

# PFSENSE MULTIWAN HOWTO

## ASSIGN INTERFACES

Interfaces -> assign

| Interface | Network port             |
|-----------|--------------------------|
| LAN       | sis0 (00:00:24:c3:df:1c) |
| WAN       | sis1 (00:00:24:c3:df:1d) |
| Jazztel   | sis2 (00:00:24:c3:7d:0c) |
| DMZ       | sis3 (00:00:24:c3:7d:0d) |

## SETUP INTERFACES

Wan Configured with dhcp

### Interfaces: WAN

**General configuration**

Type: DHCP

MAC address:  [Copy my MAC address](#)

This field can be used to modify ("spoof") the MAC address of the WAN interface (may be required with some cable connections) Enter a MAC address in the following format: xx:xx:xx:xx:xx:xx or leave blank

Opt1 (Our Wan2 interface) Configured as static.

### Interfaces: Optional 1 (Jazztel)

**Optional Interface Configuration**

Enable Optional 1 interface

Description: jazztel  
Enter a description (name) for the interface here.

**IP configuration**

Bridge with: none

IP address: Wan2\_ip / 30

Gateway: Wan2\_gw  
If you have multiple WAN connections, enter the next hop gateway (router) IP address here. Otherwise, leave this option blank.

## NAT

Now we need to configure NAT and enable advanced outbound NAT  
Nat -> Outbound -> Mark "Enable advanced outbound NAT"  
Make sure you delete the default entries, we will make new entries.



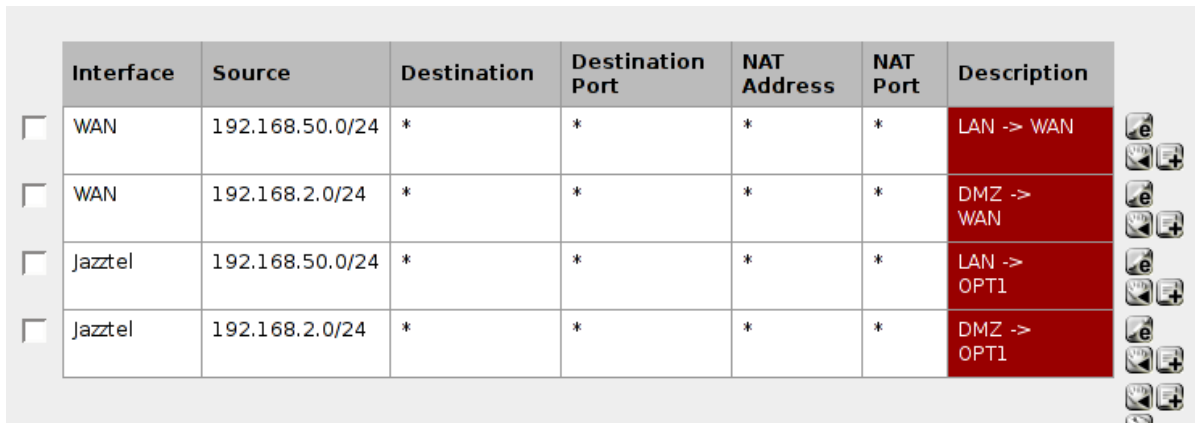
Port Forward 1:1 Outbound

Enable IPSec passthru

Enable advanced outbound NAT

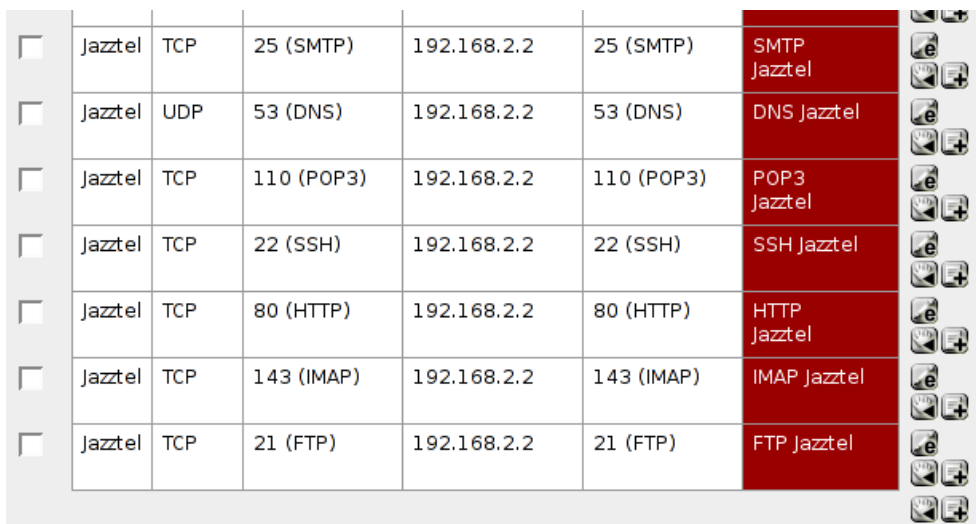
Save

As we probably want to route traffic from lan to wan1 and to wan2, and from dmz to wan1 or wan2 we will need to do an entry for each case.



