



Configuration examples for the D-Link NetDefend Firewall series



Setting up two Internet connections with failover



This configuration example is based on the following setup:



Step 1. Log into the firewall. The default access to LAN is via <u>https://192.168.10.1</u>. Default username is "admin" and password is "admin".

Step 2. Set your WAN 1 and WAN2 settings as per Internet provider requirements. In our example WAN 1 is set as DHCP client and WAN 2 with static IP address.

 ▼ General Address Book Services ALG Key Ring 	Inte An ad	erfaceAddress Idress folder can be use	SES d to group related addre Edit this object	ss obj	ects for better ove	erview.
▼ Address Pool	# 🍝	Name	Address	User	Auth Groups	Comments
IP Pools	1	🛺 wan1_ip	0.0.0.0			IPAddress of interface
NAT Pools	2	wan1net	0.0.0/0		WAN1: DH	ICP rk on interfac
▼ VPN Objects	0		0.0.0.0			Default getaugu far int
LDAP	3	wan1_gw	0.0.0.0			Default gateway for Int
IKE Config Mode Pool	4	4 wan2_ip	192.168.120.254			IPAddress of interface
IKE ID Lists	5	G4 wan2net	192.168.120.0/24	\mathbf{F}	WAN2: Sta	atic IP rk on interfac
IKE Algorithms	6	4 wan2_gw	192.168.120.1			



Step 3. Go to Network > Ethernet > and set WAN1 and WAN2 with required IP settings.

Click on Advanced tab. Disable the "Add route..." and "Add default route..." options for WAN1 and WAN2 (otherwise you won't be able to modify the routing settings).

	Status	System	Objects	Network	Polic	cies	
	Interfaces ar	nd VPN Ro	uting Netw	ork Services			
▼ Link Layer Ethernet VLAN PPPoE ARP/Neighbor Discovery	Etherr Configure	net the settings for the	Ethernet adapter	s in the system	ı. Filter		
▼ VPN and Tunnels	# 🛧 Nan	ne IPv4 Ad	dre IPv6 Addre	Network	Default Gat	Enable DH	
IPsec SSL	1 = v 2 = v	van1 🙀 wan1 van2 🖓 wan2	_ip	√ wan1net √ wan2net	🙀 wan1_gw	Yes	
General Hardware Settings Virtual Routing Advanced Automatic Route Creation Automatically add comments used routes related to this interface Wan2							
Automatically add	a An Ether	net interface re	presents a log	ical endpoir	nt for Ethern	net traffic.	
Route metric: 100	Gen	eral Har	lware Setting	s Virtu	al Routing	Advar	nced
Automatic Route Creation Automatically add commonly used routes related to this interface Automatically add a route for this interface using the given network. Automatically add a default route for this interface using the given default gateway Court first the metric for the anto-metric for the anto-metri							



Step 4. Go to Network > Interface Groups. Combine WAN1 and WAN2 into a group. (This is just to make it easy to apply rules to both interfaces in one go).

	Status	System	Obje	cts Net	work	Policies	
	Interfaces ar	nd VPN	Routing	Network Serv	ices		
▼ Link Layer	Interfac	e Grou	р				
Ethernet	Use an interf	ace group to	combine sev	veral interfaces	for a simpl	lified security polic	y.
VLAN						51	ĺ
PPPoE	Name:	WAN1_and_	WAN2				
ARP/Neighbor Discovery	Security	y/Transport E	quivalent				
▼ VPN and Tunnels							
IPsec	Interfaces						
SSL)	
PPTP/L2TP Servers	Available		Sele	cted		_	
L2TPv3 Servers	core		▲ wan:	1	*		
PPTP/L2TP Clients	dmz		want	2			
L2TPv3 Clients	Idii						
GRE							
▼ Miscellaneous			-		-		
Switch Management							
Interface Groups	+ Include	•	×	Remove			

Step 5. Go to Policies > Main IP Rules. Add a new (or modify the existing "Allow_standard") rule which does NAT for all traffic going from LAN to WAN1 and WAN2.

Set LAN as Source and the "WAN1-and-WAN2" interface group as Destination..

General	Log Settings	NAT	SAT			
Name:	allow_standard					
Action:	NAT	1 NAT	r, sat, slb s			
Service:	🗟 all_tcpudp 🛛 👻	/				
Schedule:	(None) 👻					
Address Filter Specify source interface and source network, together with						
	Interface	Network				
Source:	🛃 lan 👻	4 lanne	et 💌			
Destinatior:	WAN1_and_WAN	🕞 all-ne	ets 🔻			

Step 6. Now we need to manually create a default route that routes via WAN1.

Go to Network > Routing > Main routing table. Create a Route for WAN1:

- Network: all-nets (that means Destination IP Any).
- Gateway: wan1_gw.
- Since we want WAN1 to be our primary route, set lower Metric e.g. 80 (default is 100).

Click on the **Monitor** tab and enable the "Monitor" option. "Monitor Interface Link Status" – physical connection status; "Monitor Gateway using ARP" – next hop connectivity status.

General F	Proxy ARP		
		Monitor	
Interface: Network: Gateway: Local IP address: Metric: Route IPv4	wan1 all-nets wan1_gw (None) 80	 ▼ ▼ ▼ 	
A route defines wha	t interface and ga	ateway to us	e in order to reach a

Step 7. Create similar Route for WAN2 (or modify existing). Make sure the destination Network is set to "all-nets". Make sure to set Metric higher than WAN1 (e.g. 90).

Click on the **Monitor** tab and enable the "Monitor" option.

Route IPv4					
A route defines what interface and gateway to					
General	Proxy ARP	Monitor			
Interface:	wan2	-			
Network:	4 all-nets	-			
Gateway:	4 wan2_gw	-			
Local IP address:	(None)	-			
Metric:	90	à			



D-Link Australia & New Zealand Technical Support TechSupport **Step 8.** After the configuration is done, click "Configuration" in main bar and select "Save and Activate". Then click OK to confirm. Wait for 15 sec. You will be automatically redirected to the firewall's LAN IP address.

NOTE: If you do not re-login into the firewall within 30 sec, the configuration is reverted to its previous state. The validation timeout can be adjusted under System > Remote Management > Advanced Settings.

		Setup Wizard 🚺 🏶 Configuration 🚺	■Notifications 0
Status	System	The configuration has been changed.	
Run-time In	formation M	Save and Activate	
		View Changes	
Save	Configurat	Discard changes	
Save and	activate changes n		
Save and	Activate		
Are you	sure you want to save	e the configuration?	
An admi revert to	nistrator needs to log its previous configura	n within 30 seconds to verify the new configuration. Otherwise the unit will assume tion.	that you accidentally locked yourself out, and
Note: Do configur	ue to configuration cha ation. You will need to	nges the currently active user admin (192.168.10.151) will no longer be automatical manually login with an administrator user account to verify the new configuration.	ly logged on after the activation of the new
			OK Cancel

