



Configuration examples for the D-Link NetDefend Firewall series

DFL-210/800/1600/2500
DFL-260/860

Scenario: How to configure Anti-Spam feature on D-Link firewall

Engineer: M.Koninkx, D-Link Benelux

Last update: 2008-01-03

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**.

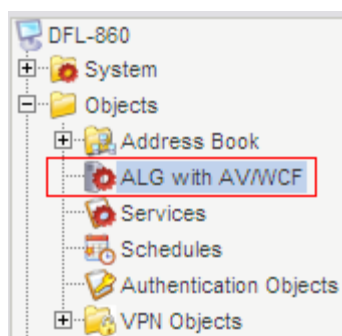
The screenshots in this document is from firmware version 2.20.00. If you are using an earlier version of the firmware, the screenshots may not be identical to what you see on your browser.

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

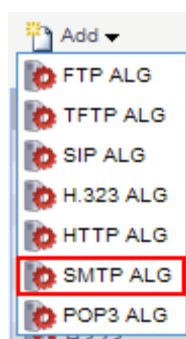
How to configure Anti-Spam on D-Link firewall

This scenario shows how to use the firewall as a spam filter for your mailserver.

Step 1: Go to *Objects* ->*ALG*



Step 2: Add a new SMTP ALG



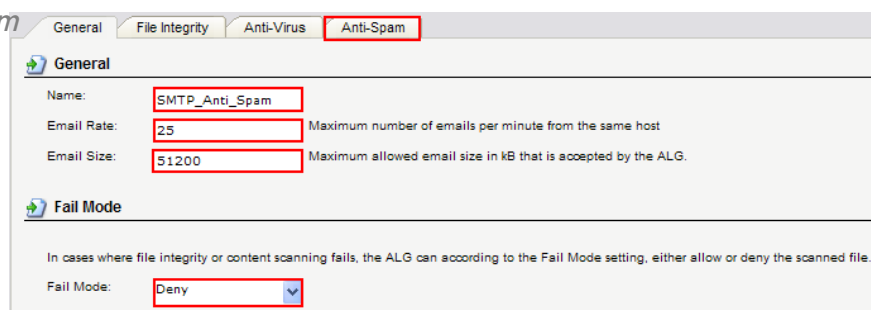
Step 3: Name: *SMTP_Anti_Spam*

Email Rate: *25*

Email Size: *51200*

Fail Mode: *Deny*

Click tab *Anti-Spam*



Settings explained:

E-Mail Rate: This is the amount of email from one host that is allowed per minute

E-Mail Size: The maximum size of a email (body + attachment, amount is in kB)

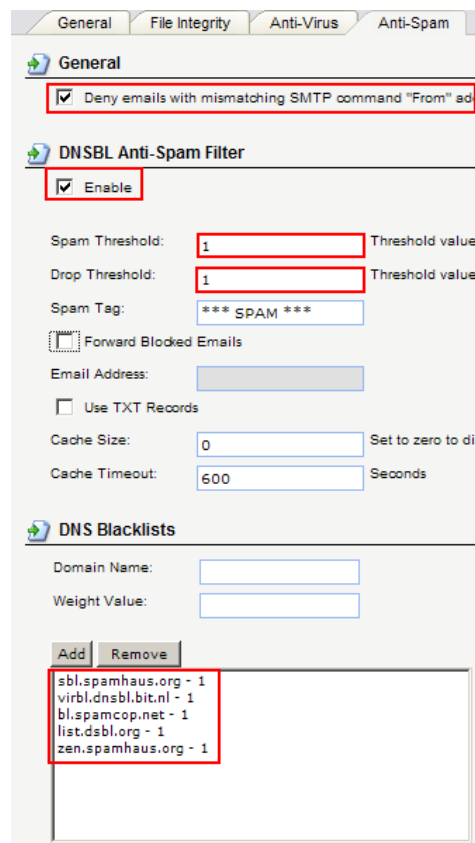
Step 4: General: *Enable* "Deny emails with..."
 DNSBL Anti-Spam Filter: Select *Enable*
 Spam Threshold: *1*
 Drop Threshold: *1*
 Cache Size: *0*
 Cache Timeout: *600*

DNS Blacklists

Add the blacklists you want to use, i.e.

- sbl.spamhaus.org (Weight value 1)
- virbl.dnsbl.bit.nl (Weight value 1)
- bl.spamcop.net (Weight value 1)
- list.dsbl.org (Weight value 1)
- zen.spamhaus.org (Weight value 1)

Click *OK*



Settings Explained:

Weight value: When a mail is marked as spam by the blacklist you've entered, the weight value is stored in memory. When all blacklists have reported back to the firewall if the mail is spam or not, the values of the blacklists that returned "SPAM" will be added together. The total value is matched against the "Spam Threshold" and "Drop Threshold" value. When the value is equal or more then the values set, the mail will either be marked as spam (** SPAM **) or dropped by the ALG.

