Q.no-1

Browser window 1

pfSense.home.arpa - Interfaces × | VLAN Configuration | pfSense × | +

G | Press tab then enter to ask AI Mode | AI Mode

Interfaces / Interface Assignments

Interface has been added. ×

| Interface Assignments | Interface Groups | Wireless | VLANs | QinQs | PPPs | GREs | GIFs | Bridges | LAGGs |

Interface	Network port	
WAN	le0 (08:00:27:4f:0e:16)	
LAN	le1 (08:00:27:33:7c:6b)	🗑 Delete
OPT1	VLAN 3 on le0 - wan (wan-uplink)	🗑 Delete
OPT2	VLAN 2 on le1 - lan (LAN-CORE)	🗑 Delete
OPT3	VLAN 1 on le1 - lan (LAB-nertwork)	🗑 Delete

💾 Save

Browser window 2

pfSense.home.arpa - Interfaces × | VLAN Configuration | pfSense × | +

⚠ Not secure | 192.168.56.105/interfaces.php?if=opt1

IPv4 Configuration Type	Static IPv4
IPv6 Configuration Type	None

MAC Address | xx:xx:xx:xx:xx:xx
The MAC address of a VLAN interface must be set on its parent interface

MTU |
If this field is blank, the adapter's default MTU will be used. This is typically 1500 bytes but can vary in some circumstances.

MSS |
If a value is entered in this field, then MSS clamping for TCP connections to the value entered above minus 40 for IPv4 (TCP/IPv4 header size) and minus 60 for IPv6 (TCP/IPv6 header size) will be in effect.

Speed and Duplex | Default (no preference, typically autoselect)
Explicitly set speed and duplex mode for this interface.
WARNING: MUST be set to autoselect (automatically negotiate speed) unless the port this interface connects to has its speed and duplex forced.

Static IPv4 Configuration

IPv4 Address | 192.168.10.2 | / 24

IPv4 Upstream gateway | None | + Add a new gateway
If this interface is an Internet connection, select an existing Gateway from the list or add a new one using the "Add" button.
On local area network interfaces the upstream gateway should be "none".
Selecting an upstream gateway causes the firewall to treat this interface as a WAN type interface.
Gateways can be managed by clicking here.

Browser 1 — Interface Configuration

Description	OPT1
	Enter a description (name) for the interface here.
IPv4 Configuration Type	Static IPv4
IPv6 Configuration Type	None
MAC Address	xx:xx:xx:xx:xx:xx
	The MAC address of a VLAN interface must be set on its parent interface
MTU	400
	If this field is blank, the adapter's default MTU will be used. This is typically 1500 bytes but can vary in some circumstances.
MSS	
	If a value is entered in this field, then MSS clamping for TCP connections to the value entered above minus 40 for IPv4 (TCP/IPv4 header size) and minus 60 for IPv6 (TCP/IPv6 header size) will be in effect.
Speed and Duplex	Default (no preference, typically autoselect)
	Explicitly set speed and duplex mode for this interface.
	WARNING: MUST be set to autoselect (automatically negotiate speed) unless the port this interface connects to has its speed and duplex forced.

Static IPv4 Configuration

IPv4 Address	192.168.10.2 / 24
IPv4 Upstream gateway	None + Add a new gateway

Browser 2 — Status Dashboard

Hardware crypto	Inactive
Kernel PTI	Disabled
MDS Mitigation	Inactive
Uptime	00 Hour 01 Minute 34 Seconds
Current date/time	Sat Dec 13 4:45:32 UTC 2025
DNS server(s)	• 127.0.0.1
	• ::1
	• 10.23.97.160
Last config change	Sat Dec 13 4:41:45 UTC 2025
State table size	0% (151/199000) Show states
MBUF Usage	0% (1016/1000000)
Load average	1.29, 0.43, 0.16
CPU usage	55%
Memory usage	16% of 1992 MiB
SWAP usage	0% of 1024 MiB

If you decide to purchase a Netgate Global TAC Support subscription, you **MUST** have your **Netgate Device ID (NDI)** from your firewall in order to validate support for this unit. Write down your NDI and store it in a safe place. You can purchase TAC supports here.

