fa1a7b74ccba3a48f4525
181.39.135.126	Connected_From	ddea408e178f0412ae78ff5d5adf2439251f68cad4fd853ee466a3c74649642d
181.39.135.126	Connected_From	70034b33f59c6698403293cdc28676c7daa8c49031089efa6eefce41e22dccb3
112.175.92.57	Connected_From	2151c1977b4555a1761c12f151969f8e853e26c396fa1a7b74ccba3a48f4525
112.175.92.57	Connected_From	ddea408e178f0412ae78ff5d5adf2439251f68cad4fd853ee466a3c74649642d
112.175.92.57	Connected_From	70034b33f59c6698403293cdc28676c7daa8c49031089efa6eefce41e22dccb3
112.175.92.57	Connected_From	83228075a604e955d59edc760e4c4ed16eedabfc8f6ac291cf21b4fcbcd1f70a
81.94.192.147	Connected_From	2151c1977b4555a1761c12f151969f8e853e26c396fa1a7b74ccba3a48f4525
81.94.192.147	Connected_From	ddea408e178f0412ae78ff5d5adf2439251f68cad4fd853ee466a3c74649642d
81.94.192.147	Connected_From	70034b33f59c6698403293cdc28676c7daa8c49031089efa6eefce41e22dccb3
70902623c9...	Dropped_By	70034b33f59c6698403293cdc28676c7daa8c49031089efa6eefce41e22dccb3
70902623c9...	Related_To	ddea408e178f0412ae78ff5d5adf2439251f68cad4fd853ee466a3c74649642d
70902623c9...	Related_To	2151c1977b4555a1761c12f151969f8e853e26c396fa1a7b74ccba3a48f4525
70902623c9...	Related_To	70034b33f59c6698403293cdc28676c7daa8c49031089efa6eefce41e22dccb3
70902623c9...	Related_To	12480585e08855109c5972e85d99cda7701fe992bc1754f1a0736f1eebcb004d
ddea408e17...	Connected_To	81.94.192.147

ddea408e17...	Connected_To	112.175.92.57
ddea408e17...	Connected_To	181.39.135.126
ddea408e17...	Connected_To	197.211.212.59
ddea408e17...	Related_To	70902623c9cd0cccc8513850072b70732d02c266c7b7e96d2d5b2ed4f5edc289
ddea408e17...	Connected_To	81.94.192.10
81.94.192.10	Connected_From	ddea408e178f0412ae78ff5d5adf2439251f68cad4fd853ee466a3c74649642d
12480585e0...	Related_To	70902623c9cd0cccc8513850072b70732d02c266c7b7e96d2d5b2ed4f5edc289
12480585e0...	Dropped	49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359
49757cf856...	Dropped_By	12480585e08855109c5972e85d99cda7701fe992bc1754f1a0736f1eebcb004d
49757cf856...	Connected_To	21.252.107.198
49757cf856...	Connected_To	70.224.36.194
49757cf856...	Connected_To	113.114.117.122
49757cf856...	Connected_To	47.206.4.145
49757cf856...	Connected_To	84.49.242.125
49757cf856...	Connected_To	26.165.218.44
49757cf856...	Connected_To	137.139.135.151
49757cf856...	Connected_To	97.90.44.200
49757cf856...	Connected_To	128.200.115.228
49757cf856...	Connected_To	186.169.2.237
21.252.107.198	Connected_From	4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761
21.252.107.198	Connected_From	49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359
70.224.36.194	Connected_From	4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761
70.224.36.194	Connected_From	49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359
113.114.117.122	Connected_From	4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761

113.114.117.122	Connected_From	49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359
47.206.4.145	Connected_From	4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761
47.206.4.145	Connected_From	49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359
84.49.242.125	Connected_From	4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761
84.49.242.125	Connected_From	49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359
26.165.218.44	Connected_From	4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761
26.165.218.44	Connected_From	49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359
137.139.135.151	Connected_From	4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761
137.139.135.151	Connected_From	49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359
97.90.44.200	Connected_From	4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761
97.90.44.200	Connected_From	49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359
128.200.115.228	Connected_From	4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761
128.200.115.228	Connected_From	49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359
186.169.2.237	Connected_From	4a74a9fd40b63218f7504f806fce71dffefc1b1d6ca4bbaadd720b6a89d47761
186.169.2.237	Connected_From	49757cf85657757704656c079785c072bbc233cab942418d99d1f63d43f28359
4a74a9fd40...	Connected_To	21.252.107.198
4a74a9fd40...	Connected_To	70.224.36.194
4a74a9fd40...	Connected_To	113.114.117.122
4a74a9fd40...	Connected_To	47.206.4.145
4a74a9fd40...	Connected_To	84.49.242.125
4a74a9fd40...	Connected_To	26.165.218.44
4a74a9fd40...	Connected_To	137.139.135.151
4a74a9fd40...	Connected_To	97.90.44.200
4a74a9fd40...	Connected_To	128.200.115.228

