

What Our Honeypot Sees Just One Day After The Spring4Shell Advisory

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Background

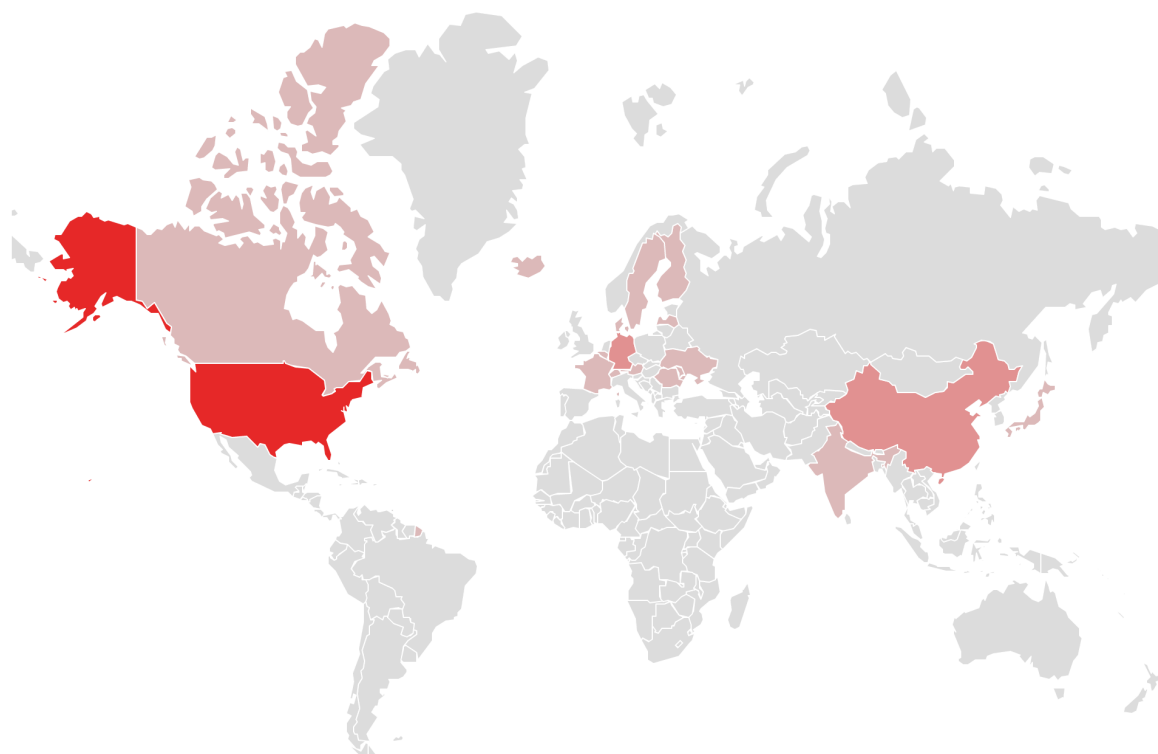
On March 31, 2022, Spring issued a security advisory[1] for the Spring4Shell vulnerability (CVE-2022-22965), this vulnerability has caused widespread concern in the security community.

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




```
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%202222222
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%A
```

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.

