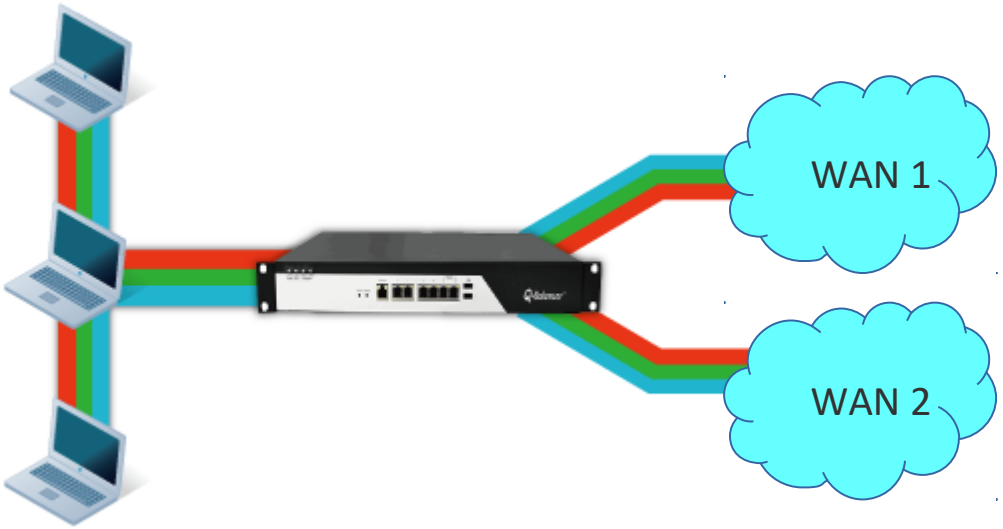
Q-Balancer®

How To Guide:

WAN Load Balancing

Introduction

Assuming there is a business network with 2 Internet connections, WAN 1 and WAN 2. The following is a simplified version of their network diagram:



On port 1
WAN 1: example_1
IP: 203.67.222.40
Subnet: 203.67.222.40/30
GW:203.67.222.1

On port 2
WAN 2: example_2
IP: 100.100.100.6
Subnet:100.100.100.0/29
GW:100.100.100.1

On port 4
LAN Subnet: 10.168.1.0/24
Interface IP: 10.168.1.254

Requirement

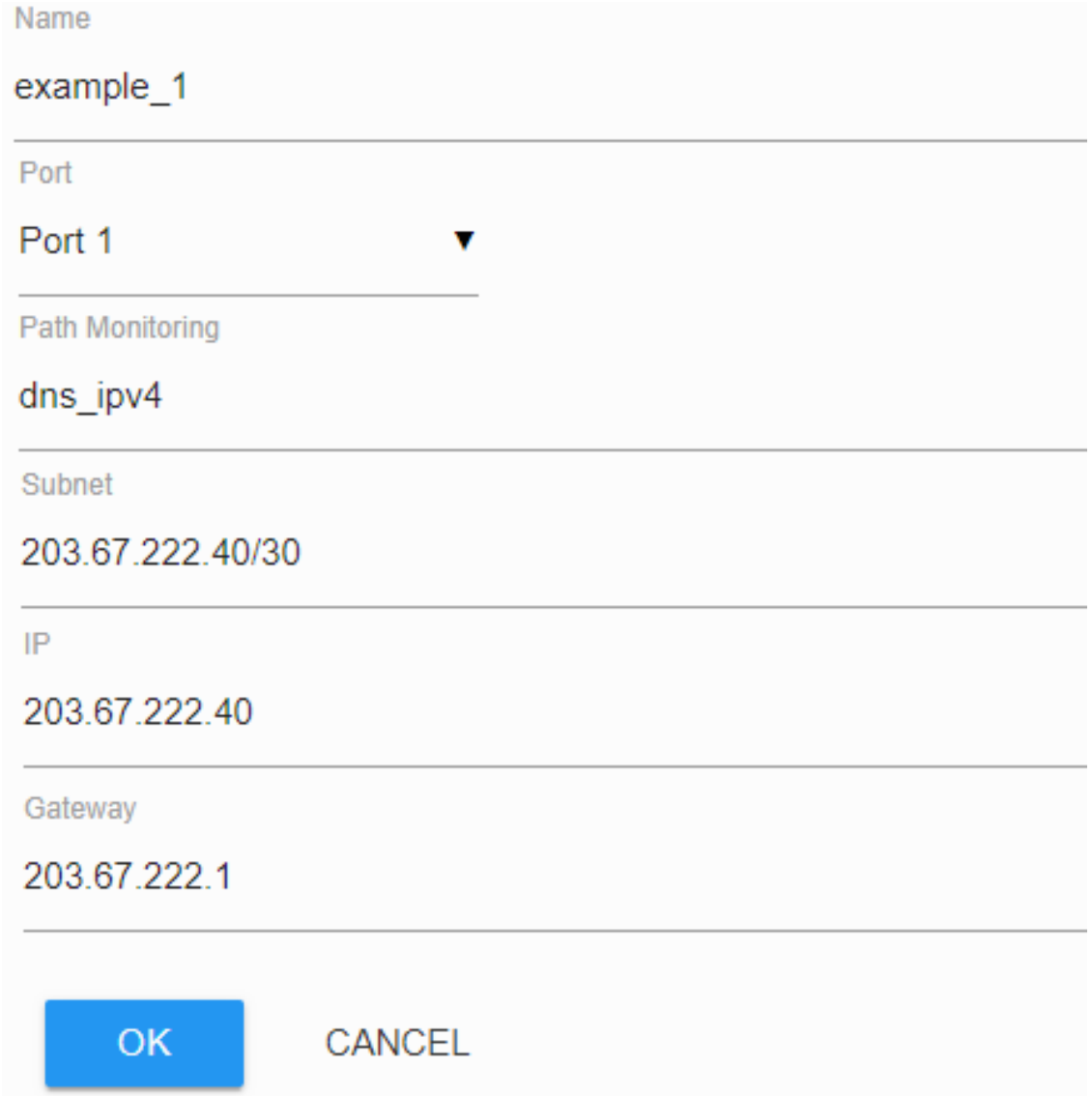
The Q-Balancer appliance is requested to distribute the traffic from LAN to the Internet across both WAN 1 and WAN 2. Meanwhile, when/if one of the WAN links is down, the LAN hosts can still access the Internet.

