

# LAB – 1

**CPU Type** AMD Ryzen 5 5600H with Radeon Graphics  
2 CPUs: 1 package(s) x 2 core(s)  
AES-NI CPU Crypto: Yes (inactive)  
QAT Crypto: No

**Hardware crypto** Inactive

**Kernel PTI** Disabled

**MDS Mitigation** Inactive

**Uptime** 00 Hour 01 Minute 05 Seconds

**Current date/time** Sat Dec 13 4:16:53 UTC 2025

**DNS server(s)**

- 127.0.0.1
- ::1
- 10.180.94.58

**Last config change** Sat Dec 13 4:11:42 UTC 2025

**State table size** 0% (215/199000) [Show states](#)

**MBUF Usage** 0% (3810/1000000)

**Load average** 1.79, 0.46, 0.17

**CPU usage** 100%

**Memory usage** 22% of 1992 MiB

**SWAP usage** 0% of 1024 MiB

**Disks**

Mount	Used	Size	Usage
/	898M	12G	7% of 12G (zfs)

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**

Interface	Status	IP Address
WANLINK	up	10.0.2.15 fd17:625cf037:2:a00:27ff:fe61:a368
LANCORE	up	192.168.10.1

**pfSense** COMMUNITY EDITION    System ▾    Interfaces ▾    Firewall ▾    Services ▾    VPN ▾    Status ▾    Diagnostics ▾    Help ▾

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**Status / Interfaces**

**WANLINK Interface (wan, em0)**

Status	disabled
DHCP	down <a href="#">Renew WANLINK</a>
MAC Address	08:00:27:61:a3:68

**LANCORE Interface (lan, em1)**

Status	up ↑
MAC Address	08:00:27:75:c3:35
IPv4 Address	192.168.10.1
Subnet mask IPv4	255.255.255.0
IPv6 Link Local	fe80::a00:27ff:fe75:c35%em1
MTU	1500
Media	1000baseT <full-duplex>
In/out packets	814/1382 (104 KiB/1.51 MiB)
In/out packets (pass)	814/1382 (104 KiB/1.51 MiB)
In/out packets (block)	1/22 (576 B/976 B)
In/out errors	0/0
Collisions	0

Using dial-on-demand will bring the connection up again if any packet triggers it. To substantiate this point: disconnecting manually will not prevent dial-on-demand from making connections to the outside! Don't use dial-on-demand if the line is to be kept disconnected.

## Status / Interfaces

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### WANLINK Interface (wan, em0)

Status	up
DHCP	up
MAC Address	08:00:27:61:a3:68
IPv4 Address	10.0.2.15
Subnet mask IPv4	255.255.255.0
Gateway IPv4	10.0.2.2
IPv6 Link Local	fe80::a00:27ff:fe61:a368%em0
DNS servers	10.180.94.58
MTU	1200
Media	1000baseT <full-duplex>
In/out packets	9369/9614 (614 KIB/410 KIB)
In/out packets (pass)	9369/9614 (614 KIB/410 KIB)
In/out packets (block)	0/1 (0 B/40 B)
In/out errors	0/0
Collisions	0

### LANCORE Interface (lan, em1)

Status	up
MAC Address	08:00:27:75:2c:35
IPv4 Address	192.168.10.1
Subnet mask IPv4	255.255.255.0
IPv6 Link Local	fe80::a00:27ff:fe75:2c35%em1
MTU	1500
Media	1000baseT <full-duplex>
In/out packets	732/1262 (87 KIB/1.40 MiB)
In/out packets (pass)	732/1262 (87 KIB/1.40 MiB)
In/out packets (block)	1/22 (576 B/976 B)
In/out errors	0/0
Collisions	0

Using dial-on-demand will bring the connection up again if any packet triggers it. To substantiate this point: disconnecting manually will not prevent dial-on-demand from making connections to the outside! Don't use dial-on-demand if the line is to be kept disconnected.

## Status / Interfaces

≡ ⌂ ?

