

# Creacion de regla pfsense para acceder desde la wan:

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

WAN

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

Any

Source Address

/

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

WAN address

Destination Address

/

Destination Port Range

HTTPS (443)

From

Custom

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.

pfSense

System

Interfaces

Firewall

Services

VPN

Status

Diagnostics

Help

Status / Dashboard

System Information

Name

admin@192.168.143.1 (Local Database)

User

admin@192.168.143.1 (Local Database)

System

VMware Virtual Machine  
Netgate Device ID: 3d4a428f5a1614cd5f7

BIOS

Vendor: Phoenix Technologies LTD  
Version: 6.00  
Release Date: Thu Nov 12 2020

Version

2.7.2-RELEASE (amd64)  
built on Mon Mar 4 19:53:00 UTC 2024  
FreeBSD 14.0-CURRENT  
Unable to check for updates

CPU Type

AMD Ryzen 7 5700X 8-Core Processor  
AES-NI CPU Crypto: Yes (inactive)  
QAT Crypto: No

Hardware crypto

Inactive

Kernel PTI

Disabled

MDS Mitigation

Inactive

Uptime

00 Hour 12 Minutes 07 Seconds

Current date/time

Thu May 8 18:09:28 UTC 2025

DNS server(s)

127.0.0.1  
192.168.143.1

Last config change

Thu May 8 18:03:34 UTC 2025

State table size

0% (73/198000) [Show status](#)

MBUF Usage

0% (3556/1000000)