Solution: WAN Load Balancing

Follow the steps below to configure the appliance:

1. *WAN > ADD > Static*
2. *LAN > ADD*
3. *Object > DPS > ADD > WRR by Connection*
4. *Policy Routing > ADD*

WAN > ADD > Static



WAN > ADD > Static

Name

example_2

Port

Port 2 ▼

Path Monitoring

dns_ipv4 ▼

Subnet

100.100.100.0/29

IP

100.100.100.6

Gateway

100.100.100.1

Down/Up Speed

15.3 / 2.9 Mbps

OK CANCEL

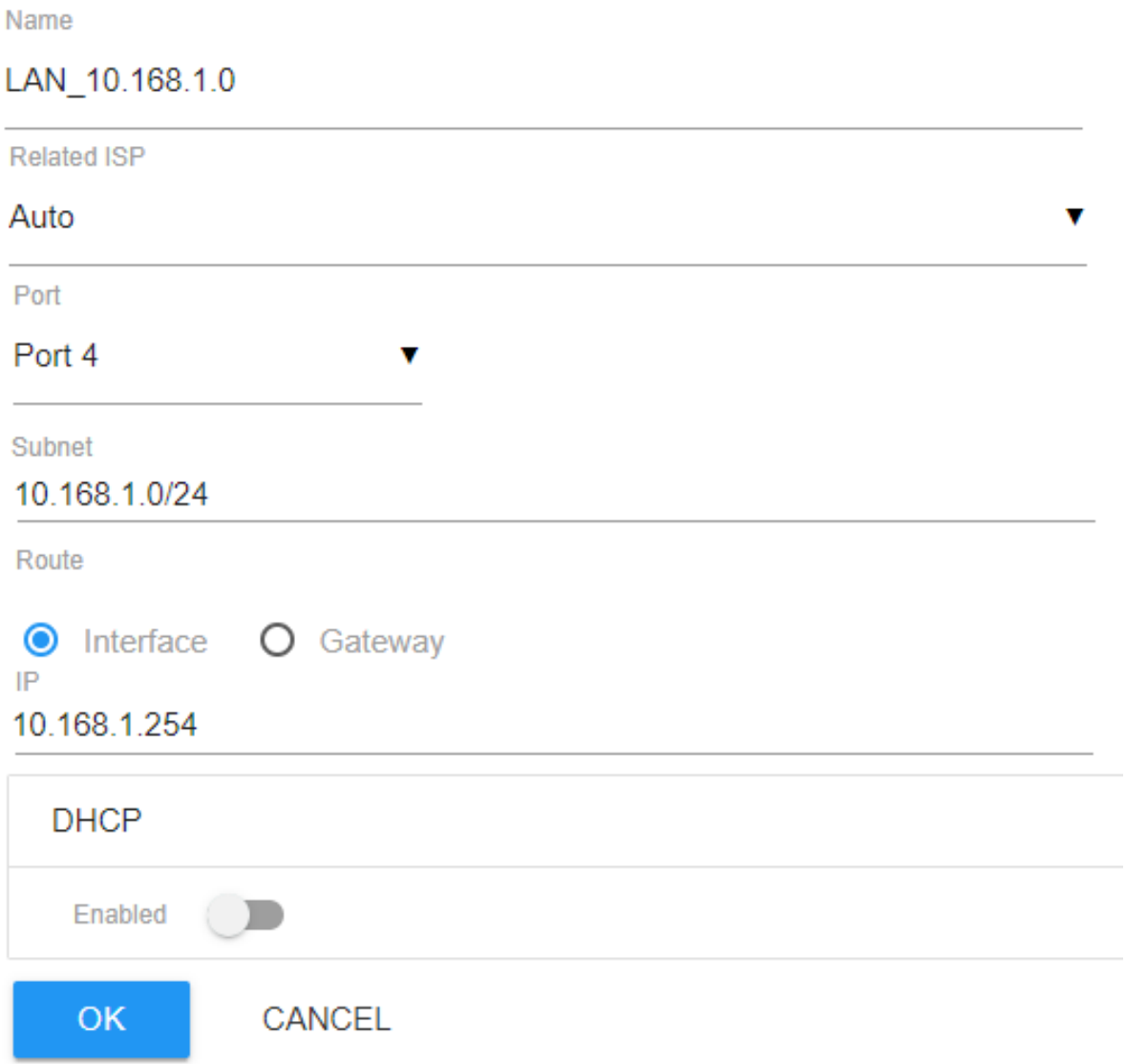
WAN configuration is done as follows:

WAN

ADD DELETE

Status	Type	Name	Port	Interface	Subnet	IP	Gateway
✓	Static	example_1	Port 1	eth0_6	203.67.222.40/30	203.67.222.40	203.67.222.1
✓	Static	example_2	Port 2	eth1_2	100.100.100.0/29	100.100.100.6	100.100.100.1