### WANLINK Interface (wan, em0)

Status	up
DHCP	up
MAC Address	08:00:27:61:a3:68
IPv4 Address	10.0.2.15
Subnet mask IPv4	255.255.255.0
Gateway IPv4	10.0.2.2
IPv6 Link Local	fe80::a00:27ff:fe61:a368%em0
IPv6 Address	fd17:625cf037:2:a00:27ff:fe61:a368
Subnet mask IPv6	64
Gateway IPv6	fe80::2%em0
DNS servers	10.180.94.58
MTU	1500
Media	1000baseT <full-duplex>
In/out packets	9078/9303 (581 KIB/397 KIB)
In/out packets (pass)	9078/9303 (581 KIB/397 KIB)
In/out packets (block)	0/1 (0 B/40 B)
In/out errors	0/0
Collisions	0

### LANCORE Interface (lan, em1)

Status	up
MAC Address	08:00:27:75:2c:35
IPv4 Address	192.168.10.1
Subnet mask IPv4	255.255.255.0
IPv6 Link Local	fe80::a00:27ff:fe75:2c35%em1
MTU	1500
Media	1000baseT <full-duplex>
In/out packets	686/1181 (80 KIB/1.32 MiB)
In/out packets (pass)	686/1181 (80 KIB/1.32 MiB)
In/out packets (block)	1/22 (576 B/976 B)
In/out errors	0/0
Collisions	0

<b>Enable</b>	<input checked="" type="checkbox"/> Enable interface
<b>Description</b>	LAN Enter a description (name) for the interface here.
<b>IPv4 Configuration Type</b>	Static IPv4
<b>IPv6 Configuration Type</b>	DHCP6
<b>MAC Address</b>	xxxxxxxxxxxxxx This field can be used to modify ("spoof") the MAC address of this interface. Enter a MAC address in the following format: xxxxxxxxxxxx or leave blank.
<b>MTU</b>	If this field is blank, the adapter's default MTU will be used. This is typically 1500 bytes but can vary in some circumstances.
<b>MSS</b>	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.
<b>Speed and Duplex</b>	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.
<b>Static IPv4 Configuration</b>	
<b>IPv4 Address</b>	192.168.10.1
<b>IPv4 Upstream gateway</b>	None <a href="#">+ Add a new gateway</a>
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 <b>WAN type interface</b> . Gateways can be managed by <a href="#">clicking here</a> .	

**pfSense** COMMUNITY EDITION    System ▾    Interfaces ▾    Firewall ▾    Services ▾    VPN ▾    Status ▾    Diagnostics ▾    Help ▾

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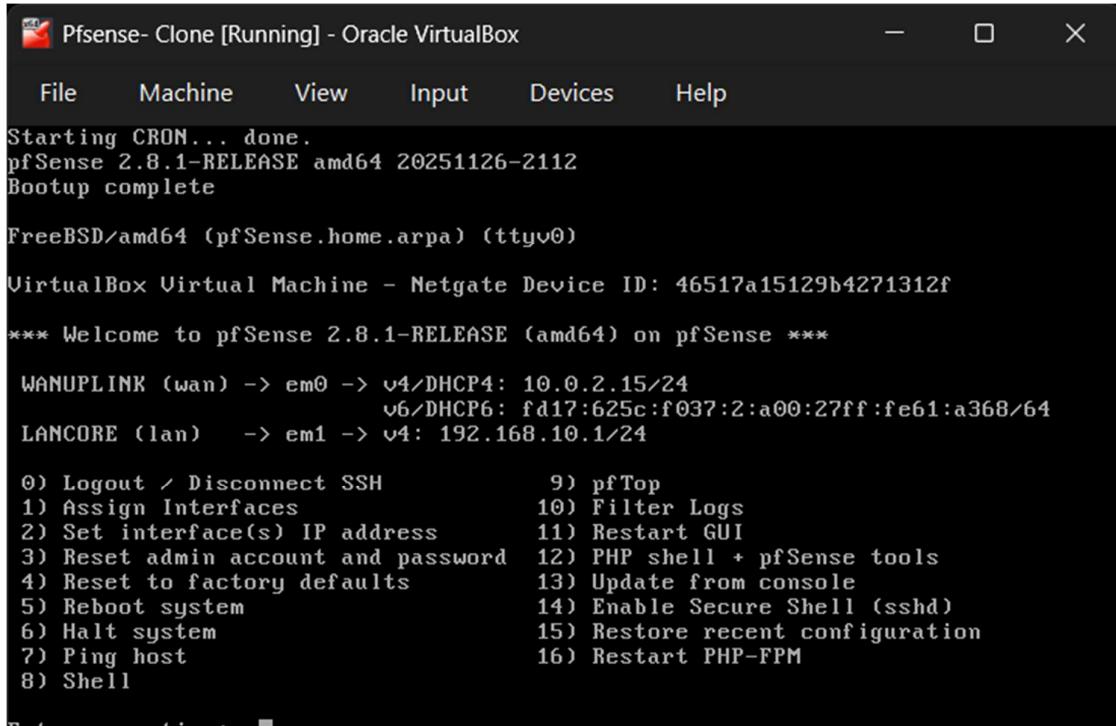
**Interfaces / Interface Assignments** [Edit](#) [?](#)