Load average

0.93, 0.78, 0.50

CPU usage

Netgate Services And Support

Retrieving support information

Interfaces

WAN

1000baseT <full-duplex>

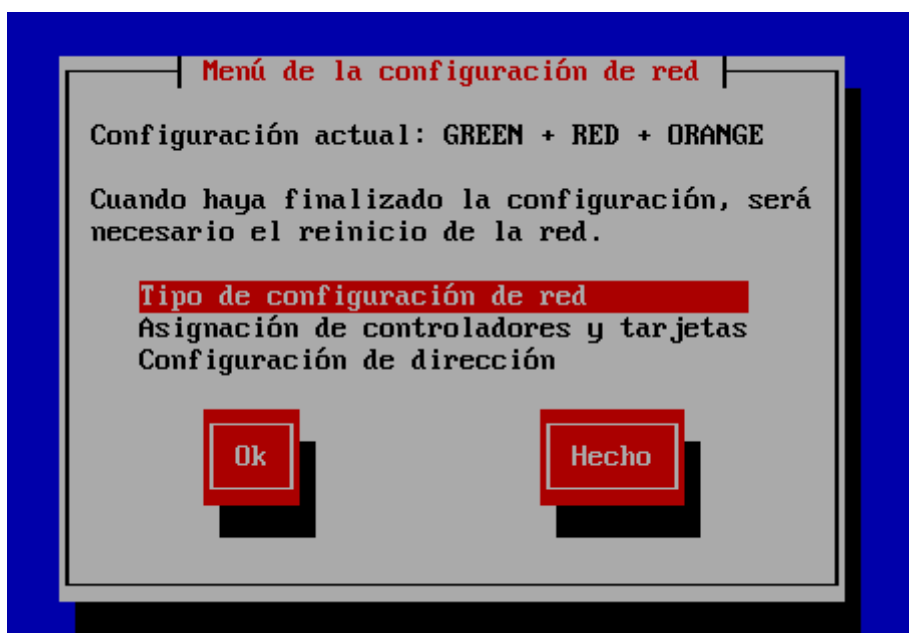
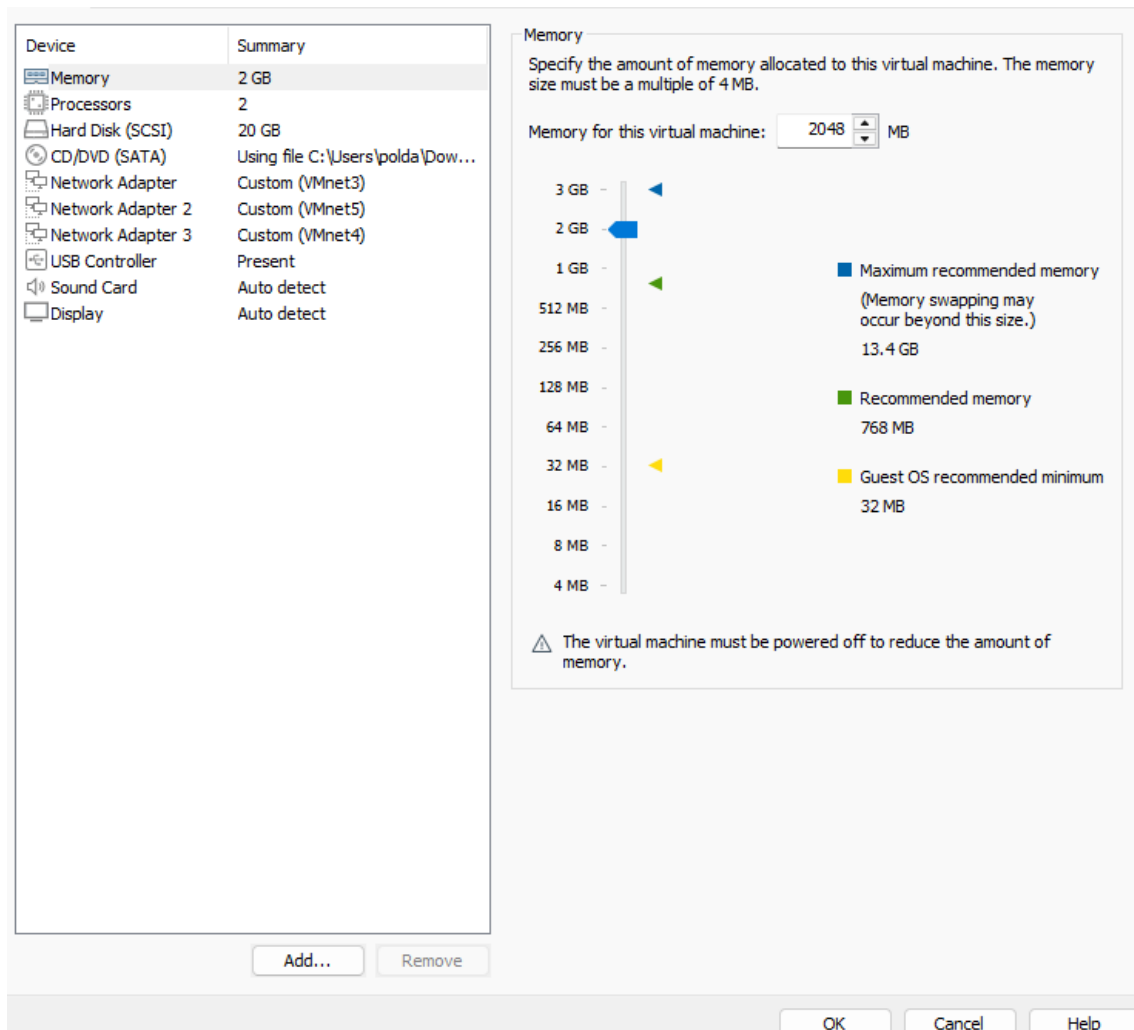
192.168.143.134

LAN

1000baseT <full-duplex>

192.168.1.1

Ahora vamos a configurar el ipfire:



**Interfaz - ORANGE**

Introduzca la información de la dirección IP para la interfaz ORANGE.

Dirección IP: 192.168.20.1  
Máscara de red: 255.255.255.0

Ok Cancelar

**Interfaz - GREEN**

Introduzca la información de la dirección IP para la interfaz GREEN.

