

D-Link
Building Networks for People

NETDEFEND

URL Filter Configuration For DFL-210

Objectives

- To allow users access only to some specific Web site (White list).
- To block users access to all other Web site (Black list).

The logic of configuration

- Create White list and Black list Web site
- Configure HTTP Outbound Service
- Configure IP Rules to apply White and Black list

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URL Filter Configuration For DFL-210

- Create White list and Black List

Application Layer Gateways

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

#	Name	Type	Parameters	Comments
0	http-outbound	ALG_HTTP	Strip ActiveX, Strip Java Applets, Strip Scripts	
1	ftp-inbound	ALG_FTP	Client in active mode allowed	
2	ftp-outbound	ALG_FTP	Server in passive mode allowed	
3	ftp-passsthrough	ALG_FTP	Client in active mode allowed, Server in passive m...	
4	ftp-internal	ALG_FTP		
5	H323	ALG_H323		

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URL Filter Configuration For DFL-210

- Create White list and Black List

http-outbound

Use an HTTP Application Layer Gateway to filter HTTP traffic.

[Add](#)

#	Action	URL	Comments
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- Create White list

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URL Filter Configuration For DFL-210

- Create White list and Black List

Action	URL	Comments
Whitelist	*.dlink.com/*	

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URL Filter Configuration For DFL-210

- Create Black List

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URL Filter Configuration For DFL-210

- White list and Black List Created

#	Action	URL	Comments
0	Whitelist	*.dlink.com/*	
1	Blacklist	*.*.*/*	

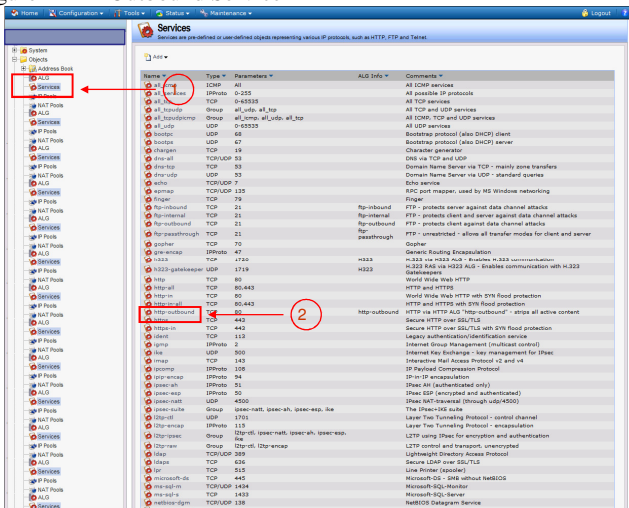
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URL Filter



