## SANS ISC Free Software

RMLLSEC16 Rump Session



### SANS Internet Storm Center

- Created in 2001 to track the Li0n worm
- Today, sensors covers 500K IPs from 50 countries
- Data collection, analysis and warning system (like weather forecasts)
- Operated by volunteers ("handlers")

# Infocon



| Date        | Status | Reason                            |
|-------------|--------|-----------------------------------|
| Jan 23 2015 | Yellow | Adobe Flash Vulnerabilities       |
| Sep 26 2014 | Yellow | Bash Shellshock                   |
| Apr 08 2014 | Yellow | OpenSSL Heartbleed                |
| Mar 16 2012 | Yellow | MS12020 Windows RDP Vulnerability |
| Sep 28 2010 | Yellow | MS10070                           |
| Jul 19 2010 | Yellow | LNK Vulnerability in Windows      |
| Jul 13 2009 | Yellow | MS Office Web Components ActiveX  |
| Oct 23 2008 | Yellow | Microsoft RPC Patch MS08067       |

## Data Collection

- SSH honeypots
- HTTP honeypots
- Web: 404 pages, CRL, HTTP headers
- DShield

## DShield Sensor

- SW: Modified version of Cowrie
- HW: Raspberry (or any other entry-level hardware)
- https://github.com/DShield-ISC/dshield

## DShield Client

- Collects src\_ip, src\_port\_, dst\_ip, dst\_port, proto, count
- Available for many<sup>(1)</sup> clients
- Easy to write your own client<sup>(2)</sup> (I wrote mine for OSSEC)

<sup>(1)</sup> https://www.dshield.org/howto.html#clients

<sup>(2)</sup> https://www.dshield.org/specs.html

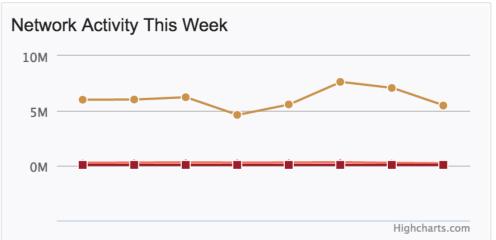
# Top-20 Block List

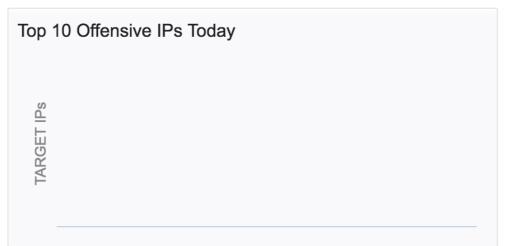
#### https://isc.sans.edu/block.txt

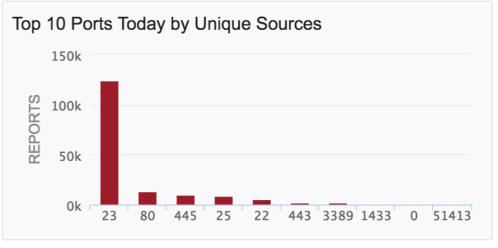
```
DShield.org Recommended Block List
    (c) 2007 DShield.org
    some rights reserved. Details http://creativecommons.org/licenses/by-nc-sa/2.5/
    use on your own risk. No warranties implied.
    primary URL: http://feeds.dshield.org/block.txt
     PGP Sign.: http://feeds.dshield.org/block.txt.asc
    comments: info@dshield.org
    updated: Mon Jul 4 20:38:25 2016 UTC
     This list summarizes the top 20 attacking class C (/24) subnets
    over the last three days. The number of 'attacks' indicates the
    number of targets reporting scans from this subnet.
     Columns (tab delimited):
     (1) start of netblock
     (2) end of netblock
     (3) subnet (/24 for class C)
     (4) number of targets scanned
     (5) name of Network
     (6) Country
     (7) contact email address
     If a range is assigned to multiple users, the first one is listed.
Start End
                Netblock
                                Attacks Name
                                                Country email
61.240.144.0
                61.240.144.255 24
                                        803
                                                China United Telecommunications Corporation
                                                                                                CN
                                                                                                        ip address@cnuninet.com
                                                CHINA169-BACKBONE CNCGROUP China169 Backbone
                                                                                                        abuse@cnc-noc.net
121.18.238.0
               121.18.238.255 24
                                        558
```