[Interface Assignments](#) [Interface Groups](#) [Wireless](#) [VLANs](#) [QinQs](#) [PPPs](#) [GREs](#) [GiFs](#) [Bridges](#) [LAGGs](#)

Interface	Network port
WAN	em0 (08:00:27:61:a3:68)
LAN	em1 (08:00:27:75:2c:35) <a href="#">Delete</a>

[Save](#)

Interfaces that are configured as members of a lagg(4) interface will not be shown.  
Wireless interfaces must be created on the Wireless tab before they can be assigned.



Pfsense- Clone [Running] - Oracle VirtualBox

File Machine View Input Devices Help

```
Starting CRON... done.
pfSense 2.8.1-RELEASE amd64 20251126-2112
Bootup complete

FreeBSD/amd64 (pfSense.home.arpa) (ttyv0)

VirtualBox Virtual Machine - Netgate Device ID: 46517a15129b4271312f

*** Welcome to pfSense 2.8.1-RELEASE (amd64) on pfSense ***

WANLINK (wan) -> em0 -> v4/DHCP4: 10.0.2.15/24
                           v6/DHCP6: fd17:625c:f037:2:a00:27ff:fe61:a368/64
LANCORE (lan)   -> em1 -> v4: 192.168.10.1/24

0) Logout / Disconnect SSH      9) pfTop
1) Assign Interfaces            10) Filter Logs
2) Set interface(s) IP address  11) Restart GUI
3) Reset admin account and password 12) PHP shell + pfSense tools
4) Reset to factory defaults    13) Update from console
5) Reboot system                14) Enable Secure Shell (sshd)
6) Halt system                  15) Restore recent configuration
7) Ping host                    16) Restart PHP-FPM
8) Shell
```

Before disabling the interface, ICMP ping requests received a valid reply, indicating the interface was active and processing traffic. After unchecking 'Enable Interface', the interface state changed to 'down'. Subsequent ping attempts resulted in a 'Request Timed Out' because the operating system stopped listening on that port and logically disconnected it from the network stack.

# LAB - 2

✗	Dec 13 04:02:08	LANCORE	Default deny rule IPv4 (1000000104)	i [192.168.10.103:64562	i [192.168.10.106:80	TCP:A
✗	Dec 13 04:02:08	LANCORE	Default deny rule IPv4 (1000000104)	i [192.168.10.103:64562	i [192.168.10.106:80	TCP:A
✗	Dec 13 04:02:09	LANCORE	Default deny rule IPv4 (1000000104)	i [192.168.10.103:64562	i [192.168.10.106:80	TCP:A
✗	Dec 13 04:02:10	LANCORE	Default deny rule IPv4 (1000000104)	i [192.168.10.103:64562	i [192.168.10.106:80	TCP:A
✗	Dec 13 04:02:12	LANCORE	Default deny rule IPv4 (1000000104)	i [192.168.10.103:64562	i [192.168.10.106:80	TCP:A
✗	Dec 13 04:02:16	LANCORE	Default deny rule IPv4 (1000000104)	i [192.168.10.103:51581	i [192.168.10.106:80	TCP:A
✗	Dec 13 04:02:16	LANCORE	Default deny rule IPv4 (1000000104)	i [192.168.10.103:51581	i [192.168.10.106:80	TCP:A
✗	Dec 13 04:02:16	LANCORE	Default deny rule IPv4 (1000000104)	i [192.168.10.103:51581	i [192.168.10.106:80	TCP:A
✗	Dec 13 04:02:16	LANCORE	Default deny rule IPv4 (1000000104)	i [192.168.10.103:51581	i [192.168.10.106:80	TCP:A
✗	Dec 13 04:02:16	LANCORE	Default deny rule IPv4 (1000000104)	i [192.168.10.103:51581	i [192.168.10.106:80	TCP:A
✗	Dec 13 04:02:16	LANCORE	Default deny rule IPv4 (1000000104)	i [192.168.10.103:51581	i [192.168.10.106:80	TCP:A
✗	Dec 13 04:02:16	LANCORE	Default deny rule IPv4 (1000000104)	i [192.168.10.103:51581	i [192.168.10.106:80	TCP:A
✗	Dec 13 04:02:18	LANCORE	Default deny rule IPv4 (1000000104)	i [192.168.10.103:51581	i [192.168.10.106:80	TCP:A
✗	Dec 13 04:02:20	LANCORE	Default deny rule IPv4 (1000000104)	i [192.168.10.103:51581	i [192.168.10.106:80	TCP:A
✗	Dec 13 04:02:25	LANCORE	Default deny rule IPv4 (1000000104)	i [192.168.10.103:51581	i [192.168.10.106:80	TCP:A
✗	Dec 13 04:02:26	LANCORE	Default deny rule IPv4 (1000000104)	i [192.168.10.103:64562	i [192.168.10.106:80	TCP:A
✗	Dec 13 04:02:32	LANCORE	Default deny rule IPv4 (1000000104)	i [192.168.10.103:51581	i [192.168.10.106:80	TCP:A
✗	Dec 13 04:02:43	LANCORE	Default deny rule IPv4 (1000000104)	i [192.168.10.103:64562	i [192.168.10.106:80	TCP:A
✗	Dec 13 04:02:46	LANCORE	Default deny rule IPv4 (1000000104)	i [192.168.10.103:51581	i [192.168.10.106:80	TCP:A
✗	Dec 13 04:07:00	WANLINK	Default deny rule IPv4 (1000000104)	i [10.0.2.1:548451	i [192.168.10.103:51581	TCP:RA
✗	Dec 13 04:11:51	WANLINK	Default deny rule IPv4 (1000000103)	i [10.0.2.2:267	i [255.255.255.255:68	UDP