Interfaces

WAN	↑	autoselect	10.0.2.15
			fd17:625c:f037:2:a00:27ff:fe4f:e16
LAN	↑	autoselect	192.168.56.105
OPT1	↑	autoselect	192.168.10.2

Disks

Mount	Used	Size	Usage
/	808M	13G	

Trafic checking with MUT 1450

```
64 bytes from 8.8.8.8: icmp_seq=388 ttl=255 time=6415.646 ms
64 bytes from 8.8.8.8: icmp_seq=387 ttl=255 time=6415.808 ms
64 bytes from 8.8.8.8: icmp_seq=386 ttl=255 time=6415.996 ms
64 bytes from 8.8.8.8: icmp_seq=385 ttl=255 time=6416.131 ms
64 bytes from 8.8.8.8: icmp_seq=391 ttl=255 time=6414.592 ms
64 bytes from 8.8.8.8: icmp_seq=390 ttl=255 time=6415.095 ms
64 bytes from 8.8.8.8: icmp_seq=389 ttl=255 time=6415.559 ms
64 bytes from 8.8.8.8: icmp_seq=392 ttl=255 time=6414.688 ms
64 bytes from 8.8.8.8: icmp_seq=393 ttl=255 time=6519.334 ms
64 bytes from 8.8.8.8: icmp_seq=397 ttl=255 time=6521.701 ms
64 bytes from 8.8.8.8: icmp_seq=396 ttl=255 time=6522.283 ms
64 bytes from 8.8.8.8: icmp_seq=395 ttl=255 time=6522.432 ms
64 bytes from 8.8.8.8: icmp_seq=394 ttl=255 time=6522.564 ms
64 bytes from 8.8.8.8: icmp_seq=398 ttl=255 time=6521.881 ms
64 bytes from 8.8.8.8: icmp_seq=400 ttl=255 time=6521.909 ms
64 bytes from 8.8.8.8: icmp_seq=399 ttl=255 time=6522.082 ms
64 bytes from 8.8.8.8: icmp_seq=401 ttl=255 time=6522.018 ms
64 bytes from 8.8.8.8: icmp_seq=403 ttl=255 time=6521.950 ms
64 bytes from 8.8.8.8: icmp_seq=402 ttl=255 time=6522.119 ms
^C64 bytes from 8.8.8.8: icmp_seq=404 ttl=255 time=6649.145 ms

--- 8.8.8.8 ping statistics ---
1456 packets transmitted, 405 packets received, 72.2% packet loss
round-trip min/avg/max/stddev = 205.894/3684.569/6649.145/1845.070 ms
[2.8.1-RELEASE][admin@pfSense.home.arpa]/root:
```

QNO.2

△ Not secure   192.168.56.105/firewall_rules_edit.php?if=lan&after=-1

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 | Address or Alias | 192.168.10.50 | / | |

⚙ 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 | Any | Destination Address | / | |

| **Destination Port Range** | (other) | | (other) | | |
| | From | Custom | To | Custom |

△ Not secure   192.168.56.105/diag_ping.php

Ping

Hostname	8.8.8.8
IP Protocol	IPv4
Source address	LAN
	Select source address for the ping.
Maximum number of pings	3
	Select the maximum number of pings.
Seconds between pings	1
	Select the number of seconds to wait between pings.

📶 Ping

Results

```
PING 8.8.8.8 (8.8.8.8) from 192.168.56.105: 56 data bytes
64 bytes from 8.8.8.8: icmp_seq=0 ttl=255 time=54.153 ms
64 bytes from 8.8.8.8: icmp_seq=1 ttl=255 time=46.645 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=255 time=57.445 ms

--- 8.8.8.8 ping statistics ---
3 packets transmitted, 3 packets received, 0.0% packet loss
round-trip min/avg/max/stddev = 46.645/52.748/57.445/4.520 ms
```