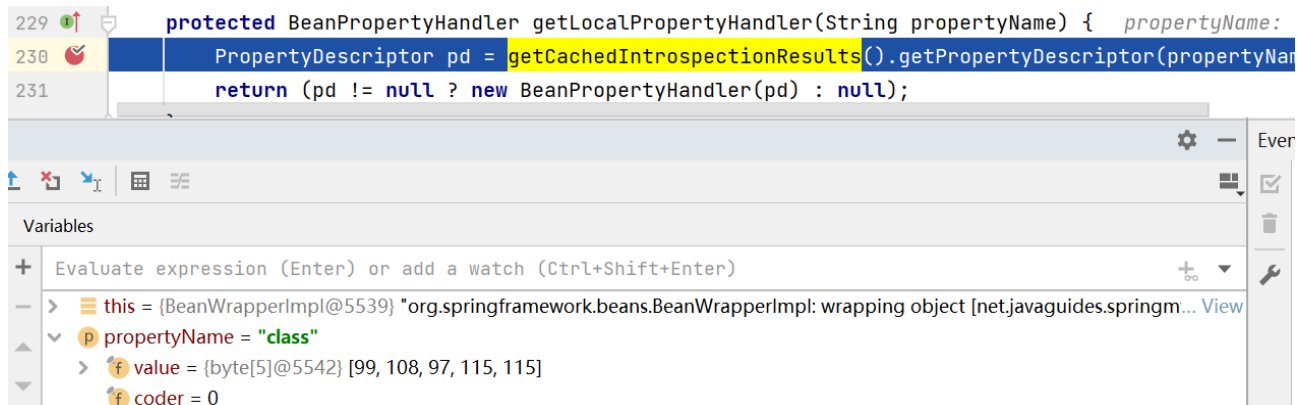
Vulnerability Patch

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

```
PropertyDescriptor[] pds = this.beanInfo.getPropertyDescriptors();
for (PropertyDescriptor pd : pds) {
    if (Class.class == beanClass &&
        ("classLoader".equals(pd.getName()) || "protectionDomain".equals(pd.getName())))
        // Ignore Class.getClassLoader() and getProtectionDomain() methods - nobody needs to t
        continue;
}
```

CVE-2022-22965 Vulnerability brief

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

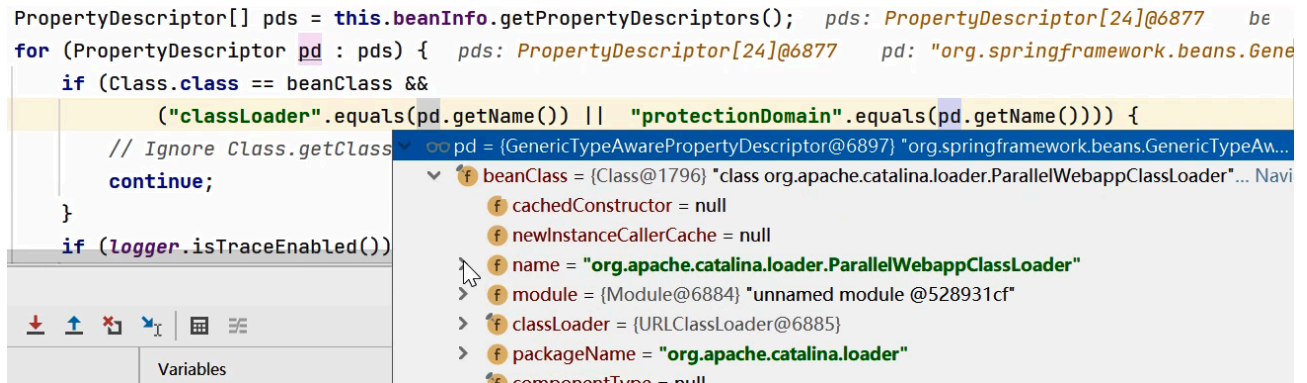


CVE-2022-22965 is a bypass of patch CVE-2010-1622, in JDK11+Tomcat8.5.77+spring-webmvc5.3.17 version, we noticed that class.module.classLoader.* can load ParallelWebappClassLoader to bypass the detection of

classLoader:

```
PropertyDescriptor[] pds = this.beanInfo.getPropertyDescriptors();
for (PropertyDescriptor pd : pds) {
    if (Class.class == beanClass &&
        ("classLoader".equals(pd.getName()) || "protectionDomain".equals(pd.getName()))) {
        // Ignore Class.getClassLoader() and getProtectionDomain() methods - nobody needs to bind to those
        continue;
    }
    if (Logger.isTraceEnabled())
        // ...
}

```



Exploit Payload that we saw

```
class.module.classLoader.resources.context.parent.pipeline.first.pattern=%25%7Bc2%7Di%20if(%22j%22.equals(requ
```