Firewall / Rules / LANCORE										
Floating	WANUPLINK	LANCORE								
Rules (Drag to Change Order)										
States	Protocol	Source	Port	Destination	Port	Gateway	Queue	Schedule	Description	Actions
<input checked="" type="checkbox"/> 1/105 Kib	*	*	*	LANCORE Address	80	*	*		Anti-Lockout Rule	
<input type="checkbox"/> <span style="color:red">X</span> 0/0 B	IPv4 ICMP any	LANCORE address	*	*	*	*	none		Block LAN ICMP	
<input type="checkbox"/> <input checked="" type="checkbox"/> 0/0 B	IPv4 *	192.168.1.50	*	*	*	*	none		Allow Specific Host	
<input type="checkbox"/> <input checked="" type="checkbox"/> 0/0 B	IPv4 *	LANCORE subnets	*	*	*	*	none		Default allow LAN to any rule	
<input type="checkbox"/> <input checked="" type="checkbox"/> 0/0 B	IPv6 *	LANCORE subnets	*	*	*	*	none		Default allow LAN IPv6 to any rule	

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## Firewall / Schedules

Name	Range: Date / Times / Name	Description	Actions
workhours	December 8 - 12 / 9:00-16:59 / workhours		

Indicates that the schedule is currently active.

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## Firewall / Rules / LANCORE

The changes have been applied successfully. The firewall rules are now reloading in the background.  
Monitor the filter reload progress.

Floating	WANLINK	LANCORE								
<b>Rules (Drag to Change Order)</b>										
States	Protocol	Source	Port	Destination	Port	Gateway	Queue	Schedule	Description	Actions
	2/103 Kib	*	*	*	LANCORE Address	80	*	*	Anti-Lockout Rule	
	0/0 B	IPv4 ICMP any	*	*	*	*	*	none	Block LAN ICMP	
	0/0 B	IPv4 *	192.168.1.50	*	*	*	*	none	Allow Specific Host	
	0/0 B	IPv4 *	LANCORE subnets	*	*	*	*	none	Default allow LAN to any rule	
	0/0 B	IPv6 *	LANCORE subnets	*	*	*	*	none	Default allow LAN IPv6 to any rule	

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Firewall / Rules / LANCORE

The changes have been applied successfully. The firewall rules are now reloading in the background.  
Monitor the filter reload progress.

Floating WANLINK LANCORE

**Rules (Drag to Change Order)**

	States	Protocol	Source	Port	Destination	Port	Gateway	Queue	Schedule	Description	Actions
<input checked="" type="checkbox"/>	6/90 KIB	*	*	*	LANCORE Address	80	*	*		Anti-Lockout Rule	
<input type="checkbox"/>	✓ 0/0 B	IPv4*	192.168.1.50	*	*	*	*	none		Allow Specific Host	
<input type="checkbox"/>	✓ 0/0 B	IPv4*	LANCORE subnets	*	*	*	*	none		Default allow LAN to any rule	
<input type="checkbox"/>	✓ 0/0 B	IPv6*	LANCORE subnets	*	*	*	*	none		Default allow LAN IPv6 to any rule	

Add Add Delete Toggle Copy Save Separator

# LAB – 4

Status / DHCP Leases

ISC DHCP has reached end-of-life and will be removed in a future version of pfSense. Visit System > Advanced > Networking to switch DHCP backend.

