

D-Link
Building Networks for People

NETDEFEND

SMTP ALG Configuration For DFL-210

Objectives

- To deny users behind the firewall to send e-mail to a particular SMTP e-mail account.

The logic of configuration

- Create SMTP ALG (for HTTP Server)
- Configure SMTP Service to use the configured SMTP ALG
- Configure IP Rule using the configured SMTP Service

2

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SMTP ALG Configuration For DFL-210

- Create SMTP ALG

ALG	Type	Parameters	Comments
FTP ALG	FTP ALG		
SIP ALG	SMTp ALG		
H.323 ALG	FTP ALG	Client in active mode allowed	
HTTP ALG	FTP ALG		
SMTP ALG	FTP ALG	Server in passive mode allowed	
POP3 ALG	FTP ALG	Client in active mode allowed; Server in passive m...	
http-outbound	H.323 ALG		
Strip	HTTP ALG	Strip ActiveX, Strip Java Applets, Strip Scripts	

3

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SMTP ALG Configuration For DFL-210

- Create SMTP ALG

SMTP ALG
Use an SMTP Application Layer Gateway to manage SMTP traffic through the system.

General | File Integrity | Anti-Spam

General

Name: Step 1

Email Rate: Maximum number of emails per minute from the same host

Email Size: Maximum allowed email size in KB that is accepted by the ALG.

Fail Mode

In cases where file integrity or content scanning fails, the ALG can according to the Fail Mode setting, either allow or deny the scanned file.

Fail Mode:

Comments

Comments:

Step 2

4

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- Create SMTP ALG – Add the Recipient e-mail

The screenshot shows the 'Block_DLink' configuration page. On the left is a tree view with categories like System, Address Book, Services, and Rules. The main area has a table with columns 'Action', 'Type', 'Email', and 'Comments'. A red box highlights the 'Add' button and the 'Email Sender/Recipient' link. Another red box highlights the 'Action' column header.

5



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SMTP ALG Configuration For DFL-210

- Create SMTP ALG – Add the Recipient e-mail in Blacklist

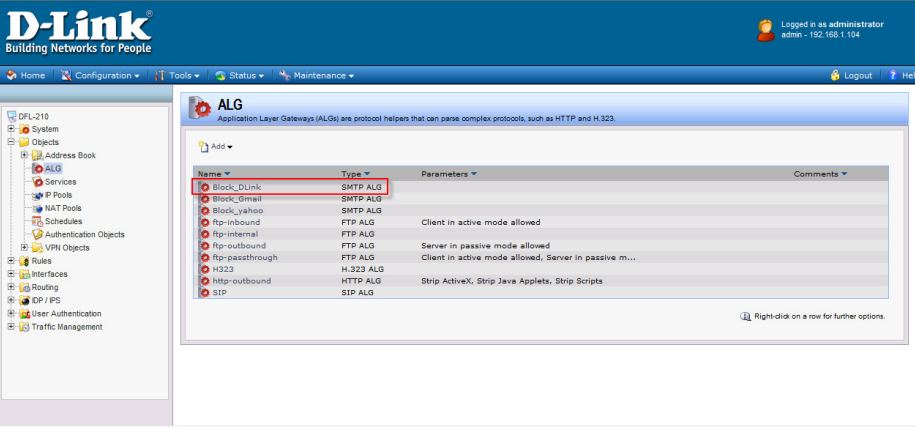
The screenshot shows the 'Email Sender/Recipient' configuration page. It has a 'General' section with radio buttons for 'Sender' and 'Recipient'. The 'Recipient' option is selected and labeled 'Step 1'. Below, there are radio buttons for 'Whitelist' and 'Blacklist', with 'Blacklist' selected and labeled 'Step 2'. An 'Email' text field contains 'test@link.com.es' and is labeled 'Step 3'. At the bottom right, the 'OK' button is labeled 'Step 4'. There is also a 'Comments' text area.

6

SMTP ALG Configuration For DFL-210

- SMTP ALG Created





ALG
Application Layer Gateways (ALGs) are protocol helpers that can parse complex protocols, such as HTTP and H.323.

Name	Type	Parameters	Comments
Block_DLink	SMTP ALG		
Block_Gmail	SMTP ALG		
Block_Yahoo	SMTP ALG		
ftp-inbound	FTP ALG	Client in active mode allowed	
ftp-internal	FTP ALG		
ftp-outbound	FTP ALG	Server in passive mode allowed	
ftp-passthrough	FTP ALG	Client in active mode allowed, Server in passive m...	
H.323	H.323 ALG		
http-outbound	HTTP ALG	Strip ActiveX, Strip Java Applets, Strip Scripts	
SIP	SIP ALG		