Configuration For DFL-210

- Configure HTTP Outbound Service



Services

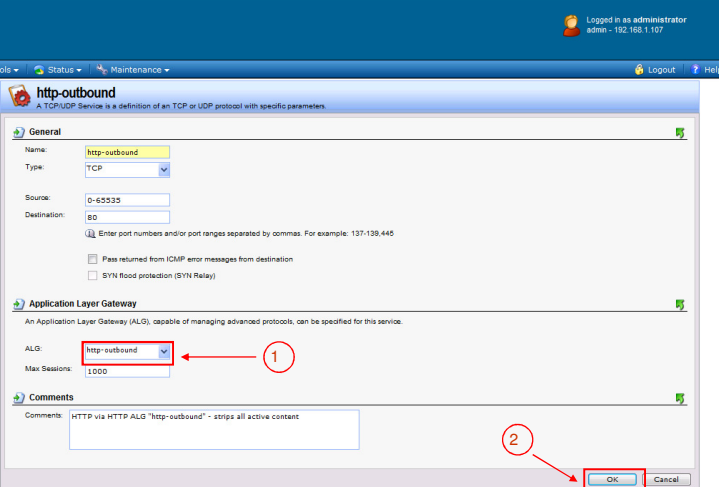
Service	Type	Parameters	ALG Info	Comments
all	ICMP	48		All ICMP protocols
all_tcp	TCP	0-255		All TCP services
all_udp	UDP	0-65535		All UDP services
all_icmp	Group	all_icmp, all_tcp, all_udp		All ICMP, TCP and UDP services
bootp	UDP	0-65535		Bootstrap protocol (also DHCP) client
bootps	UDP	67		Bootstrap protocol (also DHCP) server
chargen	TCP	19		Character generator
csync	TCP/UDP	53		DNS via TCP and UDP
csync-udp	UDP	53		Domain Name Server via UDP - mainly zone transfers
echo	TCP/UDP	7		Domain Name Server via TCP - standard queries
echo-udp	UDP	7		Echo service
exec	TCP/UDP	135		RPC port mapper, used by MS Windows networking
finger	TCP	79		Finger
ftp	TCP	21		FTP - protects server against data channel attacks
ftpproxy	TCP	21		FTP - protects client and server against data channel attacks
ftps	TCP	21		FTP - protects client against data channel attacks
ftps-ssl	TCP	21		FTP - compressed + secure all transfer modes for client and server
gopher	TCP	70		Gopher
gopher-ssl	TCP	70		Gopher
h223	TCP	1713		H.223 via H.223 ALG - function: H.223 communication
h223-ssl	TCP	1713		H.223 via H.223 ALG - encrypted communication with H.223
h281	UDP	1719		H.281 via H.281 ALG - SIP-RTP communication with H.281
h281-ssl	UDP	1719		H.281 via H.281 ALG - encrypted communication with H.281
h323	TCP	1719		H.323 via H.323 ALG - function: H.323 communication
h323-ssl	TCP	1719		H.323 via H.323 ALG - encrypted communication with H.323
h323-gatekeeper	UDP	1719		H.323 via H.323 ALG - function: H.323 communication
h323-gatekeeper-ssl	UDP	1719		H.323 via H.323 ALG - encrypted communication with H.323
http	TCP	80		HTTP and HTTPS
https	TCP	80		HTTP and HTTPS
http-ssl	TCP	80		HTTP and HTTPS
https-ssl	TCP	80		HTTP and HTTPS
http-outbound	TCP	80,443		HTTP-outbound
https-outbound	TCP	80,443		HTTPS-outbound
https-ssl-outbound	TCP	443		HTTPS-SSL-outbound
ident	TCP	113		Ident
irc	TCP	194		Internet Relay Chat
irc-ssl	TCP	194		Internet Relay Chat - encrypted and authenticated
irc-ssl-ssl	TCP	194		Internet Relay Chat - encrypted and authenticated
irc-ssl-ssl-ssl	TCP	194		Internet Relay Chat - encrypted and authenticated
irc-ssl-ssl-ssl-ssl	TCP	194		Internet Relay Chat - encrypted and authenticated
irc-ssl-ssl-ssl-ssl-ssl	TCP	194		Internet Relay Chat - encrypted and authenticated
irc-ssl-ssl-ssl-ssl-ssl-ssl	TCP	194		Internet Relay Chat - encrypted and authenticated
irc-ssl-ssl-ssl-ssl-ssl-ssl-ssl	TCP	194		Internet Relay Chat - encrypted and authenticated
irc-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl	TCP	194		Internet Relay Chat - encrypted and authenticated
irc-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl	TCP	194		Internet Relay Chat - encrypted and authenticated
irc-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl	TCP	194		Internet Relay Chat - encrypted and authenticated
irc-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl	TCP	194		Internet Relay Chat - encrypted and authenticated
irc-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl	TCP	194		Internet Relay Chat - encrypted and authenticated
irc-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl	TCP	194		Internet Relay Chat - encrypted and authenticated
irc-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl	TCP	194		Internet Relay Chat - encrypted and authenticated
irc-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl	TCP	194		Internet Relay Chat - encrypted and authenticated
irc-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl-ssl	TCP	194		Internet Relay Chat - encrypted and authenticated

URL Filter

Configuration For DFL-210

- Configure HTTP Outbound Service



http-outbound
A TCP/UDP Service is a definition of an TCP or UDP protocol with specific parameters.

General

Name: http-outbound
 Type: TCP
 Source: 0-65535
 Destination: 80
 Pass returned from ICMP error messages from destination
 SYN flood protection (SYN Relay)

Application Layer Gateway
An Application Layer Gateway (ALG), capable of managing advanced protocols, can be specified for this service.

