Configuration examples for the D-Link NetDefend Firewall series

DFL-210/800/1600/2500

Scenario: How to configure SAT (Port Forwarding) for DMZ server

Last update: 2008-01-17

Overview

In this document, the notation *Objects->Address book* means that in the tree on the left side of the screen **Objects** first should be clicked (expanded) and then **Address Book**.

Most of the examples in this document are adapted for the DFL-800. The same settings can easily be used for all other models in the series. The only difference is the names of the interfaces. Since the DFL-1600 and DFL-2500 has more than one lan interface, the lan interfaces are named lan1, lan2 and lan3 not just lan.

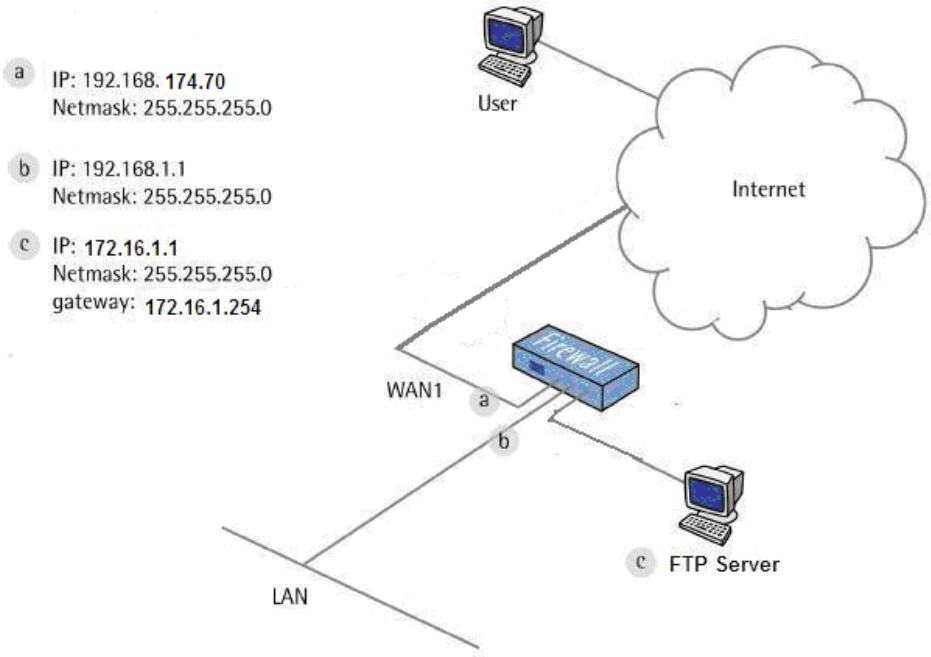
The screenshots in this document is from firmware version 2.11.02. If you are using an earlier version of the firmware, the screenshots may not be identical to what you see on your browser.

To prevent existing settings to interfere with the settings in these guides, reset the firewall to factory defaults before starting.

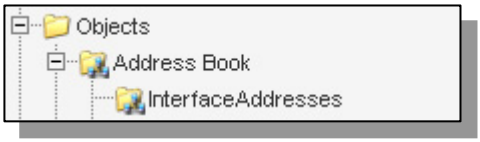
How to configure SAT (Port Forwarding) for DMZ server

In this example, we will create a SAT policy that will translate and allow connections from the Internet to a FTP server located in a DMZ

Example1: Wan 1 is used static ip

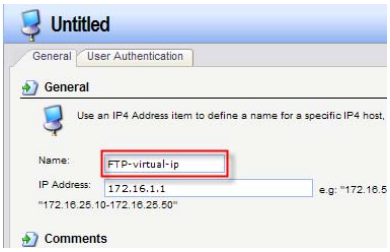


1. Addresses



Go to *Objects -> Address book -> InterfaceAddresses.*
Edit the following items:
Change Wan_ip to 192.168.174.70
Change Wannet to 192.168.174.0/24
Change DMZ_IP to 172.17.16.254
Change DMZnet to 172.17.16.0/24
Change lan_ip to 192.168.1.1
Change lannet to 192.168.1.0/24

2. Add the objects of both public and virtual IP addresses for FTP server



Go to *Objects -> Address book -> InterfaceAddresses*
Add a new **IP Address**
Name: FTP-virtual-ip
IP Address: 172.16.1.1