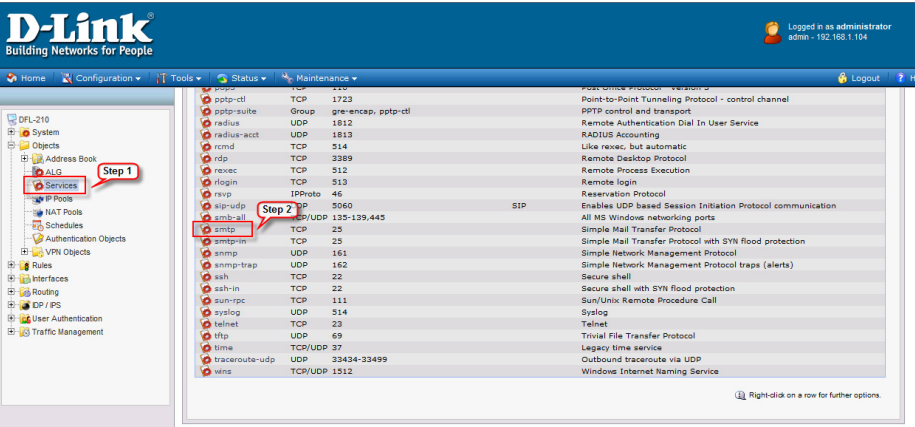
Right-click on a row for further options.

7

SMTP ALG Configuration For DFL-210

- Configure SMTP Service



Services

Name	Type	Parameters	Comments
ppp-ctrl	TCP	1723	Point-to-Point Tunneling Protocol - control channel
ppp-rsult	Group	gre-encap, ppp-ctrl	PPTP control and transport
radius	UDP	1812	Remote Authentication Dial In User Service
radius-acct	UDP	1813	RADIUS Accounting
rcmd	TCP	514	Like rexec, but automatic
rdp	TCP	3389	Remote Desktop Protocol
rexec	TCP	512	Remote Process Execution
rlogin	TCP	513	Remote login
rsvp	IPProto	46	Reservation Protocol
rsync	UDP	863	Enables UDP based Session Initiation Protocol communication
smtp	TCP	25	All MS Windows networking ports
smtp	TCP	25	Simple Mail Transfer Protocol
smtp-in	TCP	25	Simple Mail Transfer Protocol with SYN flood protection
snmp	UDP	161	Simple Network Management Protocol
snmp-trap	UDP	162	Simple Network Management Protocol traps (alerts)
ssh	TCP	22	Secure shell
ssh-in	TCP	22	Secure shell with SYN flood protection
sunrpc	TCP	111	Sun/Unix Remote Procedure Call
syslog	UDP	514	Syslog
telnet	TCP	23	Telnet
ftp	UDP	69	Trivial File Transfer Protocol
time	TCP/UDP	37	Legacy time service
traceroute-udp	UDP	33434-33499	Outbound traceroute via UDP
wins	TCP/UDP	1512	Windows Internet Naming Service

Right-click on a row for further options.

8

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SMTP ALG Configuration For DFL-210

- Configure SMTP Service to use the Created SMTP ALG

9

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SMTP ALG Configuration For DFL-210

- SMTP Service Configured

Name	Type	Source	Destination	Application Layer Gateway (ALG)	Comments
smtp	TCP	0-65535	25	Block_DLink	Simple Mail Transfer Protocol

10

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SMTP ALG Configuration For DFL-210

- Create IP Rule

D-Link Building Networks for People Logged in as administrator
admin - 192.168.1.104

Home Configuration Tools Status Maintenance Logout Help

DFL-210

- System
- Objects
 - Address Book
 - ALG
 - Services
 - IP Pools
 - NAT Pools
 - Schedules
 - Authentication Objects
 - VPN Objects
- Rules
 - IP Rules
 - lan_to_wan **Step 1**
 - lan_to_dmz
 - dmz_to_lan
 - dmz_to_wan
 - wan_to_lan
 - wan_to_dmz
 - Access
 - Interfaces
 - Routing

lan_to_wan
An IP Rule folder can be used to group IP Rules into logical groups for better overview and simplified management.

Add Edit this object

Step 2

Name	Action	Source interface	Source network	Destination interface	Destination network	Service
1 drop_smb-all	Drop	lan	lan-net	wan	all-nets	smb-all
2 allow_ping-outbound	NAT	lan	lan-net	wan	all-nets	ping-outbound
3 allow_ftps-passthrough	NAT	lan	lan-net	wan	all-nets	ftp-passthrough
4 allow_standard	NAT	lan	lan-net	wan	all-nets	all_tcpudpicmp

Right-click on a row for further options.

11

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SMTP ALG Configuration For DFL-210

- Create IP Rule to use the configured SMTP Service

D-Link Building Networks for People Logged in as administrator
admin - 192.168.1.104

Home Configuration Tools Status Maintenance Logout Help

DFL-210

- System
- Objects
 - Address Book
 - ALG
 - Services
 - IP Pools
 - NAT Pools
 - ALG
 - Services
 - IP Pools
 - NAT Pools
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 - VPN Objects
- Rules
 - IP Rules
 - lan_to_wan
 - lan_to_dmz
 - dmz_to_lan
 - dmz_to_wan
 - wan_to_lan
 - wan_to_dmz
 - Access
 - Interfaces
 - Routing

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

General Log Settings NAT SAT Multiplex SAT

General

Name: **Block_email** **Step 1**

Action: NAT

Service: smtp

Schedule: (None)

Address Filter
Specify source interface and source network, together with destination interface and destination network. All parameters have to match for the rule to match.