ALG: http-outbound
 Max Sessions: 1000

Comments
HTTP via HTTP ALG "http-outbound" - strips all active content

OK Cancel

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Configuration For DFL-210

- Configure IP Rules to apply HTTP Outbound Service

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URL Filter

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- Configure IP Rules to apply HTTP Outbound Service

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Configuration For DFL-210

- Configure IP Rules to apply HTTP Outbound Service

The screenshot shows the configuration page for the IP rule 'allow_standard'. The 'General' tab is active. The 'Service' dropdown menu is set to 'http-outbound', which is highlighted with a red box and a red circle containing the number '1'. At the bottom right, the 'OK' button is highlighted with a red box and a red circle containing the number '2'. The 'Address Filter' section shows source interface 'lan' and destination interface 'wan'.

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Configuration For DFL-210

After all configuration , Click “configuration” on main menu bar

- Click “Save and Activate”

The screenshot shows the 'lan_to_wan' IP rule folder configuration page. A table lists several rules. The rule 'allow_standard' is highlighted with a red box, and its 'Service' column is set to 'http-outbound'. In the top navigation bar, the 'Configuration' menu is open, and the 'Save and Activate' option is circled with a red circle containing the number '1'.

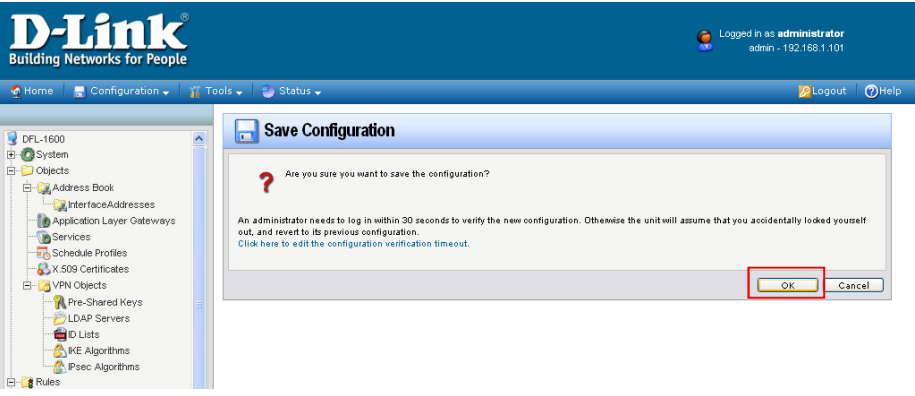
#	Name	Action	Source Interface	Source Network	Destination Interface	Destination Network	Service
0	drop_rmb-all	Drop	lan	laninet	wan	all-nets	rmb-all
1	allow_ping-outbound	NAT	lan	laninet	wan	all-nets	ping-outbound
2	allow_ftp-passsthrough	NAT	lan	laninet	wan	all-nets	ftp-passsthrough
3	allow_standard	NAT	lan	laninet	wan	all-nets	http-outbound

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Configuration For DFL-210

- Click "OK"

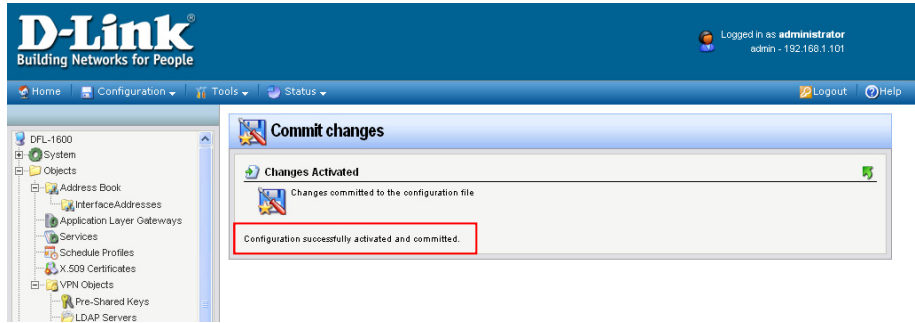


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- Change Activated



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