

D-Link Firewall 2.30.01 - Opera

Файл Правка Вид Закладки Виджеты Инструменты Справка

Запр... web... Коф... D-Link ftp:/... Ком... Сет... NAS ... Ком... D-Li... D-Li... D-Li... Эксп...

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admin - 192.168.0.109

Home Configuration Tools Status Maintenance Logout Help

DFL-260E

System

- Date and Time
- DNS
- Remote Management
- Log and Event Receivers
- DHCP**
 - DHCP Servers
 - DHCPServer
 - DHCPServer_VLAN2
 - DHCP Relays
- Misc. Clients
- Hardware Monitoring
- Whitelist
- Advanced Settings

Objects

- Address Book**
 - DHCP
 - InterfaceAddresses
 - Local_IP
 - Local_MAC
 - PPTP
 - VLAN
- ALG with AV/WCF
- Services
- IP Pools

System Status

Model:	DFL-260E
System Time:	2011-07-29 22:23:54
Uptime:	5 days, 22:34:09
Configuration:	Version 199
Firmware Version:	2.30.01.08-15905 May 12 2011
Last Restart:	2011-07-29 20:23:27: Activating configuration changes
IDP Signatures:	23071 Signatures Last updated 2011-07-15 17:08:16
AV Signatures:	4000 Signatures Last updated 2011-07-28 13:00:06

Resources

CPU Load:	2%
RAM:	129 / 256 MB
Connections:	1028 / 25000
IPsec:	0 / 100
PPP:	1 / 100
VLAN:	1 / 8
Rules:	28 / 500

Пример настройки маршрутизатора D-Link DFL-260E под домашние нужды.
Интернет по PPPoE; несколько ресурсов, доступных из Интернета; VPN сервер; гостевая сеть.

Схема взаимосвязей находится на последней странице.

Rules

Interfaces

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DNS

Configure the DNS (Domain Name System) client settings.

General

General

Primary Server: wan_dns1

Secondary Server: wan_dns2

Tertiary Server: (None)

Comments

Comments:

wan_dns1 и wan_dns2 подхватываются от провайдера по PPPoE автоматически.

OK Cancel

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Remote Management

Setup and configure method

Add Advanced Settings

Стандартная настройка, только включено управление по HTTP

#	Name	Type	Mode	Interface	Network	Comments
1	RemoteMgmtHTTP	HTTP/HTTPS Management	Admin: HTTP, HTTPS	lan	lannet	
2	SSH	SSH Management	Admin: Password, Public Key	lan	lannet	

Для управления по SSH (через putty.exe)

Right-click on a row for additional options.

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DHCP Servers

Add, remove and configure DHCP servers

Add Advanced Settings

#	Name	Interface	Relay Filter	IP Address Pool	Netmask	Enable logging	Comments
1	DHCPServer	lan	0.0.0.0/0	dhcp_range	dhcp_netmask	Yes	
2	DHCPServer_VLAN2	VLAN2	0.0.0.0/0	VLAN2_dhcp_range	dhcp_netmask	Yes	

Right-click on a row for additional options.

DHCP сервер локальной сети

DHCP сервер для гостевой зоны (через VLAN2)

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DHCP Server
A DHCP Server determines a set of IP addresses and host configuration parameters to hand out to DHCP clients attached to a given interface.

General Options Log Settings

General

Default GW: lan_ip

Domain:

Lease Time: 864000 seconds

DNS: Primary: wan_dns1 Secondary: wan_dns2

NBNS/WINS: (None) (None)

Next Server: (None)

OK Cancel

Не забываем прописать DNS, которые будут передаваться клиентам

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IP Settings
Settings related to the IP protocol.

General

General

Log Checksum Errors:	<input checked="" type="checkbox"/>	Log IP packets with bad checksums.
Log non IP4:	<input checked="" type="checkbox"/>	Log occurrences of non-IPv4 packets.
Log Received TTL 0:	<input checked="" type="checkbox"/>	Log received packets with TTL=0; this should never happen!
Log 0.0.0.0 Src:	Drop	Log invalid 0.0.0.0 source address.
Block 0 Net:	DropLog	
Block 127 Net:	DropLog	
Block Multicast SRC:	DropLog	
TTL Min:	1	The minimum IP Time-To-Live value accepted on receipt.
Multicast TTL Min:	3	The minimum IP multicast Time-To-Live value accepted on receipt.
TTL on Low:	Log	What action to take on too low unicast TTL values.
Multicast TTL on Low:	DropLog	What action to take on too low multicast TTL values.
Default TTL:	255	The default IP Time-To-Live of packets originated by the security gateway (32-255).
Layer Size Consistency:	ValidateLogBad	TCP/UDP/ICMP/etc layer data and header sizes matching lower layer size information.
SecuRemoteUDP Compatibility:	<input type="checkbox"/>	Allow IP data to contain eight bytes more than the UDP total length field specifies -- Checkpoint SecuRemote violates NAT-T drafts.
IP Option Sizes:	ValidateLogBad	Validity of IP header option sizes.
IP Option Source/Return:	DropLog	How to handle IP packets with contained source or return routes.
IP Option Treatment:	Drop	Handle bad IP packets with contained Source/Return