4a74a9fd40...	Connected_To	186.169.2.237
83228075a6...	Connected_To	112.175.92.57
70034b33f5...	Dropped	cd5ff67ff773cc60c98c35f9e9d514b597cbd148789547ba152ba67bfc0fec8f
70034b33f5...	Dropped	70902623c9cd0cccc8513850072b70732d02c266c7b7e96d2d5b2ed4f5edc289
70034b33f5...	Dropped	96a296d224f285c67bee93c30f8a309157f0daa35dc5b87e410b78630a09cfc7
70034b33f5...	Connected_To	81.94.192.147
70034b33f5...	Connected_To	112.175.92.57
70034b33f5...	Connected_To	181.39.135.126
70034b33f5...	Connected_To	197.211.212.59
70034b33f5...	Related_To	70902623c9cd0cccc8513850072b70732d02c266c7b7e96d2d5b2ed4f5edc289
cd5ff67ff7...	Dropped_By	70034b33f59c6698403293cdc28676c7daa8c49031089efa6eefce41e22dccb3
96a296d224...	Dropped_By	70034b33f59c6698403293cdc28676c7daa8c49031089efa6eefce41e22dccb3
96a296d224...	Dropped_By	2151c1977b4555a1761c12f151969f8e853e26c396fa1a7b74ccba3a48f4525
b9a26a5692...	Connected_To	117.239.241.2
b9a26a5692...	Connected_To	195.158.234.60
b9a26a5692...	Connected_To	218.255.24.226
117.239.241.2	Connected_From	b9a26a569257fbe02c10d3735587f10ee58e4281dba43474dbdef4ace8ea7101
218.255.24.226	Connected_From	b9a26a569257fbe02c10d3735587f10ee58e4281dba43474dbdef4ace8ea7101
195.158.234.60	Connected_From	b9a26a569257fbe02c10d3735587f10ee58e4281dba43474dbdef4ace8ea7101
0608e41134...	Connected_To	14.140.116.172
14.140.116.172	Connected_From	0608e411348905145a267a9beaf5cd3527f11f95c4afde4c45998f066f418571

## Recommendations

CISA recommends that users and administrators consider using the following best practices to strengthen the security posture of their organization's systems. be reviewed by system owners and administrators prior to implementation to avoid unwanted impacts.

- Maintain up-to-date antivirus signatures and engines.
- Keep operating system patches up-to-date.
- Disable File and Printer sharing services. If these services are required, use strong passwords or Active Directory authentication.
- Restrict users' ability (permissions) to install and run unwanted software applications. Do not add users to the local administrators group unless required.
- Enforce a strong password policy and implement regular password changes.
- Exercise caution when opening e-mail attachments even if the attachment is expected and the sender appears to be known.
- Enable a personal firewall on agency workstations, configured to deny unsolicited connection requests.
- Disable unnecessary services on agency workstations and servers.
- Scan for and remove suspicious e-mail attachments; ensure the scanned attachment is its "true file type" (i.e., the extension matches the file header).
- Monitor users' web browsing habits; restrict access to sites with unfavorable content.
- Exercise caution when using removable media (e.g., USB thumb drives, external drives, CDs, etc.).
- Scan all software downloaded from the Internet prior to executing.
- Maintain situational awareness of the latest threats and implement appropriate Access Control Lists (ACLs).

Additional information on malware incident prevention and handling can be found in National Institute of Standards and Technology (NIST) Special Publication **Incident Prevention & Handling for Desktops and Laptops**".

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**What is a MAR?** A Malware Analysis Report (MAR) is intended to provide organizations with more detailed malware analysis acquired via manual reverse engineering. To request additional analysis, please contact CISA and provide information regarding the level of desired analysis.

**Can I edit this document?** This document is not to be edited in any way by recipients. All comments or questions related to this document should be directed to [soc@us-cert.gov](mailto:soc@us-cert.gov).

**Can I submit malware to CISA?** Malware samples can be submitted via three methods:


- Web: <https://malware.us-cert.gov>
- E-Mail: [submit@malware.us-cert.gov](mailto:submit@malware.us-cert.gov)
- FTP: <ftp://malware.us-cert.gov> (anonymous)

CISA encourages you to report any suspicious activity, including cybersecurity incidents, possible malicious code, software vulnerabilities, and phishing-related activity. For more information, visit the [www.us-cert.gov](https://www.us-cert.gov) found on CISA's homepage at [www.us-cert.gov](https://www.us-cert.gov).

## Revisions

October 31, 2019: Initial Version

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