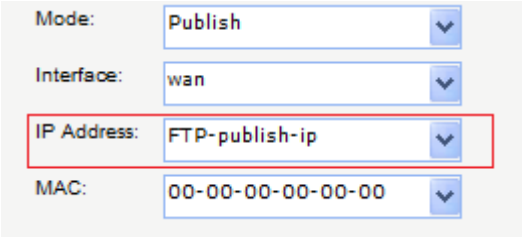
Click **Ok**

Add a new **IP Address**
Name: FTP-public-ip
IP Address: 192.168.174.71

Click **Ok**

3. Create the objects in ARP table

Go to Objects -> Interfaces -> ARP
Add a new **ARP**
Mode: Publish
Interface: wan
IP Address: FTP-public-ip

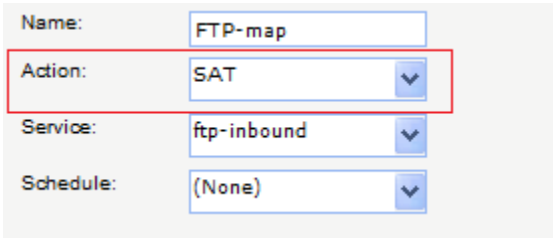


Click **Ok**

4. Create the IP rule to map FTP server (SAT)

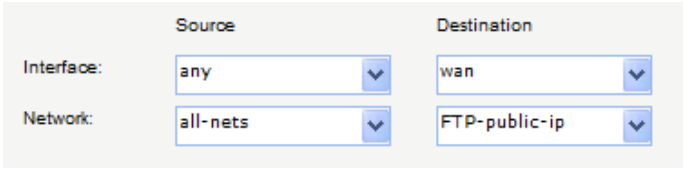
In the **General** tab:

Go to *Rules -> IP Rules*.
Add a new **IP Rules**

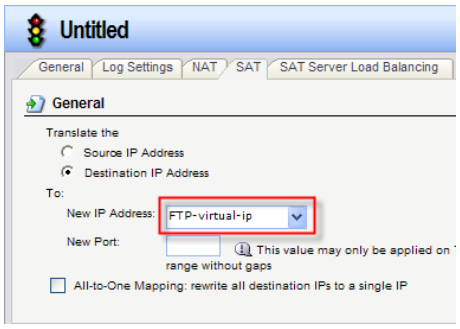


Name: FTP-map
Action: SAT
Service: ftp-inbound

ddress Filter:
Source Interface: any
Source Network: all-nets
Destination Interface: wan
Destination Network: FTP-public-ip

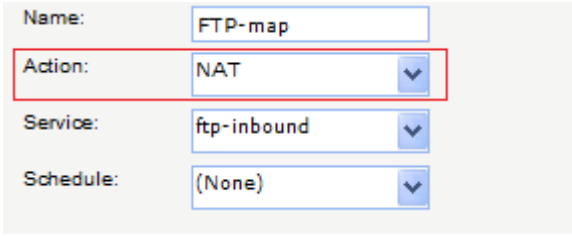


In the **SAT** tab:
Select **Destination IP Address**
New IP Address: FTP-virtual-ip



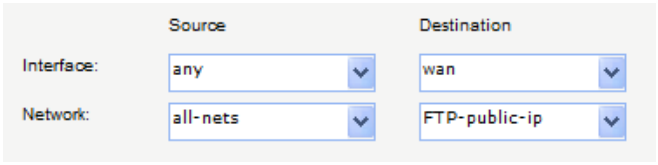
Click **Ok**.

Add a new **IP Rules**



Name: allow-FTP
Action: NAT
Service: ftp-inbound

Address Filter:
Source Interface: any
Source Network: all-nets
Destination Interface: wan
Destination Network: FTP-public-ip