Для работы трассировки маршрута (tracert)

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DHCP

An address folder can be used to group related address objects for better overview.

Add Edit this object

#	Name	Address	User Auth Groups	Comments
1	dhcp_range	192.168.0.100-192.168.0.120		
2	dhcp_netmask	255.255.255.0		

Адреса для DHCP сервера локальной сети

Right-click on a row for additional options.

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InterfaceAddresses

An address folder can be used to group related address objects for better overview.

Add Edit this object

#	Name	Address	User Auth Group	Comments
1	wan_ip	0.0.0.0		
2	wannet	0.0.0.0/0		
3	wan_dns1	0.0.0.0		
4	wan_dns2	0.0.0.0		
5	lan_ip	192.168.0.10		IPAddress of interface lan
6	lanet	192.168.0.0/24		The network on interface lan
7	dmz_ip	172.17.100.254		IPAddress of interface dmz
8	dmznet	172.17.100.0/24		The network on interface dmz
9	wan_phys_ip	0.0.0.0		IP address of interface wan_phys
10	wan_physnet	0.0.0.0		Network on interface wan_phys
11	Marino_Net_ip	0.0.0.0		IP address received from PPPoE client Marino_Net.

Тут настроена только локальная сеть (изначально 192.168.10.0/24)

Адрес создан автоматически, при работающем PPPoE соединении содержит внешний IP

Right-click on a row for additional options.

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Local_IP

An address folder can be used to group related address objects for better overview.

Add Edit this object

#	Name	Address	User Auth Groups	Comments
1	rubanovsa_ip	192.168.0.101		
2	rubanovsa_wifi_ip	192.168.0.109		
3	iPAD_ip	192.168.0.102		
4	AXIS_1031W_ip	192.168.0.104		
5	DIR_300_ip	192.168.0.100		
6	RSA_ip	192.168.0.110		

Адреса локальных клиентов

Right-click on a row for additional options.

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PPTP

An address folder can be used to group related address objects for better overview.

Add Edit this object

#	Name	Address	User Auth Groups	Comments
1	pptp_ippool	192.168.0.120-192.168.0.130		

Right-click on a row for additional options.

Пул адресов для подключаемых клиентов по VPN каналу

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VLAN
An address folder can be used to group related address objects for better overview.

Add Edit this object

#	Name	Address	User Auth Groups	Comments
VLAN 2				
1	VLAN2_ip	192.168.2.10		Адреса для гостевой сети на VLAN2
2	VLAN2_net	192.168.2.0/24		
3	VLAN2_dhcp_range	192.168.2.11-192.168.2.20		
4	All_lan_net	lanenet, VLAN2_net		Группа «Все локальные сети», содержащая локальную сеть и гостевую (для IP правил).

Right-click on a row for additional options.

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87	pptp-ctl	TCP	1723		Point-to-Point Tunneling Protocol - control channe...
88	wcf	TCP	9998		Web Content Filtering
89	ftp-inbound	TCP	21	ftp-inbound	FTP - protects server against data channel attacks
90	ftp-outbound	TCP	21	ftp-outbound	FTP - protects client against data channel attacks
91	ftp-passthrough	TCP	21	ftp-passthrough	FTP - unrestricted - allows all transfer modes for...
92	h323	TCP	1720	H323	H.323 via H323 ALG - Enables H.323 communication
93	h323-gatekeeper	UDP	1719	H323	H.323 RAS via H323 ALG - Enables communication wit...
		TCP	21	ftp-internal	FTP - protects client and server against data chan...
					Enables UDP based
95	sip-udp	UDP			
New services					
96	AXIS_1031W	TCP/UDP			
97	wol		9		Wake On LAN
98	http-guests	TCP	80	http-guests - AV:Protect, WCF:Enabled	HTTP via HTTP ALG. Anti-virus and Web Content Filt...
99	uTorrent_RSA	TCP/UDP	34186		
100	uTorrent_ruband...	TCP/UDP	30941		

Right-click on a row for additional options.

