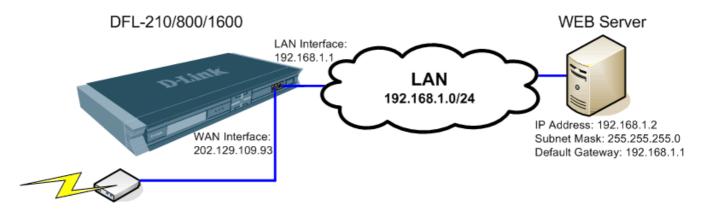
DFL-210, DFL-800, DFL-1600 How to open ports for a WEB server on LAN

This setup example uses the following network settings: the WAN interface has public IP address. The modem is in bridge mode (no NAT). The FTP server is on a network connected to the LAN interface.



Step 1. Log into the Firewall by opening Internet Explorer and typing the LAN address of the Firewall. In our example we are using 192.168.0.1. Enter Username and Password which you specified during the initial setup of the Firewall.

Step 2. If you are setting up a WEB server which uses HTTP port 80, it is advisable to change the default management port of your firewall from 80 to something else. You can set it to be accessed via HTTPS only (port 443) https://192.168.1.1. This can be set under System > Remote Management.

D-Link Building Networks for People		Logged in as administrator admin - 192.168.1.2
Seconfiguration 👻 🎢	Tools 👻 🔮 Status 👻	😕 Logout 🕜 Help
DFL-210 System Dobs Drs DrCP Settings DrS Misc. Clients Dobjects Rules Rules Interfaces	Error Access Type Select the remote access types that should be enabled. HTTP HTTP HTTPS Access Select the user database to use for login and the access level to grant to the user.	<u>15</u>
Routing IDS / IDP ID IDS / IDP IDS / IDP IDP IDP ID IDP ID IDP IDP	User Database: AdminUsers Access Level: Admin Admin Admin Admin Admin Market Admin Market Admin	<u>5</u>
	Netwook: Tannet V Comments:	OK Cancel

If you want to leave HTTP management active but change the port to something different for port 80 (e.g. port 88), select "Modify Advanced Settings" under System > Remote Management.

D-Link Building Networks for People				🤶 Logged in	n as administra admin - 192.168	tor .1.2
Home Configuration V To To Phone Delta Configuration V VI To Phone Delta Configuration VI To Phone Delta Configuratio VI To Phone Delta Configuratio VI To	ools - 🕒 Status -				2 Logout	()Help
System Subset Subset Subset Subset Subset	Setup and configure methods and p Add - Type - O SHTTP/HTTPS Management	ermissions for remote managem Mode ▼ Admin: HTTP, HTTPS	ent of this system. Interface 💌 😼 Ian	Network 💌	Comments *	
Advanced Settings Objects Objects Rules Routing Objects/DP			C Ri		v for further option	

Set WebUI HTTP Port to a different value (e.g. 88). Note that after applying this setting you will need to log into the firewall via new port number: <u>http://192.168.1.1:88</u>

9 DFL-210	Remote Management	
Obte and Time Obte an	eneral Setup and configure methods and permissions for remote management of this system.	<u>1</u>
	bUI Before Rules: Image: Control of the formed in the	5
	SNMP specific settings. MP Before Rules: Enable SNMP traffic to the firewall regardless of configured IP Rules. quest Limit: 100 Maximum number of SNMP packets that will be processed each second them Contact: N/A The contact person for this managed node them Location: N/A The name for this managed node them Location: N/A The physical location of this node erface Description: Name What to display in the SNMP MIB-II ifDescr variables OK Cance	1

You can also change the validation timeout to 180 sec. That will mean that the firewall will wait for your login for 180 sec before reverting new settings to previous state.

Click on OK when done. Apply these new settings by clicking on Configuration > Save and Activate > OK. Re-login into the firewall via new port number or via HTTPS.

Step 3. Go to Objects > Address Book. Click on Add and select "IP4 Host/Network".