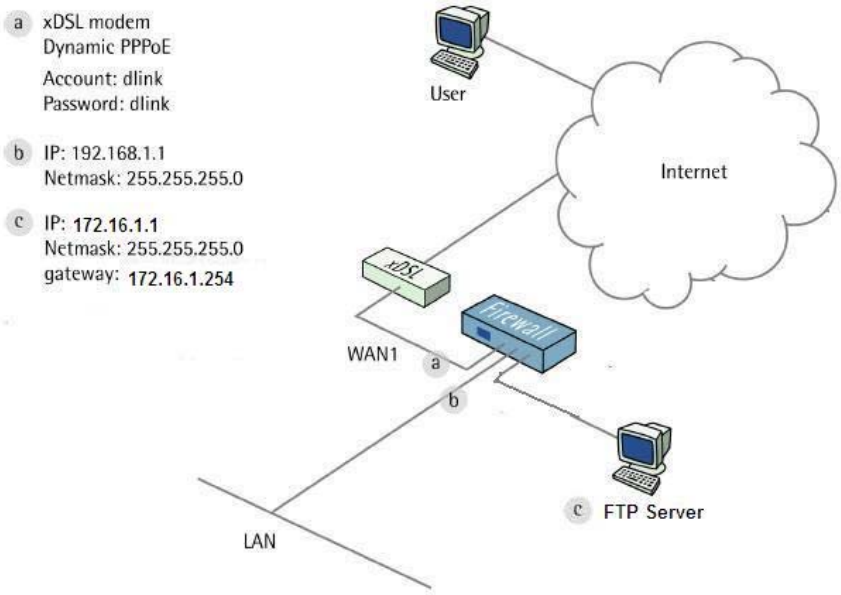


Click **Ok**.
Save and activate the configuration

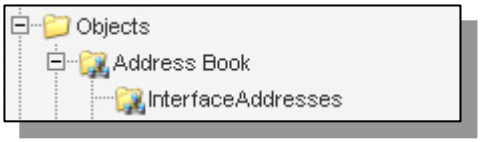
2 How to configure SAT(Port Forwarding) for DMZ server

In this example, we will create a SAT policy that will translate and allow connections from the Internet to a FTP server located in a DMZ

Example2: Wan 1 is used PPPoE



1. Addresses



Go to *Objects -> Address book -> InterfaceAddresses.*
Edit the following items:
Change lan_ip to 192.168.1.1
Change lannet to 192.168.1.0/24

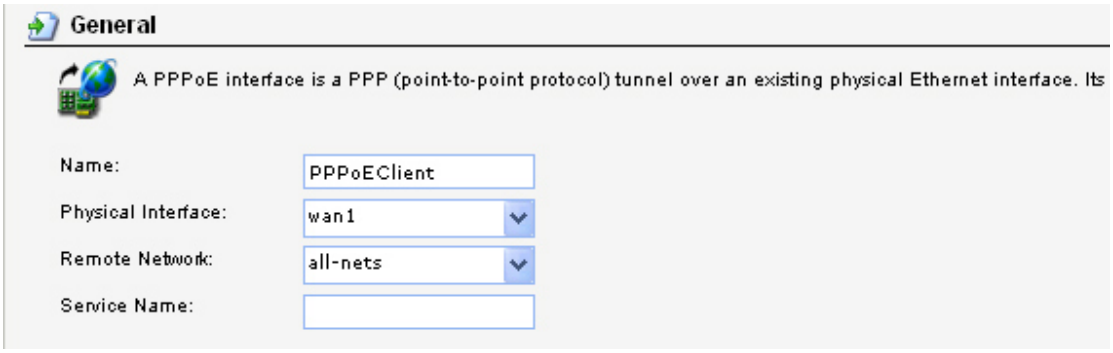
2. PPPoE client

Go to *Interfaces -> PPPoE Tunnels*.

Add a new **PPPoE Tunnel**.

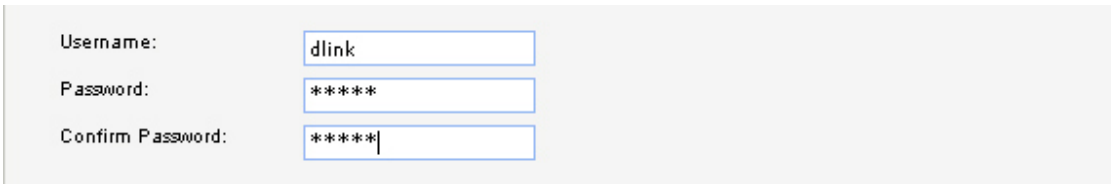
In the **General** tab:

General:



Name: PPPoEClient
Physical Interface: wan1
Remote Network: all-nets

Authentication:



Username: dlink (For Example)
Password: dlink

Confirm Password: dlink

Click **Ok**.