Сервис для доступа к IP камере

Сервис http протокола для гостевой зоны с ALG ограничением

Для ручного проброса портов доступа торрента на два компьютера (по UPnP торренты работают, но как-то медленно, после ручного проброса отдача резко выросла)

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lan_to_wan
An IP Rule Folder can be used to group

Add Edit this object

Разрешим исходящие VPN соединения с компьютеров

Направляем основные потоки через сервисы с ALG – антивирус и фильтрация адресов для http

#	Name	Action	Source interface	Source network	Destination interface	Destination network	Service
1	drop_smb-all	Drop	lan	lan	lan	lan	smb-all
2	http_av	NAT	lan	lan	lan	lan	http-outbound-a
3	pop3_av	NAT	lan	lan	lan	lan	pop3-inbound-a
4	smtp_av	NAT	lan	lan	lan	lan	smtp-inbound-a
5	allow_ping-outbound	NAT	lan	lan	lan	lan	ping-outbound
6	allow_ftp-passthrough_av	NAT	lan	lan	lan	lan	ftp-passthrough
7	pptp_connect	NAT	lan	lan	lan	lan	pptp-suite
8	http_guests	NAT	VLAN2	VLAN2_net	lan	lan	http-guests
9	allow_standard	NAT	All_lan	All_lan_net	lan	lan	all_tcpudp

Для гостей доступ к http через настроенный сервис с ALG

Right-click on a row for additional options

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SSL VPN Interface
Switch Management

Port Mapping

An IP Rule Folder can be used to group rules for better overview and simplified management.

Add Edit this object

For the purpose of port mapping, the following rules are configured:

#	Name	Source interface	Source	Destination	Service	Action
AXIS						
1	AXIS_1031W	SAT	Marino_Net	all-nets	core	Marino_Net_ip
2	AXIS_1031W	Allow	Marino_Net	all-nets	core	Marino_Net_ip
3	AXIS_1031W_lan	SAT	lan	lan-net	core	Marino_Net_ip
4	AXIS_1031W_lan	NAT	lan	lan-net	core	Marino_Net_ip
RSA RDP						
5	RSA_RDP	SAT	Marino_Net	all-nets	core	Marino_Net_ip
6	RSA_RDP	Allow	Marino_Net	all-nets	core	Marino_Net_ip
7	RSA_RDP_lan	SAT	lan	lan-net	core	Marino_Net_ip
8	RSA_RDP_lan	NAT	lan	lan-net	core	Marino_Net_ip
RSA FTP						
9	RSA_FTP	SAT	Marino_Net	all-nets	core	Marino_Net_ip
10	RSA_FTP	Allow	Marino_Net	all-nets	core	Marino_Net_ip
11	RSA_FTP_lan	SAT	lan	lan-net	core	Marino_Net_ip
12	RSA_FTP_lan	NAT	lan	lan-net	core	Marino_Net_ip
RSA uTorrent						
13	uTorrent	SAT	Marino_Net	all-nets	core	Marino_Net_ip
14	uTorrent	Allow	Marino_Net	all-nets	core	Marino_Net_ip
RUBANOVSA uTorrent						
15	uTorrent_rubnovsa	SAT	Marino_Net	all-nets	core	Marino_Net_ip
16	uTorrent_rubnovsa	Allow	Marino_Net	all-nets	core	Marino_Net_ip

Проброс портов для доступа из Интернет к локальным ресурсам.
Для каждого ресурса указывается сервис и в SAT его локальный адрес

Для доступа по внешним адресам из локальной сети

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pptp_server

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

Add Edit this object

#	Name	Action	Source interface	Source network	Destination interface	Destination network	Service
1	fromPPTPclients	Allow	VPN_Server	pptp_ippool	lan	lannet	all_services
2	toPPTPclients	Allow	lan	lannet	VPN_Server	pptp_ippool	all_services

Right-click on a row for additional options.

Делаем доступной локальную сеть для подключенных клиентов по VPN

D-Link Firewall 2.30.01 - Opera

Файл Правка Вид Закладки Виджеты Инструменты Справка

Запр... web... Коф... D-Link ftp:/... Ком... Сет... NAS ... Ком... D-Li... D-Li... D-Li... Эксп...

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Building Networks for People

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admin - 192.168.0.109

Home Configuration Tools Status Maintenance Logout Help

VLAN2
Use a VLAN to define a virtual interface compatible with the IEEE 802.1Q Virtual LAN standard.