| Interface                        | Source          | Destination | Destination Port | NAT Address | NAT Port | Description |
|----------------------------------|-----------------|-------------|------------------|-------------|----------|-------------|
| <input type="checkbox"/> WAN     | 192.168.50.0/24 | *           | *                | *           | *        | LAN -> WAN  |
| <input type="checkbox"/> WAN     | 192.168.2.0/24  | *           | *                | *           | *        | DMZ -> WAN  |
| <input type="checkbox"/> Jazztel | 192.168.50.0/24 | *           | *                | *           | *        | LAN -> OPT1 |
| <input type="checkbox"/> Jazztel | 192.168.2.0/24  | *           | *                | *           | *        | DMZ -> OPT1 |

Now it's time to config port forward if we have a server on dmz. Make as many rules as you need for your servers/services. Make sure to enable the auto add firewall rule option for each nat rule you enter.



|                          |         |     |            |             |            |              |
|--------------------------|---------|-----|------------|-------------|------------|--------------|
| <input type="checkbox"/> | Jazztel | TCP | 25 (SMTP)  | 192.168.2.2 | 25 (SMTP)  | SMTP Jazztel |
| <input type="checkbox"/> | Jazztel | UDP | 53 (DNS)   | 192.168.2.2 | 53 (DNS)   | DNS Jazztel  |
| <input type="checkbox"/> | Jazztel | TCP | 110 (POP3) | 192.168.2.2 | 110 (POP3) | POP3 Jazztel |
| <input type="checkbox"/> | Jazztel | TCP | 22 (SSH)   | 192.168.2.2 | 22 (SSH)   | SSH Jazztel  |
| <input type="checkbox"/> | Jazztel | TCP | 80 (HTTP)  | 192.168.2.2 | 80 (HTTP)  | HTTP Jazztel |
| <input type="checkbox"/> | Jazztel | TCP | 143 (IMAP) | 192.168.2.2 | 143 (IMAP) | IMAP Jazztel |
| <input type="checkbox"/> | Jazztel | TCP | 21 (FTP)   | 192.168.2.2 | 21 (FTP)   | FTP Jazztel  |

## FIREWALL RULES

And now the magic part. First you need to know how you want your traffic routed. I'll put some examples.

A) Lan traffic goes across wan1 interface and DMZ traffic across wan2

Go to Firewall -> rules -> LAN rules

We add a new rule:

Action: pass

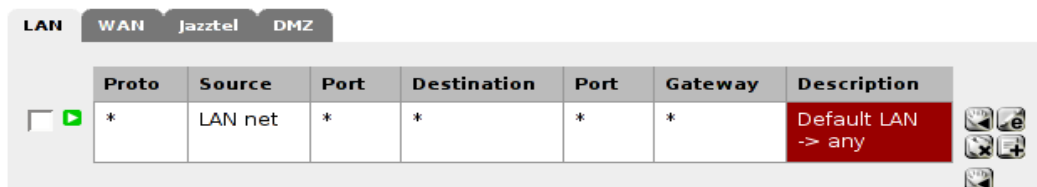
Interface: lan

protocol: any

source: lan subnet

destination: any

gateway: default



| Proto | Source  | Port | Destination | Port | Gateway | Description           |
|-------|---------|------|-------------|------|---------|-----------------------|
| *     | LAN net | *    | *           | *    | *       | Default LAN<br>-> any |

Rule for the dmz. Go to firewall – Rules – Dmz Rules

Add new rule:

Action: pass

Interface: dmz

protocol: any

source: dmz subnet

destination: any

gateway: Select the wan2\_gw



| Proto | Source  | Port | Destination | Port | Gateway | Description           |
|-------|---------|------|-------------|------|---------|-----------------------|
| *     | DMZ net | *    | *           | *    | Wan2_gw | Salida por<br>Jazztel |

B) Lan default traffic across wan1 but port 22 across wan2. Dmz as case A

Firewall -> rules -> Lan rules.

First we will add the port 22 rule.

Action: pass

Interface: Lan

Protocol: tcp

Source: Lan subnet

Destination: any

Destination port: 22

gateway: Select the wan2\_gw

|         |                                       |
|---------|---------------------------------------|
| Gateway | Wan2_gw ▾                             |
|         | Leave as 'default gateway to utilize' |

Then we add the general rule for the other traffic.

Action: pass  
Interface: lan  
protocol: any  
source: lan subnet  
destination: any  
gateway: default

Note: Just remember one thing, the more specific rules need to be on top and the general rule needs to stay at the end. That's because rules are applied on first match.