D-Link Building Networks for People			Cogged in as adm admin - 19	ninistrator 2.168.1.100
Section - 🍟 Too	ols 🗸 🗳 Status 👻		20 20	ogout 🕜Help
CFL-210 Cojects Coje	Add - IP4 HostNetwook	s types of addresses, includin UserAuthGroups ♥	ng IP netwoks and Ethemet MAC addresses. Comments This folder contains addresses for interfaces All possible networks Right-olick on a row for furthe	er options.

Step 4. Under Name enter "WEB_Server" and under IP Address specify the IP address of the server on your LAN. In our example it is 192.168.1.2.

Click on OK when done.

D-Link Building Networks for People		Cogged in as administrator edmin - 192,168.1.100
Stat	15 💌	🖉 Logout 🕜 Help
Chiects Chiects Control Contr	teer Authentication a an IP4 Address item to define a name for a specific IP4 host, network or range. WEB_Server 192.168.1.2 e.g: *172.18.50.8*, *102.188.30.7, 102.188.30.11*, *192.168.7.0/24* a its	and *172.18.25.50*

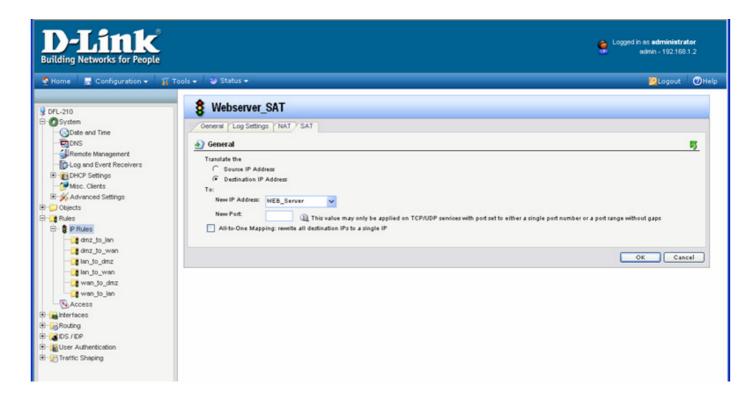
Step 5. Go to Rules > IP Rules. Click on Add and select "IP Rule".

D-Link Building Networks for People						🤶 Log	jed in as administra admin - 192.168.1.1	tor 100
SHome 📃 Configuration 👻 🌃 Tools	; 🗸 🛛 🥹 Status 👻						🖉 Logout	CHelp
DFL-210 System Objects Cojects Rules Garge data_log lan data_log	 IP Rules IP Rules are use Add - IP Rule IP Rule IP Rule Folder 	ed to filter IP- Action *	based network traffic. In a	addition, they provide m Source Network *	eans for address translation as w Destination Interface 💌	ell as Server Load Balancing. Destination Network 🔻	Service ¥	
Ban_to_wan Ganz G	0 ping_fw 1 lan_to_wan 2 lan_to_dmz 3 dmz_to_lan 4 dmz_to_wan 5 wan_to_lan 6 wan_to_dmz	Allow	🖷 lan	9 lannet	Core	9 lan_ip	🍞 ping-inbound	
 ⊕-@IDS / IDP ⊕ User Authentication ⊕- ⊘ Traffic Shaping 						(1) Right-click on J	row for further option:	

Step 6. Specify the new IP rule settings: Name: Webserver_SAT Action: SAT Service: HTTP (You can specify a different service if your server requires a different port to be opened. You can create your own service with required ports under Objects > Services > Add). Source Interface: any Source Network: all-nets Destination Interface: core Destination Network: wan_ip