General Advanced

General

Name: VLAN2
Interface: lan
VLAN ID: 2

Address Settings

IP address: VLAN2_ip
Network: VLAN2_net
Default Gateway: VLAN2_ip

☐ Enable transparent mode

Comments

Comments: Guests vlan

OK Cancel

VLAN2 – гостевая сеть 192.168.2.0/24 с урезанным доступом в Интернет, без доступа в основную локальную сеть.

VLAN2 далее будет прописан на один из портов свитча. В него втыкаем Wi-Fi точку и получаем гостевую зону.

D-Link Firewall 2.30.01 - Opera

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- LOCAL_MAC
- PPTP
- VLAN
- ALG with AV/WCF
- Services
- IP Pools
- NAT Pools
- Schedules
- Authentication Objects
- VPN Objects
- HTTP Banner Files
- Rules
 - IP Rules
 - lan_to_wan
 - Port_mapping
 - pptp_server
 - Access
- Interfaces
 - Ethernet
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 - PPPoE
 - PPTP/L2TP Servers
 - PPTP/L2TP Clients
 - SSL VPN Interface
 - Switch Management

Marino_Net

A PPPoE interface is a PPP (point-to-point protocol) tunnel over an existing physical Ethernet interface. Its IP address is dynamically assigned.

General Authentication Dial-on-demand Advanced

General

Name: Marino_Net

Physical Interface: wan_phys

Remote Network: wannet

Schedule: (None)

Доступ в Интернет через PPPoE.
Кроме пользователя/пароля ничего особо не настраивалось.

Authentication

Username: admin

Password: Note! Existing passwords will always be shown with 8 characters to hide the actual length.

Confirm Password:

Service Name:

Comments

Comments: PPPoE provider Maryno.Net

OK Cancel

D-Link Firewall 2.30.01 - Opera

Файл Правка Вид Закладки Виджеты Инструменты Справка

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VPN_Server
A PPTP/L2TP server interface terminates PPP (Point to Point Protocol) tunnels set up over existing IP networks.

General PPP Parameters Add Route

General

Name: VPN_Server

Inner IP Address: lan_ip

Tunnel Protocol: PPTP

Outer Interface Filter: Marino_Net

Server IP: Marino_Net_ip

Comments

Comments:

Поднимаем VPN (PPTP) сервер для возможности подключения к локальной сети из любого места, где есть Интернет.

OK Cancel

Local_MAC
PPTP
VLAN
ALG with AV/WCF
Services
IP Pools
NAT Pools
Schedules
Authentication Objects
VPN Objects
HTTP Banner Files
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IP Rules
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Switch Management

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Файл Правка Вид Закладки Виджеты Инструменты Справка

Запр... web... Коф... D-Link ftp:/... Ком... Сет... NAS ... Ком... D-Li... D-Li... D-Li... Эксп...

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 - SSL VPN Interface
 - Switch Management

VPN_Server

A PPTP/L2TP server interface terminates PPP (Point to Point Protocol) tunnels set up over existing IP networks.

General PPP Parameters Add Route

General

Specify if User Authentication Rules are to be used, and the encryption strengths allowed. Also specify the IP address assignment and the DNS/WINS server information to hand out to connected clients.

☒ Use User Authentication Rules

Microsoft Point-to-Point Encryption (MPPE)

☒ None
☒ RC4 40 bit
☒ RC4 56 bit
☒ RC4 128 bit
☐ Stateful MPPE (less secure, use only for testing)

IP Pool

IP Pool: pptp_ipool

DNS: wan_dns1 wan_dns2

NBNS/WINS: (None) (None)

Пул адресов для VPN клиентов

Выдаем DNS для доступа к Интернет через VPN

D-Link Firewall 2.30.01 - Opera

Файл Правка Вид Закладки Виджеты Инструменты Справка

Запр... web... Коф... D-Link ftp:/... Ком... Сете... NAS ... Ком... D-Li... D-Li... D-Li... Эксп...

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Rules

- IP Rules
 - lan_to_wan
 - Port_mapping
 - pptp_server
- Access
- Interfaces**
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 - Switch Management
 - Interface Groups
 - ARP
- Routing
 - Routing Tables
 - main
 - Routing Rules
 - IGMP
 - IGMP Rules
 - IGMP Interface Settings
 - Advanced Multicast Settings

Switch Management
The LAN switch ports can be assigned individually to VLAN's to make it possible to separate the LAN network into more than one zone.

General

Port based VLAN

Please note that enabling "Port based VLAN" will prevent 802.1Q tagged packets from being forwarded on the switch ports. Ports that are not assigned to a VLAN interface will by default be assigned to VLAN 1.