Source Destination

Interface: lan any **Step 2**

Network: all-nets all-nets



Comments

Comments:

Step 3

OK Cancel

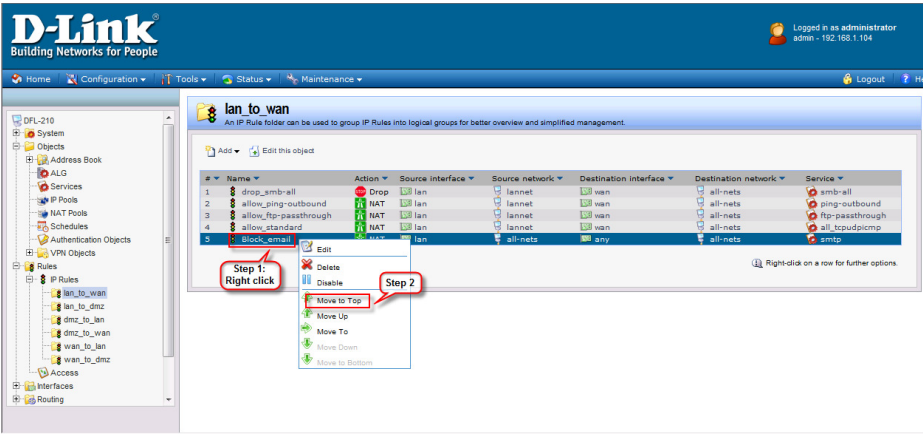
12

SMTP ALG



Configuration For DFL-210

- Move the created IP Rule to the top of the Rule



#	Name	Action	Source interface	Source network	Destination interface	Destination network	Service
1	drop_smb-all	Drop	lan	lan-net	wan	all-nets	smb-all
2	allow_ping-outbound	NAT	lan	lan-net	wan	all-nets	ping-outbound
3	allow_ftps-passthrough	NAT	lan	lan-net	wan	all-nets	ftp-passthrough
4	allow_standard	NAT	lan	lan-net	wan	all-nets	all_tcpudpicmp
5	Block_email	NAT	lan	all-nets	any	all-nets	smtp

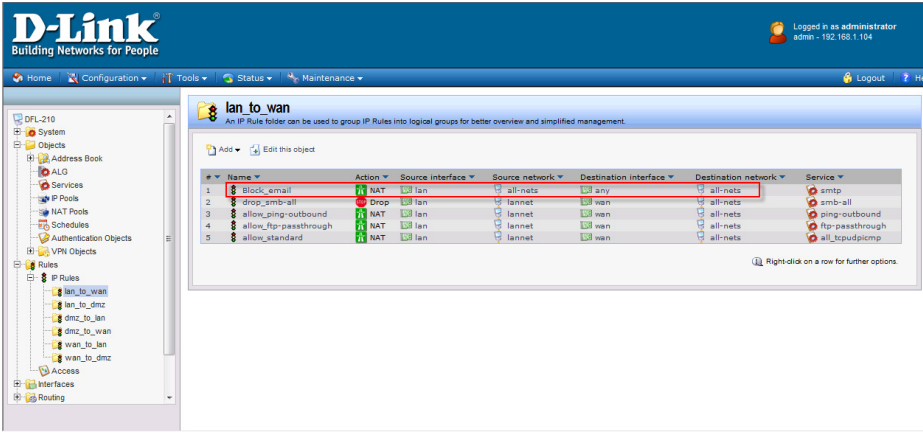
13

SMTP ALG

Configuration For DFL-210

- IP Rule created and move to the top of the Rule



#	Name	Action	Source interface	Source network	Destination interface	Destination network	Service
1	Block_email	NAT	lan	all-nets	any	all-nets	smtp
2	drop_smb-all	Drop	lan	lan-net	wan	all-nets	smb-all
3	allow_ping-outbound	NAT	lan	lan-net	wan	all-nets	ping-outbound
4	allow_ftps-passthrough	NAT	lan	lan-net	wan	all-nets	ftp-passthrough
5	allow_standard	NAT	lan	lan-net	wan	all-nets	all_tcpudpicmp

14

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SMTP ALG Configuration For DFL-210

- Save and Activate the configuration

#	Name	Action	Source interface	Source network	Destination interface	Destination network	Service
1	Block_email	NAT	lan	all-nets	any	all-nets	smtp
2	drop_smb-all	Drop	lan	lan-net	wan	all-nets	smb-all
3	allow_ping-outbound	NAT	lan	lan-net	wan	all-nets	ping-outbound
4	allow_ftp-passthrough	NAT	lan	lan-net	wan	all-nets	ftp-passthrough
5	allow_standard	NAT	lan	lan-net	wan	all-nets	all_tcpudpicmp

15

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SMTP ALG Configuration For DFL-210

- Click "OK to Confirm"

16