

LAB 3 – NAT & Port Forwarding

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

WARNING:
The password for this account is insecure. Password is currently set to the default value (pfsense).
[Change the password as soon as possible.](#)

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 NAT

Rules

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

Add Add Delete Toggle Save Separator

Legend
 Pass
 Linked rule

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[Monitor the filter reload progress.](#)

Port Forward 1:1 **Outbound** NAT

Outbound NAT Mode

Mode

☐ Automatic outbound NAT rule generation. (IPsec passthrough included)

☒ Hybrid Outbound NAT rule generation. (Automatic Outbound NAT + rules below)

☐ Manual Outbound NAT rule generation. (AON - Advanced Outbound NAT)

☐ 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
<input type="checkbox"/>	<input checked="" type="checkbox"/> WANUPLINK	192.168.20.0/24	*	*	*	WANUPLINK address	*		Manual Outbound for Lab Subnet	

Add Add Delete Toggle Save

Automatic Rules

<input type="checkbox"/>	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	*	<input checked="" type="checkbox"/>	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

Redirect target IP

Address or Alias

192.168.1.50

TypeAddress

Enter the internal IP address of the server on which to map the ports, e.g.: 192.168.1.12 for IPv4
In case of IPv6 addresses, it must be from the same "scope",
i.e. it is not possible to redirect from link-local addresses scope (fe80:*) to local scope (::1)

Redirect target port

HTTP

PortCustom

Specify the port on the machine with the IP address entered above. In case of a port range, specify the beginning port of the range (the end port will be calculated automatically).
This is usually identical to the "From port" above.

Description

Web Server Forward

A description may be entered here for administrative reference (not parsed).

No XMLRPC Sync

☐ Do not automatically sync to other CARP members

This prevents the rule on Master from automatically syncing to other CARP members. This does NOT prevent the rule from being overwritten on Slave.

NAT reflection

Disable

Filter rule association

Rule: NAT Web Server Forward

[View the filter rule](#)

Rule Information

Created

12/13/25 04:56:22 by admin@192.168.10.103 (Local Database)

Updated

12/13/25 04:57:11 by admin@192.168.10.103 (Local Database)

Save

StatesReset States

State Filter

Interface

all

Filter expression

192.168.10.1

Rule ID

Comma separated list of integer rule IDs

Filter

Kill filtered states

Kill States

Remove all states to and from the filtered address

States

Interface	Protocol	Source (Original Source) -> Destination (Original Destination)	State	Packets	Bytes	
LANCORE	tcp	192.168.10.103:63010 -> 192.168.10.1:80	ESTABLISHED:ESTABLISHED	117 / 196	27 KiB / 225 KiB	
LANCORE	tcp	192.168.10.103:58490 -> 192.168.10.1:80	FIN_WAIT_2:FIN_WAIT_2	4 / 3	172 B / 132 B	
LANCORE	tcp	192.168.10.103:52970 -> 192.168.10.1:80	ESTABLISHED:ESTABLISHED	35 / 54	9 KiB / 54 KiB	
LANCORE	tcp	192.168.10.103:54215 -> 192.168.10.1:80	ESTABLISHED:ESTABLISHED	5 / 4	931 B / 1 KiB	
LANCORE	tcp	192.168.10.103:51114 -> 192.168.10.1:80	ESTABLISHED:ESTABLISHED	5 / 4	942 B / 2 KiB	