Dirección IP: 192.168.10.1  
Máscara de red: 255.255.255.0

Ok Cancelar

**Interfaz - RED**

Introduzca la información de la dirección IP para la interfaz RED.

☐ Estático  
☒ DHCP  
☐ PPP DIALUP (PPPoE, modem, ATM ...)

Nombre del host DHCP: Dhipfire  
Forzar DHCP MTU:  
Rapid Commit: ☒

Dirección IP: 0.0.0.0  
Máscara de red: 0.0.0.0  
Gateway: 0.0.0.0

Ok Cancelar

```

Adding IPv4 address 192.168.20.1 to the orange0 interface... [ OK ]
Bringing up the red0 interface...
Starting dhcpd on the red0 interface... [ OK ]
    DHCP Assigned Settings for red0:
    IP Address:      192.168.1.101
    Hostname:        ipfire
    Subnet Mask:     255.255.255.0
    Default Gateway: 192.168.1.1
    DNS Server:      192.168.1.1
Adding static routes... [ OK ]
Adding static routes... [ OK ]
Mounting network file systems... [ OK ]
Starting the Cyrus SASL Server... [ OK ]
Setting time on boot...
Error resolving 0.ipfire.pool.ntp.org: Name or service not known (-2)
Error resolving 1.ipfire.pool.ntp.org: Name or service not known (-2) [ OK ]
Starting ntpd... [ OK ]
Starting DHCP Server... [ OK ]
Starting Unbound DHCP Leases Bridge... [ OK ]
Generating SSH key (ecdsa)... [ OK ]
Generating SSH key (ed25519)... [ OK ]
Generating HTTPS ECDSA server key... [ OK ]
Signing ECDSA certificate... [ OK ]
Starting Apache daemon... [ OK ]
Starting fcron... [ OK ]

IPFire v2.29 - www.ipfire.org
=====
ipfire.localdomain running on Linux 6.12.13-ipfire x86_64
ipfire login:

```

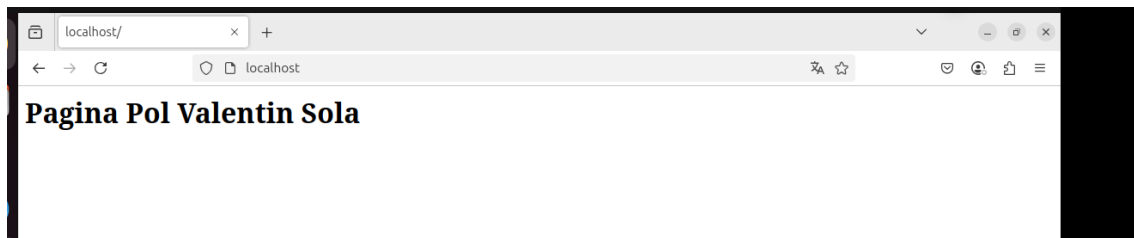
Servidor web – Orange:

```

ubuntu@ubuntu-VMware-Virtual-Platform:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:0c:29:b9:08:02 brd ff:ff:ff:ff:ff:ff
    altname enp2s1
    inet 192.168.20.2/24 brd 192.168.20.255 scope global noprefixroute ens33
        valid_lft forever preferred_lft forever
    inet6 fe80::3c50:9edc:9bcc:758d/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
ubuntu@ubuntu-VMware-Virtual-Platform:~$ ping 192.168.20.1
PING 192.168.20.1 (192.168.20.1) 56(84) bytes of data.
64 bytes from 192.168.20.1: icmp_seq=1 ttl=64 time=0.422 ms
^C
--- 192.168.20.1 ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 0.422/0.422/0.422/0.000 ms

```

Pagina configurada amb apache:



Ubuntu iptables:

```
ubuntu@ubuntu-VMware-Virtual-Platform:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:0c:29:b0:f2:cc brd ff:ff:ff:ff:ff:ff
    altname enp2s1
    inet 192.168.10.2/24 brd 192.168.10.255 scope global noprefixroute ens33
        valid_lft forever preferred_lft forever
    inet6 fe80::3c50:9edc:9bcc:758d/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
3: ens37: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:0c:29:b0:f2:d6 brd ff:ff:ff:ff:ff:ff
    altname enp2s5
    inet 10.0.0.1/24 brd 10.0.0.255 scope global noprefixroute ens37
        valid_lft forever preferred_lft forever
    inet6 fe80::5639:4523:b744:b2ac/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
ubuntu@ubuntu-VMware-Virtual-Platform:~$
```

```
GNU nano 7.2 /etc/sysctl.conf *
#net.ipv4.conf.default.rp_filter=1
#net.ipv4.conf.all.rp_filter=1

# Uncomment the next line to enable TCP/IP SYN cookies
# See http://lwn.net/Articles/277146/
# Note: This may impact IPv6 TCP sessions too
#net.ipv4.tcp_syncookies=1

# Uncomment the next line to enable packet forwarding for IPv4
net.ipv4.ip_forward=1
```

```
ubuntu@ubuntu-VMware-Virtual-Platform:~$ sudo sysctl -p
net.ipv4.ip_forward = 1
```

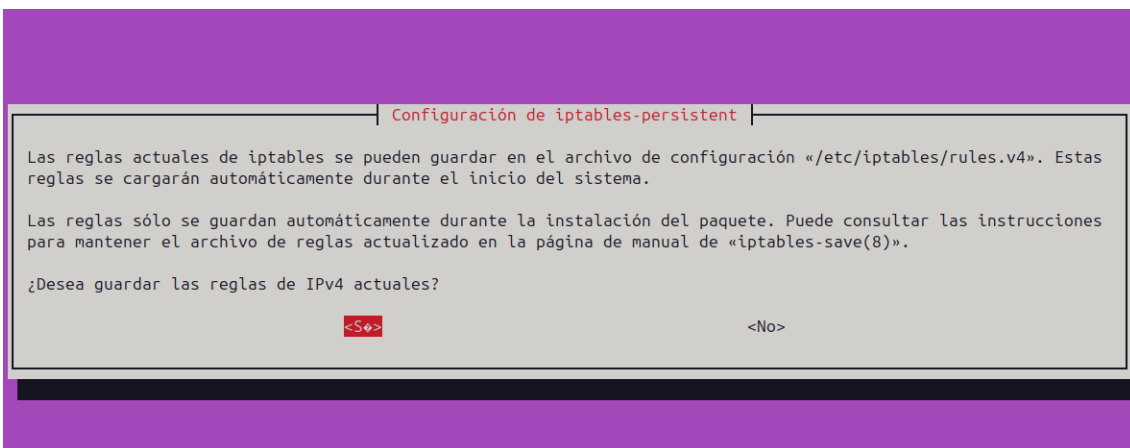
Iptables:

```
ubuntu@ubuntu-VMware-Virtual-Platform:~$ sudo iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE
ubuntu@ubuntu-VMware-Virtual-Platform:~$
```

```
ubuntu@ubuntu-VMware-Virtual-Platform:~$ sudo iptables -A FORWARD -m conntrack --ctstate RELATED,ESTABLISHED -j ACCEPT
```