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();
288 289 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
290 + if (Class.class == beanClass && (!"name".equals(pd.getName()) && !pd.getName().endsWith("Name"))) {
291 + // Only allow all name variants of Class properties
292 + continue;
293 + }
294 + if (pd.getPropertyType() != null && (ClassLoader.class.isAssignableFrom(pd.getPropertyType())
295 + || ProtectionDomain.class.isAssignableFrom(pd.getPropertyType()))) {
296 + // 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
[0x06]: "enable\x00", size=7
[0x07]: "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\x13Keg\x13G\x1a\x12z*", size=57
[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]: "abcdefghijklmnopqrstuvwxy\x00", size=27
[0x27]: "%d.%d.%d.%d\x00", size=12
[0x28]: "POST /cdn-cgi/\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
[0x30]: "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]: "cronmpsl\x00", size=9
[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/watchdog0\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

filepath	count
webapps/ROOT/aaa69875.jsp	1
webapps/ROOT/log186.txt	1
webapps/ROOT/aaa36917.jsp	1
webapps/ROOT/member3war.jsp	1
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

filepath	count
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
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/pCJrI.jsp	1
webapps/ROOT/log162.txt	1
Webapps/ROOT/7875456457.jsp	1
webapps/ROOT/.jsp	1
webapps/ROOT/log200.txt	1
webapps/ROOT/8888888888.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

filepath	count
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 [twitter](#) 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-BACKBONE
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-LLC
23.128.248.11	United States	AS398355	DATAIDEAS-LLC
23.128.248.12	United States	AS398355	DATAIDEAS-LLC
23.128.248.13	United States	AS398355	DATAIDEAS-LLC
23.128.248.14	United States	AS398355	DATAIDEAS-LLC
23.128.248.15	United States	AS398355	DATAIDEAS-LLC
23.128.248.16	United States	AS398355	DATAIDEAS-LLC
23.128.248.17	United States	AS398355	DATAIDEAS-LLC
23.128.248.19	United States	AS398355	DATAIDEAS-LLC
23.128.248.20	United States	AS398355	DATAIDEAS-LLC
23.128.248.21	United States	AS398355	DATAIDEAS-LLC
23.128.248.22	United States	AS398355	DATAIDEAS-LLC
23.128.248.23	United States	AS398355	DATAIDEAS-LLC
23.128.248.24	United States	AS398355	DATAIDEAS-LLC
23.128.248.25	United States	AS398355	DATAIDEAS-LLC
23.128.248.27	United States	AS398355	DATAIDEAS-LLC
23.128.248.28	United States	AS398355	DATAIDEAS-LLC