**Search**

Search Term  Lease Type

Enter a search string or \*nix regular expression to filter entries.

**Leases**

IP Address	MAC Address	Hostname	Description	Start	End	Actions
192.168.10.20	08:00:27:0a:f6:51	Manager-Laptop		n/a	n/a	
192.168.1.100	08:00:27:0a:f6:51	pfSense		2025/12/09 09:49:24	2025/12/09 11:49:24	

**Lease Utilization**

Interface	Pool Start	Pool End	Used	Capacity	Utilization
No leases are in use					

**LANCORE**

**General Settings**

DHCP Backend: ISC DHCP

Enable:  Enable DHCP server on LANCORE interface

BOOTP:  Ignore BOOTP queries

Deny Unknown Clients:  When set to Allow all clients, any DHCP client will get an IP address within this scope/range on this interface. If set to Allow known clients from any interface, any DHCP client with a MAC address listed in a static mapping on any scope(s)/interface(s) will get an IP address. If set to Allow known clients from only this interface, only MAC addresses listed in static mappings on this interface will get an IP address within this scope/range.

Ignore Denied Clients:  Ignore denied clients rather than reject  
This option is not compatible with failover and cannot be enabled when a Failover Peer IP address is configured.

Ignore Client Identifiers:  Do not record a unique identifier (UID) in client lease data if present in the client DHCP request  
This option may be useful when a client can dual boot using different client identifiers but the same hardware (MAC) address. Note that the resulting server behavior violates the official DHCP specification.

Additional Pools	Pool Start	Pool End	Description	Actions
	192.168.10.100	192.168.10.199		
<p><b>+ Add Address Pool</b></p> <p>If additional pools of addresses are needed inside of this subnet outside the above range, they may be specified here.</p>				
<b>Server Options</b>				
WINS Servers	WINS Server 1  WINS Server 2			
DNS Servers	8.8.8.8  1.1.1.1			
	DNS Server 3  DNS Server 4			
<b>OMAPI</b>				
OMAPI Port	OMAPI Port  Set the port that OMAPI will listen on. The default port is 7911, leave blank to disable. Only the first OMAPI configuration is used.			
OMAPI Key	OMAPI Key  Enter a key matching the selected algorithm to secure connections to the OMAPI endpoint.  <input type="checkbox"/> Generate New Key Generate a new key based on the selected algorithm.			
Key Algorithm	HMAC-SHA256 (current bind9 default)  Set the algorithm that OMAPI key will use.			
<b>DHCP Static Mappings</b>				
IP Address	Hostname	MAC Address	Description	Actions
192.168.10.20	Manager-Laptop	08:00:27:0a:f6:51		

### Primary Address Pool

<b>Subnet</b>	192.168.10.0/24		
<b>Subnet Range</b>	192.168.10.1 - 192.168.10.254		
<b>Address Pool Range</b>	From 192.168.1.100	To 192.168.1.199	
The specified range for this pool must not be within the range configured on any other address pool for this interface.			
<b>Additional Pools</b>	<b>Pool Start</b>	<b>Pool End</b>	<b>Description</b>
	192.168.10.100	192.168.10.199	
<a href="#" style="background-color: #2e7131; color: white; padding: 2px 10px; border-radius: 5px;">+ Add Address Pool</a> <p>If additional pools of addresses are needed inside of this subnet outside the above range, they may be specified here.</p>			

---

### General Settings

<b>DHCP Backend</b>	ISC DHCP
<b>Enable</b>	<input checked="" type="checkbox"/> Enable DHCP server on LANCORE interface
<b>BOOTP</b>	<input type="checkbox"/> Ignore BOOTP queries
<b>Deny Unknown Clients</b>	<input type="button" value="Allow all clients"/>
When set to <b>Allow all clients</b> , any DHCP client will get an IP address within this scope/range on this interface. If set to <b>Allow known clients from any Interface</b> , any DHCP client with a MAC address listed in a static mapping on <b>any</b> scope(s)/Interface(s) will get an IP address. If set to <b>Allow known clients from only this interface</b> , only MAC addresses listed in static mappings on this interface will get an IP address within this scope/range.	
<b>Ignore Denied Clients</b>	<input type="checkbox"/> Ignore denied clients rather than reject
This option is not compatible with failover and cannot be enabled when a Failover Peer IP address is configured.	
<b>Ignore Client Identifiers</b>	<input type="checkbox"/> Do not record a unique identifier (UID) in client lease data if present in the client DHCP request
This option may be useful when a client can dual boot using different client identifiers but the same hardware (MAC) address. Note that the resulting server behavior violates the official DHCP specification.	

