

## Here is an example on how to set up port forwarding on your DFL-210:

For every port you want to forward, you need to set up 2 IP rules. A SAT rule and a ALLOW rule. Your SAT rule is ALWAYS before the ALLOW rule.

First you need to add your devices IP you want to forward the ports to.

The screenshot shows the Mikrotik WinBox configuration interface. The left sidebar displays a tree view of the configuration hierarchy for device DFL-800, with 'Objects' > 'Address Book' > 'InterfaceAddresses' selected. The main panel shows the 'InterfaceAddresses' configuration page, which includes a table of existing address objects:

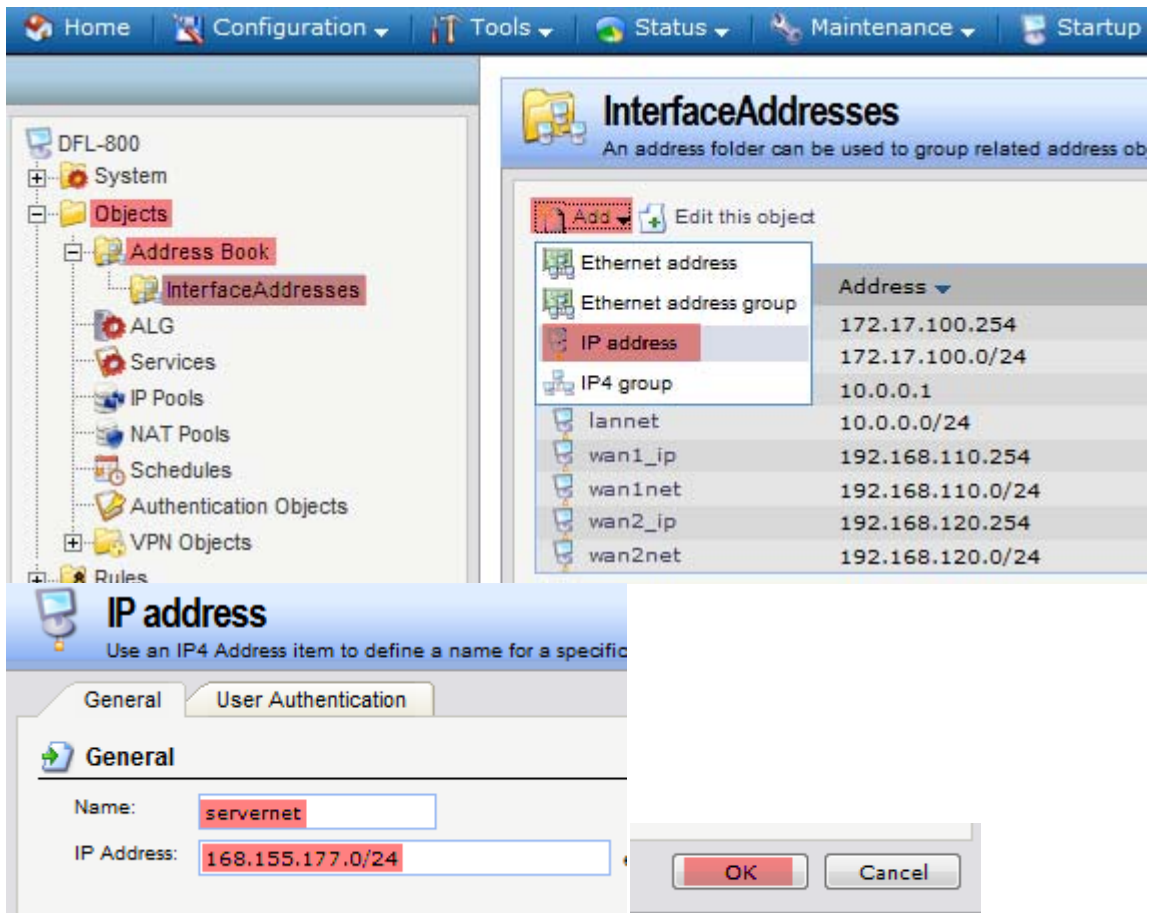
Address
172.17.100.254
172.17.100.0/24
10.0.0.1
10.0.0.0/24
192.168.110.254
192.168.110.0/24
192.168.120.254
192.168.120.0/24

An 'Add' button is highlighted, and a dropdown menu is open, showing 'IP address' as the selected option. Below this, the 'IP address' configuration dialog is shown. It has two tabs: 'General' and 'User Authentication'. The 'General' tab is active, showing the following fields:

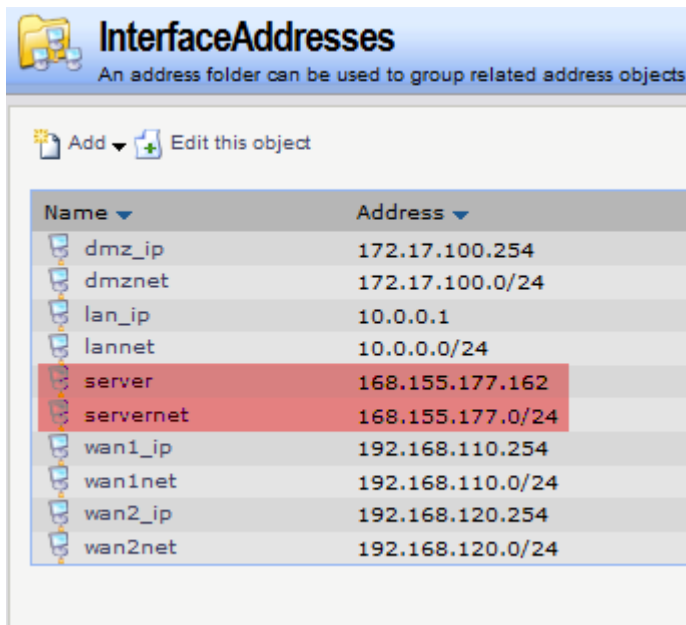
- Name:
- IP Address:  e.g: "172.16.50.8", "192.168.120.0/24"
- Comments:

At the bottom of the dialog are 'OK' and 'Cancel' buttons.

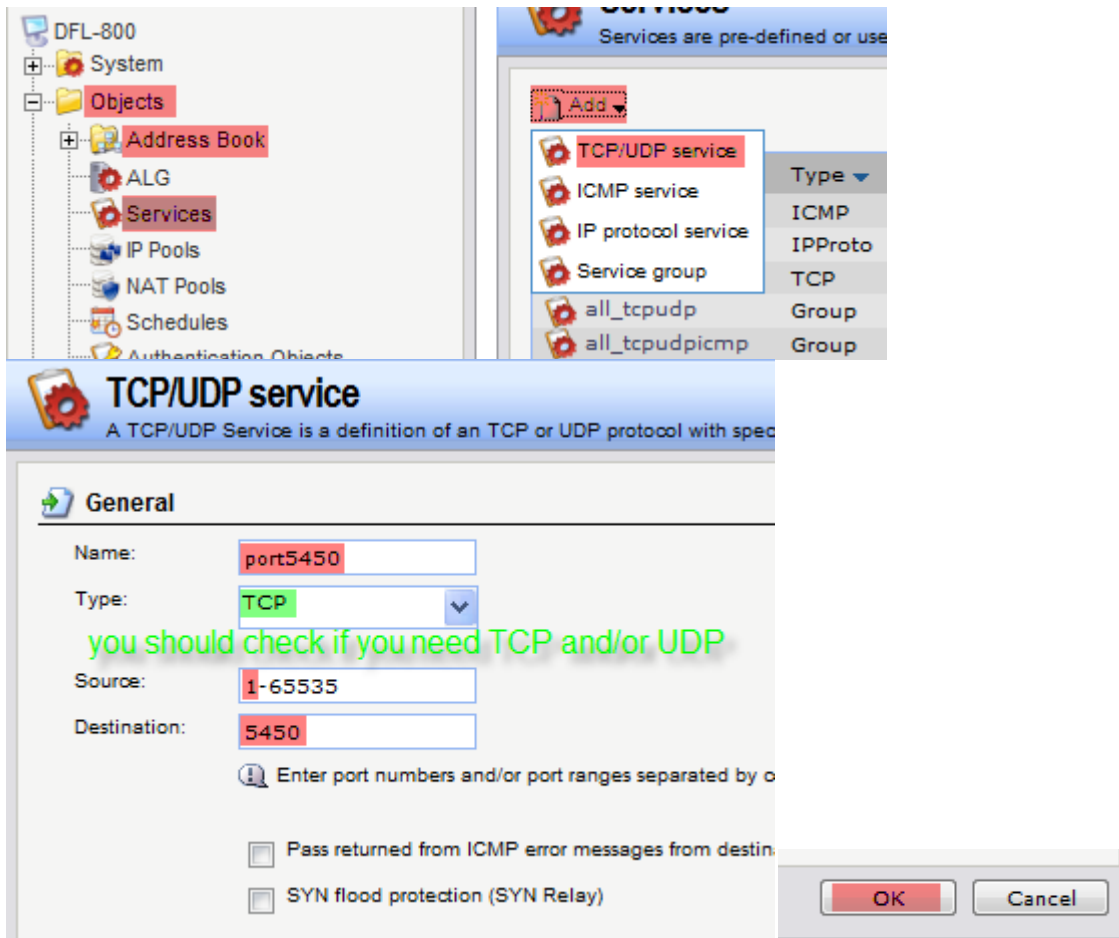
add your subnet mask also.