☒ Enable Port based VLAN

Port 1: (None)

Port 2: (None)

Port 3: (None)

Port 4: (None)

Port 5: VLAN2

Созданную VLAN2 прикрепляем к 5 порту свитча, в который втыкается Wi-Fi точка доступа.

OK Cancel

D-Link Firewall 2.30.01 - Opera

Файл Правка Вид Закладки Виджеты Инструменты Справка

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Interface Groups

Use interface groups to combine several interfaces for simplified policy management.

Add

#	Name	Members	Comments
1	All_lan	lan, VLAN2	lan + VLANs

Right-click on a row for additional options.

Rules

- IP Rules
 - lan_to_wan
 - Port_mapping
 - pptp_server
- Access
- Interfaces
 - Ethernet
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 - Routing Tables
 - main
 - Routing Rules
 - IGMP
 - IGMP Rules
 - IGMP Interface Settings
 - Advanced Multicast Settings

Группа интерфейсов, содержащая физический LAN и виртуальный VLAN2 (используется в IP правилах)

D-Link Firewall 2.30.01 - Opera

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- IDP / IPS
 - IDP Signatures
 - IDP Rules
- User Authentication
 - Local User Databases
 - AdminUsers
 - External User Databases
 - Accounting Servers
 - User Authentication Rules
 - Authentication Settings
- Traffic Management
 - Traffic Shaping
 - Pipes
 - Pipe Rules

pptp_server

The User Authentication Ruleset specifies from where users are allowed to authenticate to the system, and how.

General Log Settings Authentication Options Accounting Agent Options Restrictions

General

Name: pptp_server

Authentication agent: L2TP/PPTP/SSL VP

Authentication Source: Local

Interface: VPN_Server

Originator IP: all-nets

Terminator IP: Marino_Net_ip

For XAuth and PPP, this is the tunnel originator IP.

Настраиваем правила авторизации для VPN клиентов.
В качестве базы пользователей – локальная (пока один admin)

Comments

Comments:

OK Cancel

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Запр... web... Коф... D-Link ftp:/... Ком... Сете... NAS ... Ком... D-Li... D-Li... D-Li... Эксп...

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Pipes

Pipes are used as regulators for network traffic flowing through the system.

Add

#	Name	Grouping	Network size	Total bandwidth limit	Total packet per second limit	Comments
Guests						
1	html_guest_in	None	2000			Traffic from Internet (for guests)
2	html_guest_out	None	1000			Traffic to Internet (for guests)

Right-click on a row for additional options.

Каналы для ограничения трафика для гостевой зоны

D-Link Firewall 2.30.01 - Opera

Файл Правка Вид Закладки Виджеты Инструменты Справка

Запр... web... Коф... D-Link ftp:/... Ком... Сет... NAS ... Ком... D-Li... D-Li... D-Li... Эксп...

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 - IDP Rules
- User Authentication
 - Local User Databases
 - AdminUsers
 - External User Databases
 - Accounting Servers
 - User Authentication Rules
 - Authentication Settings
- Traffic Management
 - Traffic Shaping
 - Pipes
 - Pipe Rules

Guests

A Pipe Rule determines traffic shaping policy - which Pipes to use - for one or more types of traffic with the same granularity as the standard ruleset.

General Traffic Shaping

General

Name: Guests

Service: all_tcpudp

Schedule: (None)

Address Filter

Specify source interface and source network, together with destination interface and destination network for the rule to match.

Source	Interface	Network	Destination
	VLAN2	VLAN2_net	Marino_Net
			all-nets

Comments

Comments: For Guest (VLAN2)

OK Cancel

Правило ограничения скорости доступа гостей в Интернет.

Только для гостей через VLAN2

D-Link Firewall 2.30.01 - Opera

Файл Правка Вид Закладки Виджеты Инструменты Справка

Запр... web... Коф... D-Link ftp:/... Ком... Сет... NAS ... Ком... D-Li... D-Li... D-Li... Эксп...

http://192.168.0.10/ Искать в Яндекс

D-Link
Building Networks for People

Logged in as administrator
admin - 192.168.0.109

Home Configuration Tools Status Maintenance Logout Help

Guests
A Pipe Rule determines traffic shaping policy - which Pipes to use - for one or more types of traffic with the same granularity as the standard ruleset.

General Traffic Shaping

Pipe Chains
Use pipe chains to direct network traffic matching this rule through one or more pipes in order to perform traffic shaping on the particular traffic.

Forward chain

Available
html_guest_in

Selected
html_guest_out

Move up Move down

Return chain

Available
html_guest_out

Selected
html_guest_in

Move up Move down

Тут выбираем наши каналы, через которые будет идти трафик для гостей.