23.128.248.29	United States	AS398355	DATAIDEAS-LLC
23.128.248.33	United States	AS398355	DATAIDEAS-LLC
23.128.248.34	United States	AS398355	DATAIDEAS-LLC
23.128.248.38	United States	AS398355	DATAIDEAS-LLC
23.128.248.39	United States	AS398355	DATAIDEAS-LLC
23.128.248.40	United States	AS398355	DATAIDEAS-LLC
23.128.248.41	United States	AS398355	DATAIDEAS-LLC
23.128.248.42	United States	AS398355	DATAIDEAS-LLC
23.128.248.43	United States	AS398355	DATAIDEAS-LLC
23.128.248.44	United States	AS398355	DATAIDEAS-LLC
23.128.248.46	United States	AS398355	DATAIDEAS-LLC
23.128.248.48	United States	AS398355	DATAIDEAS-LLC
23.128.248.50	United States	AS398355	DATAIDEAS-LLC
23.128.248.51	United States	AS398355	DATAIDEAS-LLC
23.128.248.53	United States	AS398355	DATAIDEAS-LLC
23.128.248.54	United States	AS398355	DATAIDEAS-LLC
23.128.248.55	United States	AS398355	DATAIDEAS-LLC
23.128.248.56	United States	AS398355	DATAIDEAS-LLC
23.128.248.57	United States	AS398355	DATAIDEAS-LLC
23.128.248.58	United States	AS398355	DATAIDEAS-LLC
23.128.248.59	United States	AS398355	DATAIDEAS-LLC
23.128.248.60	United States	AS398355	DATAIDEAS-LLC
23.128.248.61	United States	AS398355	DATAIDEAS-LLC
23.128.248.62	United States	AS398355	DATAIDEAS-LLC
23.128.248.63	United States	AS398355	DATAIDEAS-LLC
23.128.248.64	United States	AS398355	DATAIDEAS-LLC
23.128.248.65	United States	AS398355	DATAIDEAS-LLC
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
23.129.64.212	United States	AS396507	EMERALD-ONION
23.129.64.213	United States	AS396507	EMERALD-ONION
23.129.64.214	United States	AS396507	EMERALD-ONION
23.129.64.215	United States	AS396507	EMERALD-ONION
23.129.64.216	United States	AS396507	EMERALD-ONION
23.129.64.217	United States	AS396507	EMERALD-ONION
23.129.64.218	United States	AS396507	EMERALD-ONION
23.129.64.219	United States	AS396507	EMERALD-ONION
23.129.64.250	United States	AS396507	EMERALD-ONION
23.154.177.6	United States	AS399532	ULAYER-ASN
23.154.177.7	United States	AS399532	ULAYER-ASN
23.239.21.195	United States	AS63949	LINODE-AP
27.102.106.117	South Korea	AS45996	GNJ-AS-KR
37.187.18.212	France	AS16276	OVH
37.187.96.183	France	AS16276	OVH
43.128.201.239	Thailand	AS132203	TENCENT-NET-AP-CN
43.242.116.54	India	AS45916	GTPL-AS-AP
45.15.16.105	Sweden	AS42675	OBEHOSTING
45.32.251.86	Japan	AS20473	AS-CHOOPA
45.33.101.246	United States	AS63949	LINODE-AP
45.61.186.160	United States	AS53667	PONYPNET
45.78.48.51	Japan	AS25820	IT7NET
45.128.133.242	Belgium	AS206804	EstNOC-GLOBAL
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
45.153.160.136	The Netherlands	AS212906	moneroj-ca
45.154.255.138	Sweden	AS41281	KEFF
45.154.255.139	Sweden	AS41281	KEFF
45.154.255.147	Sweden	AS41281	KEFF
46.166.139.111	The Netherlands	AS43350	NFORCE
46.175.146.159	The Netherlands	AS50673	Serverius-as
46.232.251.191	Germany	AS197540	netcup-AS
51.15.76.60	The Netherlands	AS12876	AS12876
51.77.52.216	Poland	AS16276	OVH
58.82.211.226	China	AS137872	PEOPLESPHONE-HK
58.240.81.135	China	AS4837	CHINA169-Backbone
60.248.106.229	China	AS3462	HINET
62.102.148.68	Sweden	AS51815	TEKNIKBYRAN
62.102.148.69	Sweden	AS51815	TEKNIKBYRAN
64.113.32.29	United States	AS15154	SBBSNET
66.220.242.222	United States	AS17356	VERMONT-TELE
74.82.47.194	United States	AS6939	HURRICANE
81.17.18.59	Switzerland	AS51852	PLI-AS
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	IT7NET
94.140.114.210	Latvia	AS43513	NANO-AS
101.37.159.147	China	AS37963	CNNIC-ALIBABA-CN-NET-AP
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
103.140.186.68	Singapore	AS206804	EstNOC-GLOBAL
103.140.186.72	Singapore	AS206804	EstNOC-GLOBAL
103.140.186.73	Singapore	AS206804	EstNOC-GLOBAL
103.214.146.5	China	AS135330	ADCDATACOM-AS-AP
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	APPLIEDPRIVACY-AS
109.70.100.31	Austria	AS208323	APPLIEDPRIVACY-AS
109.70.100.82	Austria	AS208323	APPLIEDPRIVACY-AS
109.70.100.84	Austria	AS208323	APPLIEDPRIVACY-AS
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-V4shandong-AS-AP
112.169.175.24	South Korea	AS131477	SHHJ-AS
119.86.148.176	China	AS4134	CHINANET-BACKBONE
124.222.23.106	China	AS45090	CNNIC-TENCENT-NET-AP
128.31.0.13	United States	AS3	MIT-GATEWAYS
141.164.43.95	South Korea	AS20473	AS-CHOOA

142.4.206.84	Canada	AS16276	OVH
143.198.131.158	United States	AS14061	DIGITALOCEAN-ASN
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172.104.93.152	Japan	AS63949	LINODE-AP
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178.20.55.18	France	AS29075	IELO
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185.56.80.65	The Netherlands	AS43350	NFORCE
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185.100.86.74	Finland	AS200651	FlokiNET
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