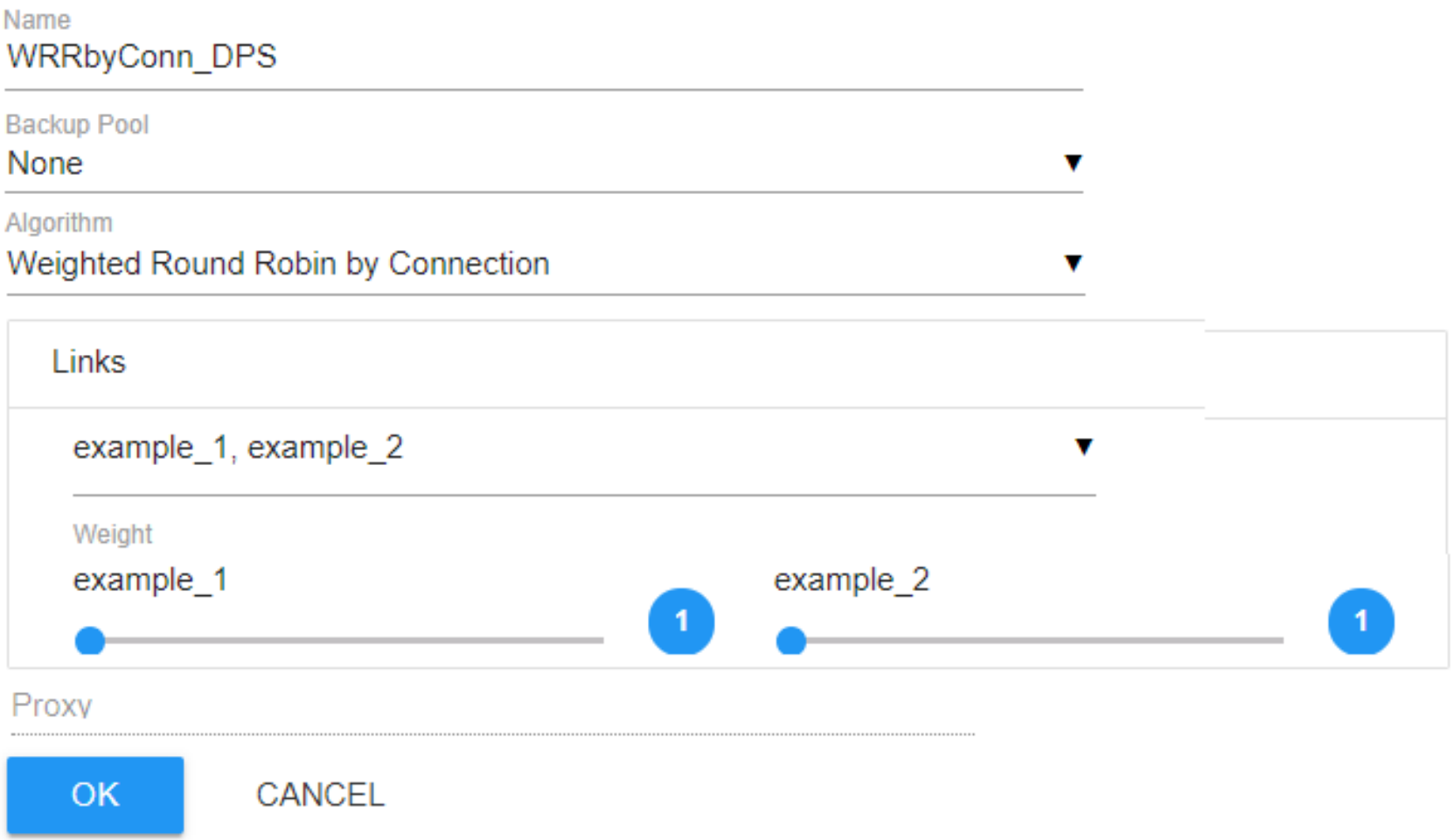
LAN > ADD


Name
LAN_10.168.1.0
Related ISP
Auto
Port
Port 4
Subnet
10.168.1.0/24
Route
Interface