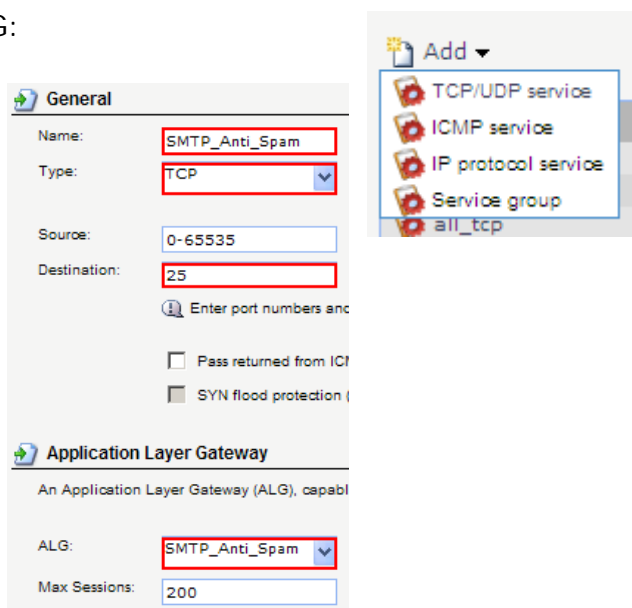
Example:

A spam mail is received by the ALG, the ALG checks all the DNS Blacklists and adds the values returned. We've set the value for "Drop Threshold" to "1", this means that if one of the DNS Blacklists returns a positive value (the mail is spam), it will be dropped.

Step 5: Create a SMTP service with the ALG:

Go to *objects -> Services*
 Add: *TCP/UDP Service*
 Name: *SMTP_Anti_Spam*
 Type: *TCP*
 Destination: *25*
 ALG: *SMTP_Anti_Spam*

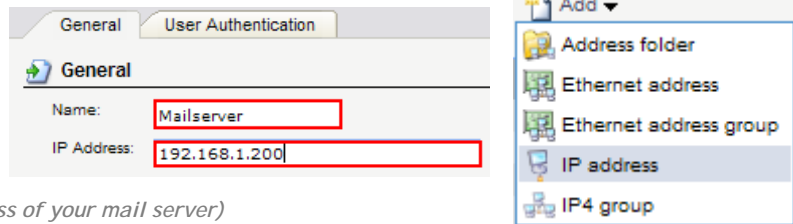
Click *OK*



Step 6: Create a object for your mail server

Go to *Objects -> Address book*

Add: *IP address*



Name: *Mailserver*

IP Address: *192.168.1.200*

(Replace the IP address with the IP address of your mail server)

Click *OK*

Step 7: Go to Rules-> IP Rules

Add *IP Rule Folder*



Name: *Anti_Spam*

Click *OK*



Step 8: Go to Rules-> IP Rules

Add *IP Rule*

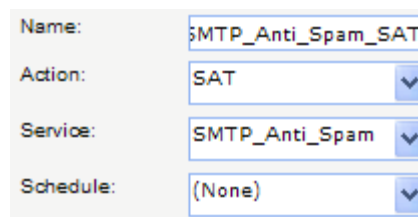


Step 9: In General tab

Name: *SMTP_Anti_Spam_SAT*

Action: *SAT*

Service: *SMTP_Anti_Spam*

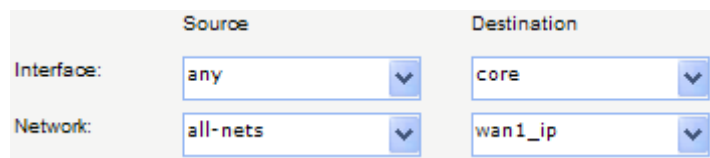


Source Interface: *any*

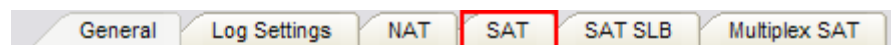
Source Network: *all-nets*

Destination Interface: *core*

Destination Network: *wan1_ip*



Click tab: *SAT*



Translate the: *Destination IP Address*

New IP Address: *Mailserver*



Click *OK*

Step 10: Go to *Rules-> IP Rules*
Add *IP Rule*



Step 11: In *General* tab

Name: *SMTP_Anti_Spam_Allow*
Action: *Allow*
Service: *SMTP_Anti_Spam*

Name:	<input type="text" value="MTP_Anti_Spam_Allow"/>
Action:	<input type="button" value="Allow"/>
Service:	<input type="button" value="SMTP_Anti_Spam"/>
Schedule:	<input type="button" value="(None)"/>

Source Interface: *any*
Source Network: *all-nets*

Destination Interface: *core*
Destination Network: *wan1_ip*

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

Click *OK*

Step 12: Click *Save and Active*