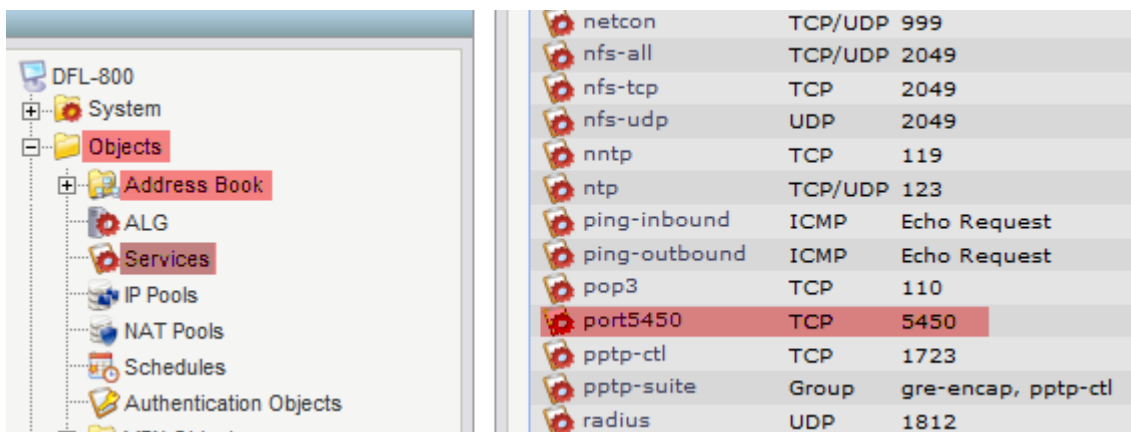
Then it should look something like this



Now we need to set up the ports to be forwarded to that address. If they are custom ports we need to add them into the services list first.



Now the port should show under your services



Do the same as above to add the other custom ports. Now we need to open the port and point it to the server. Remember that the SAT rule must be set up 1<sup>st</sup>, then the Allow rule.

SAT RULE:

Home Configuration Tools Status Maintenance

DFL-800  
 System  
 Objects  
 Rules  
 IP Rules  
 lan\_to\_wan1  
 Access  
 Interfaces

**IP Rules**  
 IP Rules are used to filter IP-b

Add  
 IP Rule Folder  
 IP Rule  
 lan\_to\_wan1  
 ping\_fw

**IP Rule**  
 An IP rule specifies what action to perform on network traffic that matches the specified filter c

General Log Settings NAT SAT SAT SLB Multiplex SAT

**General**

Name: port\_5450\_SAT  
 Action: SAT  
 Service: port5450  
 Schedule: (None)

**Address Filter**  
 Specify source interface and source network, together with destination interface and destination n

Source Destination  
 Interface: any core  
 Network: all-nets wan1\_ip

**IP Rule**  
 An IP rule specifies what action to perform on network traffic that matches the specified filt

General Log Settings NAT SAT SAT SLB Multiplex SAT

**General**

Translate the  
 Source IP Address  
 Destination IP Address

To:  
 New IP Address: server  
 New Port: 5450 This value may only be applied on TCP  
 All-to-One Mapping: rewrite all destination IPs to a single IP

OK Cancel

ALLOW RULE:

**IP Rule**  
An IP rule specifies what action to perform on network traffic that matches the specified filter criteria.

General | Log Settings | NAT | SAT | SAT SLB | Multiplex SAT

**General**

Name:

Action:

Service:

Schedule:

**Address Filter**

Specify source interface and source network, together with destination interface and destination network. All parameters are required.

	Source	Destination
Interface:	<input type="text" value="any"/>	<input type="text" value="core"/>
Network:	<input type="text" value="all-nets"/>	<input type="text" value="wan1_ip"/>

OK Cancel

Then it should look something like this:

**IP Rules**  
IP Rules are used to filter IP-based network traffic. In addition, they provide means for address translation as well as Server Load Balancing.

Add

#	Name	Action	Src If	Src Net	Dest If	Dest Net	Service
1	lan_to_wan1						
2	ping_fw	Allow	lan	lannet	core	lan_ip	ping-inbound
3	port_5450_SAT	SAT	any	all-nets	core	wan1_ip	port5450
4	allow_5450	Allow	any	all-nets	core	wan1_ip	port5450

Right-click on a row for further options.

Now all you need to do is to set the other ports up the same way. Remember, 1<sup>st</sup> the SAT rule then the allow rule. When you are done with all the ports it should look something like this.

8	ping_wan	Allow	any	all-nets	core	wan_ip	all_icmp
9	fwsat_rdp	SAT	any	all-nets	core	wan_ip	rdp
10	fwdallow_rdp	Allow	any	all-nets	core	wan_ip	rdp
11	fwsat_pop3	SAT	any	all-nets	core	wan_ip	pop3
12	fwdallow_pop3	Allow	any	all-nets	core	wan_ip	pop3
13	fwsat_smtp	SAT	any	all-nets	core	wan_ip	smtp
14	fwdallow_smtp	Allow	any	all-nets	core	wan_ip	smtp
15	fwsat_imap	SAT	any	all-nets	core	wan_ip	imap
16	fwdallow_imap	Allow	any	all-nets	core	wan_ip	imap
17	fwsat_webmail	SAT	any	all-nets	core	wan_ip	webmail
18	fwdallow_webmail	Allow	any	all-nets	core	wan_ip	webmail

And that is it, you're done.