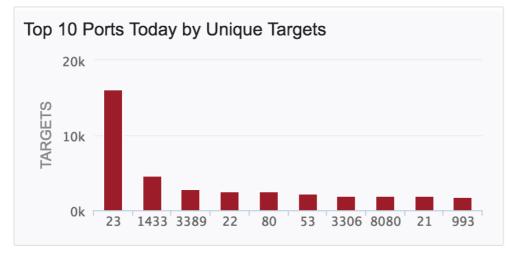
# Statistics

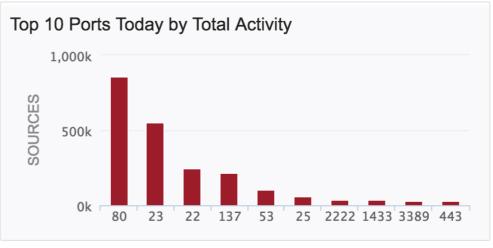










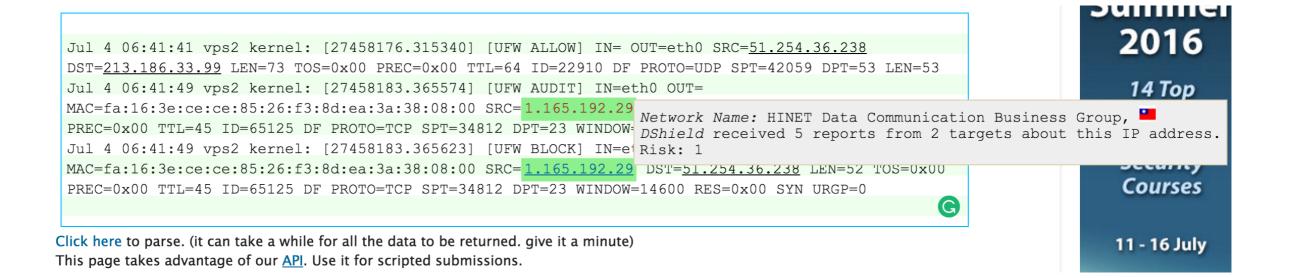


### API

#### https://isc.sans.edu/api/

```
# curl -L http://isc.sans.edu/api/ip/103.238.68.242
<?xml version="1.0" encoding="UTF-8"?>
<ip><number>103.238.68.242</number><count>4831</count><attacks>16</attacks><maxdate>2016-07-04<//maxdate><mindate>2015-10-30</pr>
/mindate><updated>2016-07-04 11:03:51</updated><comment></comment><maxrisk></maxrisk><asabusecontact>tech@vnnic.vn</asabusecontact><as>24088</as><asname><![CDATA[HANOITELECOM-AS-AP Hanoi Telecom Joint Stock Company - HCMC Branch,]]></asname><ascountry>VN</ascountry><assize>4349</assize><network>103.238.68.0/24</network>etwork><asabusecontact><as>2016-06-18</a></assize><asabusecontact><as>2016-07-04</assize><asabusecontact><as>2016-07-04</assize><asabusecontact><as>2016-07-04</assize><asabusecontact><as>2016-07-04</assize><asabusecontact><as>2016-07-04</assize><asabusecontact><as>2016-07-04</assize><asabusecontact><as>2016-07-04</assize><asabusecontact><as>2016-07-04</assize><asabusecontact><as>2016-07-04</assize><asabusecontact><as>2016-07-04</assize><asabusecontact><as>2016-07-04</assize><asabusecontact><as>2016-07-04</assize><asabusecontact><as>2016-07-04</assize><asabusecontact><as>2016-07-04</assize><asabusecontact><as>2016-07-04</assize><asabusecontact><as>2016-07-04</assize><asabusecontact><as>2016-07-04</assize><asabusecontact><as>2016-07-04</assize><asabusecontact><as>2016-07-04</assize><asabusecontact><as>2016-07-04</assize><asabusecontact><as>2016-07-04</assize><asabusecontact><as>2016-07-04</assize><asabusecontact</a></a></pr>
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// assize><a>2016-07-04</a></a>
// assize><asabusecontact</p>
```

# Color My Logs



# https://isc.sans.edu

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