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### Primary Address Pool

<b>Subnet</b>	192.168.10.0/24		
<b>Subnet Range</b>	192.168.10.1 - 192.168.10.254		
<b>Address Pool Range</b>	From 192.168.1.100	To 192.168.1.199	
The specified range for this pool must not be within the range configured on any other address pool for this interface.			
<b>Additional Pools</b>	<a href="#" style="background-color: #2e7131; color: white; padding: 2px 10px; border-radius: 5px;">+ Add Address Pool</a> <p>If additional pools of addresses are needed inside of this subnet outside the above range, they may be specified here.</p>		

# LAB – 3

The changes have been applied successfully. The firewall rules are now reloading in the background.  
Monitor the filter reload progress.

Port Forward    1:1    **Outbound**    NPT

**Outbound NAT Mode**

<input type="radio"/>	Automatic outbound NAT rule generation. (IPsec passthrough included)	<input checked="" type="radio"/>	Hybrid Outbound NAT rule generation. (Automatic Outbound NAT + rules below)	<input type="radio"/>	Manual Outbound NAT rule generation. (AON - Advanced Outbound NAT)	<input type="radio"/>	Disable Outbound NAT rule generation. (No Outbound NAT rules)
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**Mappings**

Interface	Source	Source Port	Destination	Destination Port	NAT Address	NAT Port	Static Port	Description	Actions
<input checked="" type="checkbox"/> WANUPLINK	192.168.20.0/24	*	*	*	WANUPLINK address	*		Manual Outbound for Lab Subnet	

**Automatic Rules**

Interface	Source	Source Port	Destination	Destination Port	NAT Address	NAT Port	Static Port	Description
<input checked="" type="checkbox"/> WANUPLINK	127.0.0.0/8 ::1/128 192.168.10.0/24	*	*	500	WANUPLINK address	*		Auto created rule for ISAKMP
<input checked="" type="checkbox"/> WANUPLINK	127.0.0.0/8 ::1/128 192.168.10.0/24	*	*	*	WANUPLINK address	*		Auto created rule

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**Firewall / NAT / Port Forward**

The changes have been applied successfully. The firewall rules are now reloading in the background.  
Monitor the filter reload progress.

Port Forward    1:1    **Outbound**    NPT

**Rules**

Interface	Protocol	Source Address	Source Ports	Dest. Address	Dest. Ports	NAT IP	NAT Ports	Description	Actions
<input checked="" type="checkbox"/> WANUPLINK	TCP	*	*	WANUPLINK address	80 (HTTP)	192.168.1.50	80 (HTTP)	Web Server Forward	

**Legend**

- Pass
- Linked rule

**pfSense**  
COMMUNITY EDITION

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

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### Firewall / NAT / Outbound

Port Forward    1:1    **Outbound**    NPT

#### Outbound NAT Mode

<b>Mode</b>	<input checked="" type="radio"/> Automatic outbound NAT rule generation. (IPsec passthrough included)	<input type="radio"/> Hybrid Outbound NAT rule generation. (Automatic Outbound NAT + rules below)	<input type="radio"/> Manual Outbound NAT rule generation. (AON - Advanced Outbound NAT)	<input type="radio"/> Disable Outbound NAT rule generation. (No Outbound NAT rules)
-------------	---	---	--	---

**Save**

#### Mappings

<input type="checkbox"/>	Interface	Source	Source Port	Destination	Destination Port	NAT Address	NAT Port	Static Port	Description	Actions
										<b>Add</b> <b>Up</b> <b>Down</b> <b>Delete</b> <b>Toggle</b> <b>Save</b>

#### Automatic Rules

Interface	Source	Source Port	Destination	Destination Port	NAT Address	NAT Port	Static Port	Description
✓ WANLINK	127.0.0.0/8::1/128 192.168.10.0/24	*	*	500	WANLINK address	*	✓	Auto created rule for ISAKMP