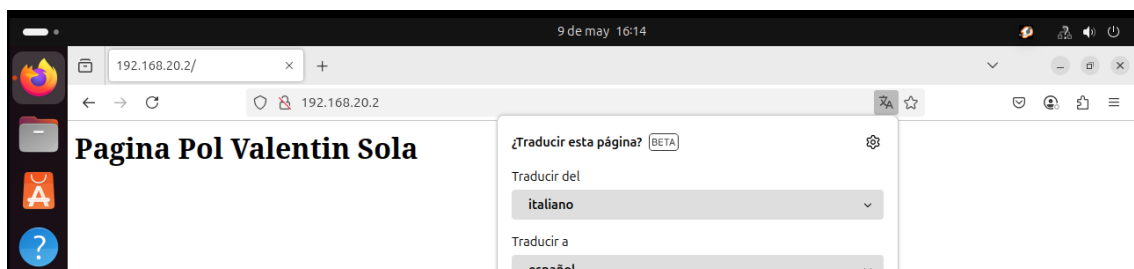
```
ubuntu@ubuntu-VMware-Virtual-Platform:~$ sudo iptables -A FORWARD -i eth1 -o eth0 -j ACCEPT
```

```
ubuntu@ubuntu-VMware-Virtual-Platform:~$ sudo apt install iptables-persistent netfilter-persistent
Leyendo lista de paquetes... Hecho
```

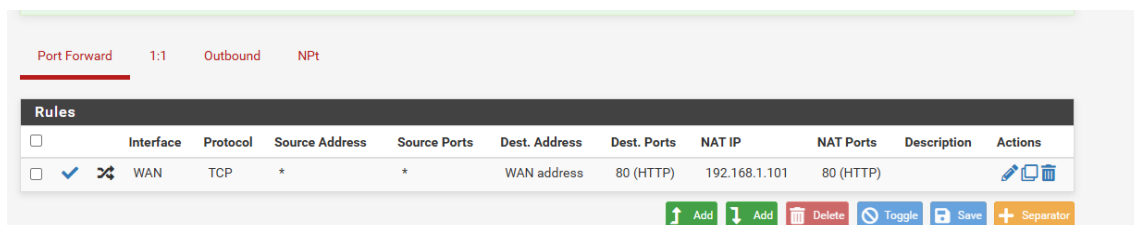


Comprobamos que podemos acceder a la web:

```
ubuntu@ubuntu-VMware-Virtual-Platform:~$ ping 192.168.20.2
PING 192.168.20.2 (192.168.20.2) 56(84) bytes of data.
64 bytes from 192.168.20.2: icmp_seq=1 ttl=63 time=1.64 ms
64 bytes from 192.168.20.2: icmp_seq=2 ttl=63 time=0.951 ms
^C
--- 192.168.20.2 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1002ms
rtt min/avg/max/mdev = 0.951/1.295/1.640/0.344 ms
```



Creacion de reglas para redirigir las peticiones de WAN al IPFIRE:



ipfire.localdomain - Página x +

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# IPFire\_ - ipfire.localdomain

Sistema Estado Red Servicios Cortafuegos IPFire Registros Tráfico: Ent. 15.15 kbit/s Sal. 15.15 kbit/s

## Página principal ⓘ

Red	Dirección IP:	Estado
INTERNET	192.168.1.101	Conectado - (51m 15s)
Nombre de host: ipfire.localdomain		

Red	Dirección IP:	Estado
LAN	192.168.10.1/24	Proxy Apagado
DMZ	192.168.20.1/24	Online

**Warning**  
[Por favor, habilite el servicio Fireinfo.](#)

Y ahora creamos la regla para redirigir las peticiones de la ip x.x.1.101 a la x.x.20.2 (orange)

Sistema Estado Red Servicios Cortafuegos IPFire Registros Tráfico: Ent. 15.77 kbit/s Sal. 15.77 kbit/s

## Reglas del Cortafuegos ⓘ

### Reglas del Cortafuegos

#	Protocolo:	Origen	Registro	Destino	Acción
1	TCP	RED	<input type="checkbox"/>	192.168.20.2: 80	<input checked="" type="checkbox"/>
2	TCP	Cualquiera	<input type="checkbox"/>	RED: SMTP	<input checked="" type="checkbox"/>

*Block port 25 (TCP) for outgoing connections to the internet*

Green >	Internet (Permitido)	ORANGE (Permitido)
ORANGE >	Internet (Permitido)	Green (Bloqueado)

Política: Permitido