Gateway
IP
10.168.1.254
DHCP
Enabled
OK
CANCEL

LAN

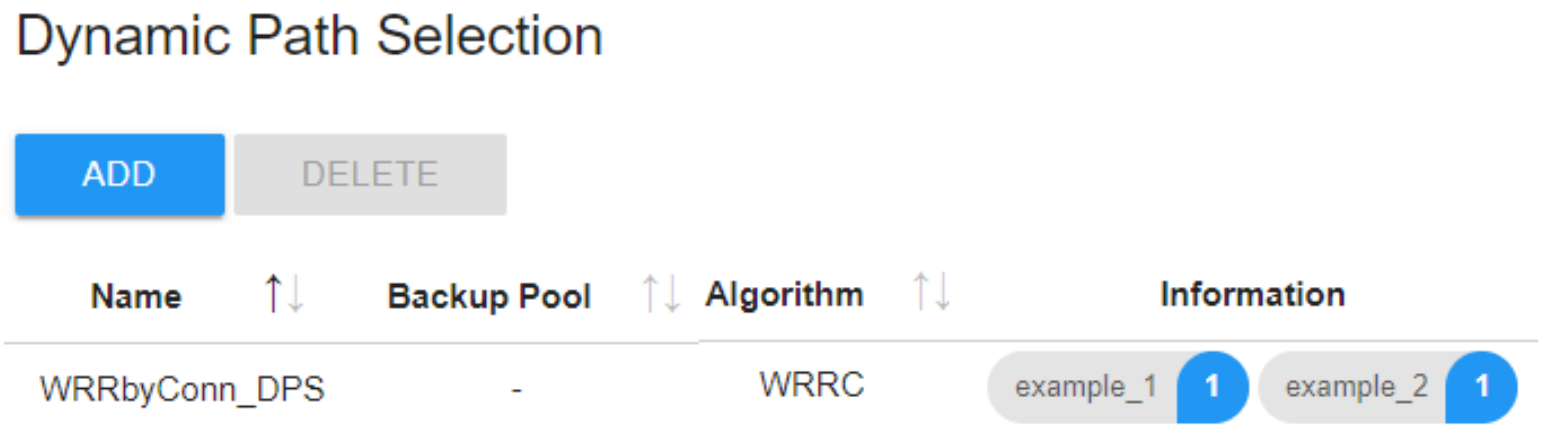
LAN configuration is done as follows:

Objects > DPS > ADD > WRR by Connection

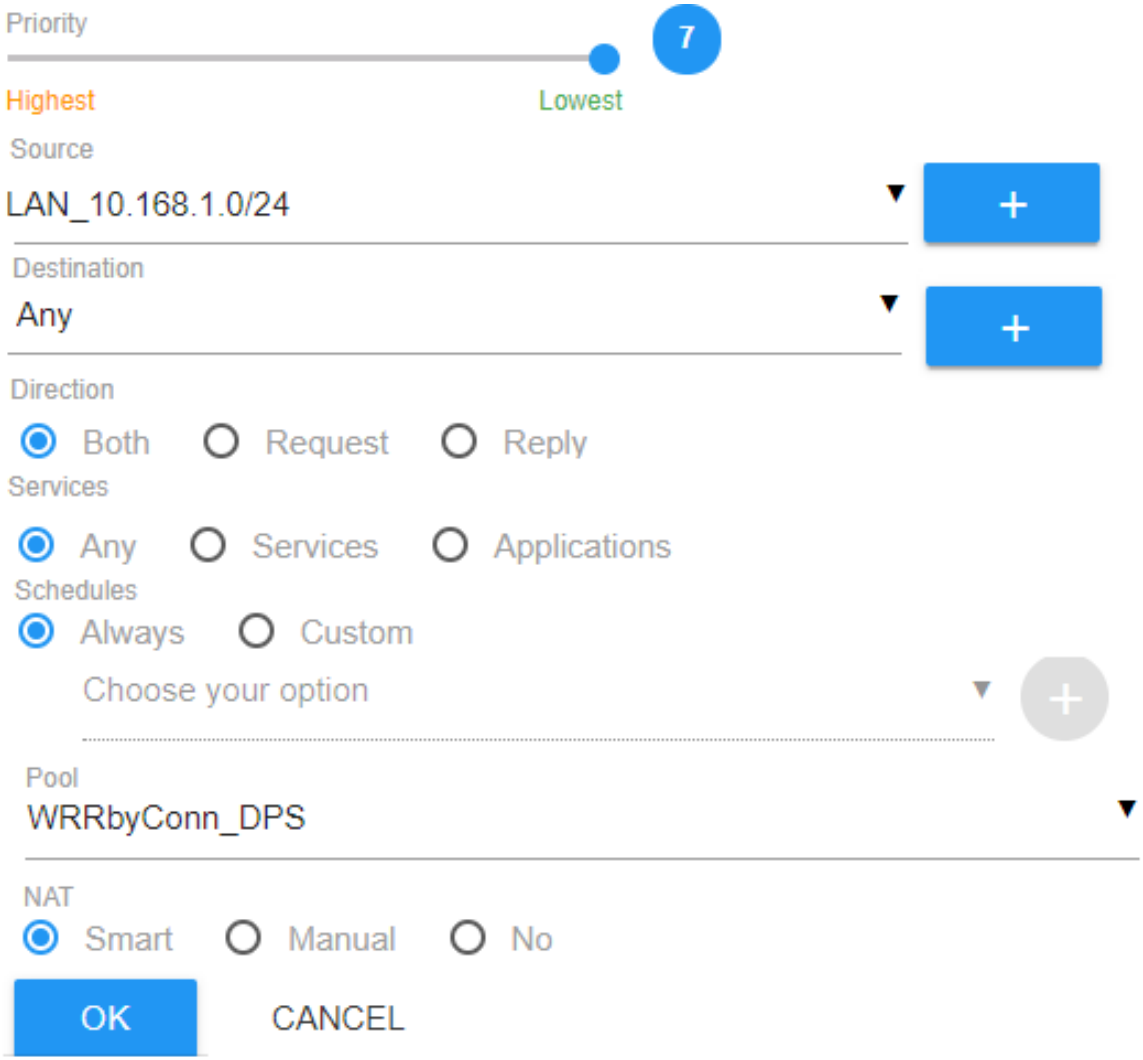


Dynamic Path Selection (DPS)

DPS configuration is done as follows:

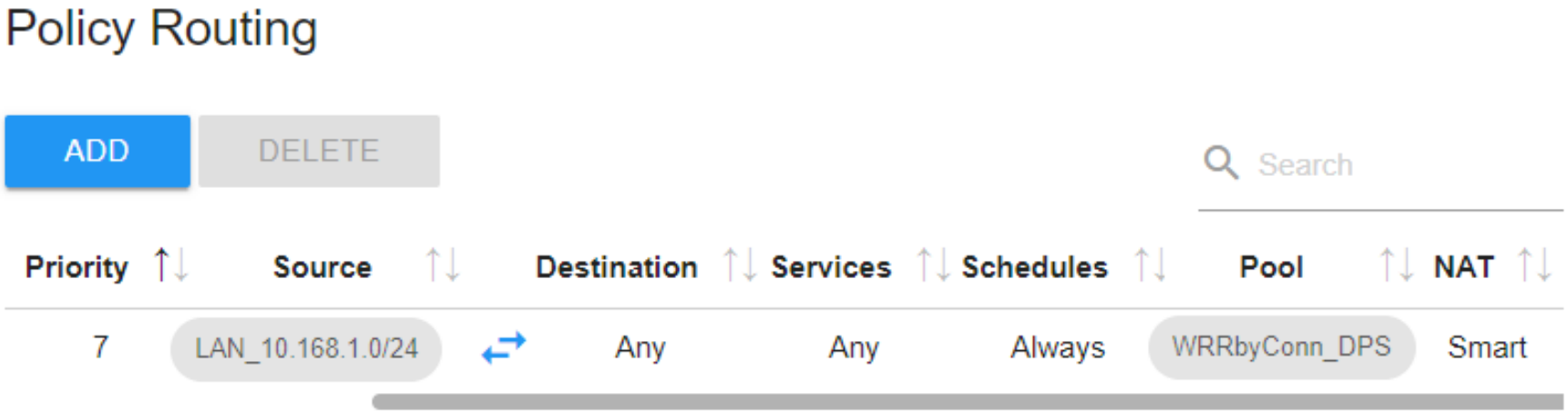


Policy Routing > ADD



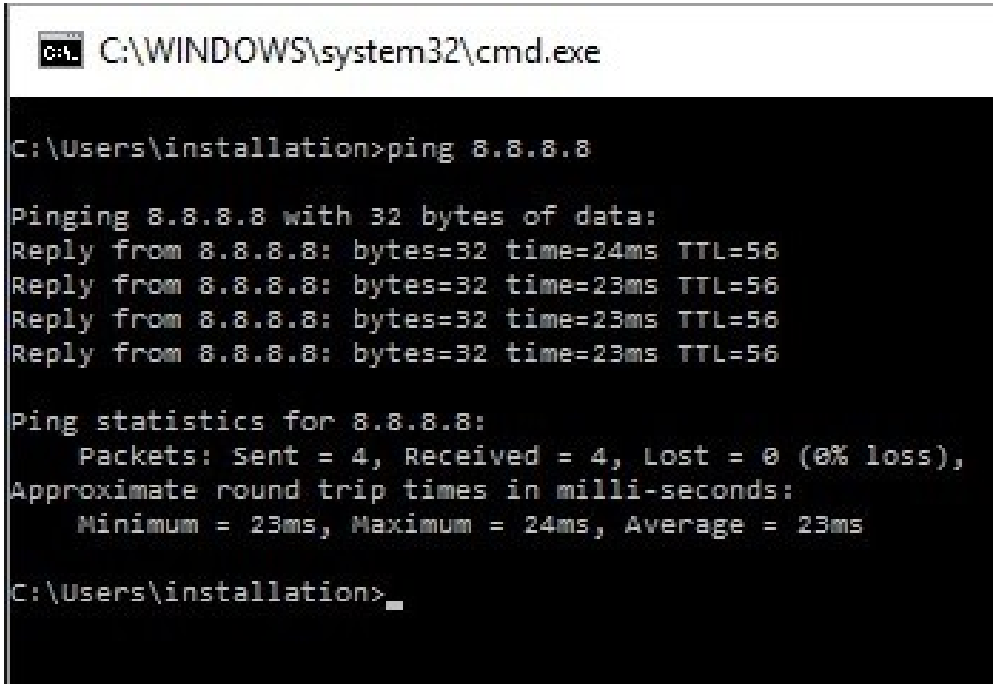
Policy Routing

Configuration for Policy Routing is done as follows:



Done!

When policy routing is done, the LAN hosts should be able to access the Internet at this stage.



Save or backup the configuration file

Save the ***Active*** configuration file to ***Boot*** if you want it to be loaded after a reboot.