2. Dynamic DNS

Go to System -> *Misc. Clients*.

Add a new **DynDNSClientDynDNS.Org**:

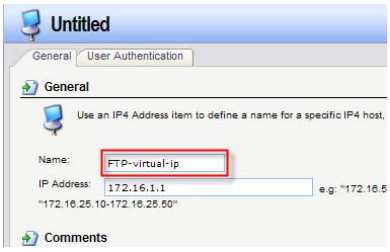
In the **General** tab:

DNSName: dlinktest.dyndns.org
Username: `dlink`
Password: dlink
Confirm Password: dlink

Click **Ok**.

3. Add the objects of both public and virtual IP addresses for FTP server

Go to *Objects -> Address book -> InterfaceAddresses*
Add a new **IP Address**
Name: FTP-virtual-ip
IP Address: 172.16.1.1



Click **Ok**

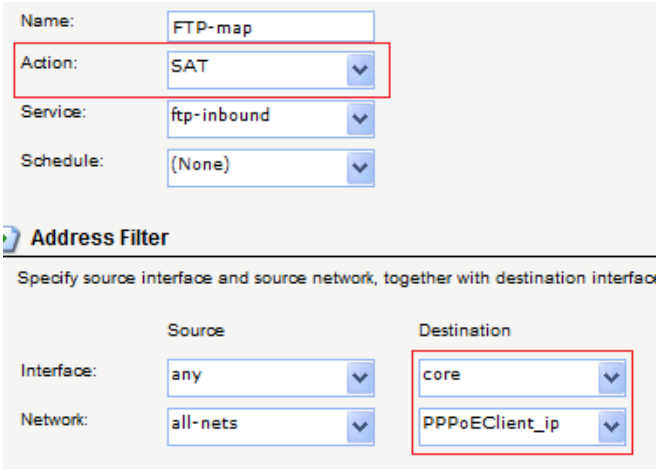
4. Create the IP rule to map FTP server (SAT)

In the **General** tab:

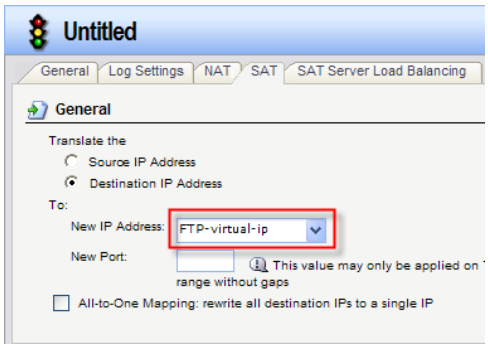
Go to *Rules -> IP Rules*.
Add a new **IP Rules**

Name: FTP-map
Action: SAT
Service: ftp-inbound

Address Filter:
Source Interface: any
Source Network: all-nets
Destination Interface: core
Destination Network: PPPoEClient_ip



In the **SAT** tab:
Select **Destination IP Address**
New IP Address: FTP-vitual-ip

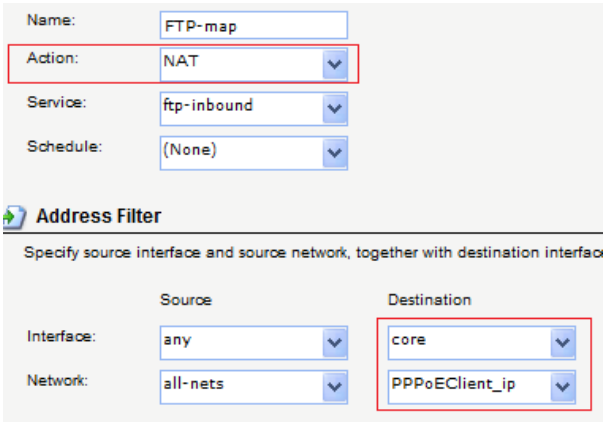


Click **Ok**.

Add a new **IP Rules**

Name: FTP-map
Action: NAT
Service: ftp-inbound

Address Filter:
Source Interface: any
Source Network: all-nets
Destination Interface: core
Destination Network: PPPoEClient_ip



Click **Ok**.
Save and activate the configuration