

How to configure DNS Relay

This example describes about firewalls support to relay DNS query packets from LAN to Internet for domain name resolving. All DFL firewalls (DFL-210/800/1600/2500) support this feature from firmware v2.04 and later.

Note: About this feature, it performs relay/forward DNS packets only since D-Link DFL firewalls don't built-in DNS server in system kernel. Therefore, it can not instead of real DNS server to provide domain name resolving and related functionality.

Details:

- LAN IP on firewall: 192.168.1.1 (with the function of DNS relay)
- Lannet on firewall: 192.168.1.0/24
- DNS Server on Internet: 12.0.0.1

1. Addresses

Go to Objects -> Address book -> InterfaceAddresses

Create an IP Address called dns_server with address 12.0.0.1

Click Ok.

2. Create IP Rules to redirect DNS packets to Internet

Go to Rules -> IP Rules

Create a new IP Rule with SAT action.

In the General tab:

General:

💈 An I	P rule specifies v	what action t	perform on network traffic that matches the specified filter criteria.
•			
lame:	SAT_DNS_Re	elay	
action:	SAT	~	
ervice:	dns-all	~	
chedule:	(None)	~	

Name: SAT_DNS_Relay Action: SAT Service: dns_all



Address Filter:

100						
	ecify source inter rule to match.	face and sour	ce network, togeth	erwith destin	ation interface and destina	ition network. All j
	Source		Destination			
Interface:	lan	~	core	~		
	10 million (1997)	10 March 10	lan_ip	100 C		

Source Interface: lan Source Network: lannet Destination Interface: core Destination Network: lan_ip

In the SAT tab:

General:

👌 IP Rule	
General Log Setting	gs NAT SAT SAT Server Load Balancing
🛃 General	
Translate the C Source IP Add C Destination IP To:	
New IP Address: New Port:	dns_server
All-to-One Map	number or a port range without gaps ping: rewrite all destination IPs to a single IP

Translate the: Destination IP Address New IP Address: dns_server

Click Ok.



Create an identical IP Rule with NAT action. If the environment is not NAT, create a ALLOW rule instead.

In the General tab:

8 An	IP rule specifies v	hat action to perform on network traffic that matches the specified filter	criteria.
lame:	Allow_DNS_R	elay	
iction:	NAT	×	
ervice:	dns-all	×	
chedule:	(None)	~	

Service: dns_all

Address Filter:

Address	Filter									
	The West Control of the Second	ace and sour	ce network, togeth	nerwith dest	nation ir	nterface	and de	stinatio	on netwo	ık. All j
g-g the	rule to match.									
	521 CC 900000000000		STRAND CHATLAND COM							
	Source		Destination							
Interface:	Source Ian	~	Destination core	*						

Source Interface: lan Source Network: lannet Destination Interface: core Destination Network: lan_ip

Click Ok.

Make sure these two rules are triggered before any generic rules (e.g. allow_standard rules).

And also, configure all PCs to have the firewall lan_ip (192.168.1.1) as DNS server.

Save and activate the configuration on firewall