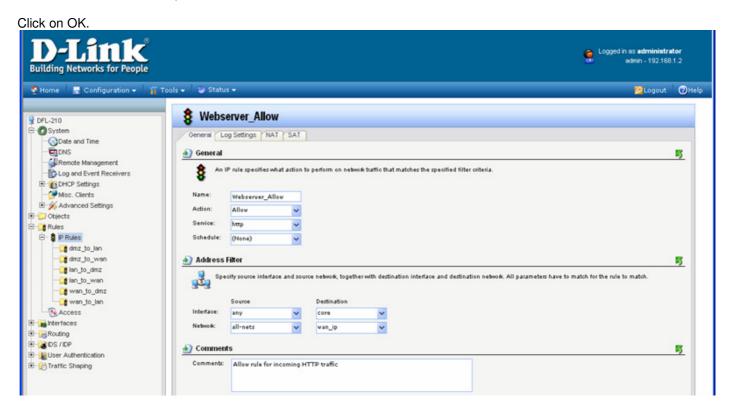
D-Link Building Networks for People		Logged in as administr admin - 192.166	ator 3.1.2
Section - 🎢 Too	is 🔹 🚽 Status 🕶	💋 Logout	Help
DFL-210 System Dots and Time DNS Remote Management DNS Memote Management Misc. Clerits Advanced Settings Clicits Rules Rules Clicits Clicits Clicits Clicits Clicits Clicits Clicits Clic			5
dinz_to_wan dinz_to_wan din_to_dinz lan_to_dinz wan_to_dinz wan_to_dinz wan_to_lan wan_to_lan cess for Routing GOS/IDP GUSer Authentication Er © Traffic Shaping	Address Filter	to match for the rule to match.	<u>15</u>

Click on SAT tab and under Destination IP Address select "WEB_Server". Click on OK when done.

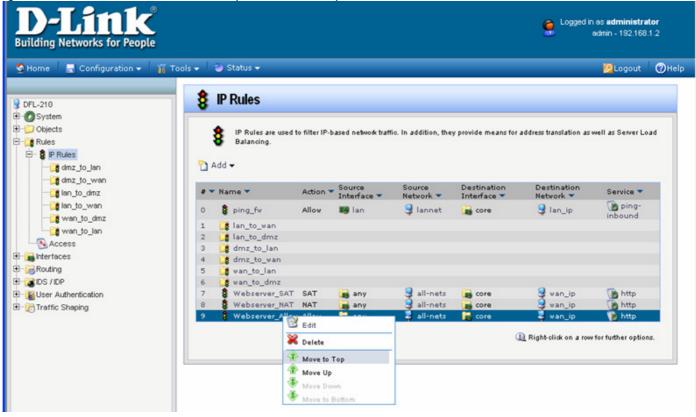


Step 7. Add another IP rule with the following settings:

Name: Webserver_Allow Action: Allow Service: HTTP (You can specify a different service if your server requires a different port to be opened. You can create your own service with required ports under Objects > Services > Add). Source Interface: any Source Network: all-nets Destination Interface: core Destination Network: wan_ip



Step 8. Rearrange the IP rules so the "Webserver_SAT" rule is on top," and "Webserver_Allow" is below it. To do that right-click on the rule and select "Move Up" or "Move to Top".

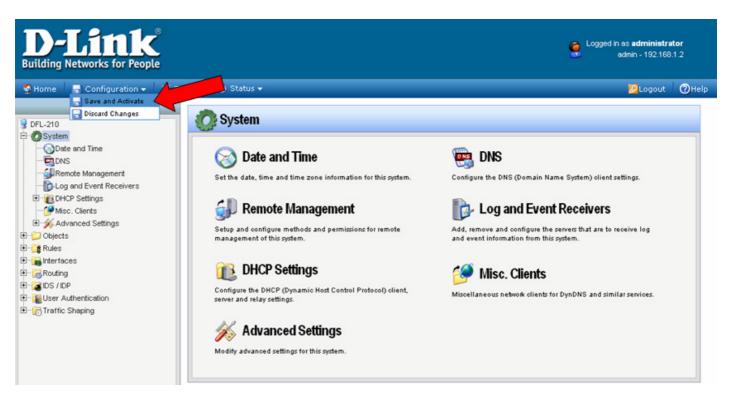


The final rules arrangement should look like this:

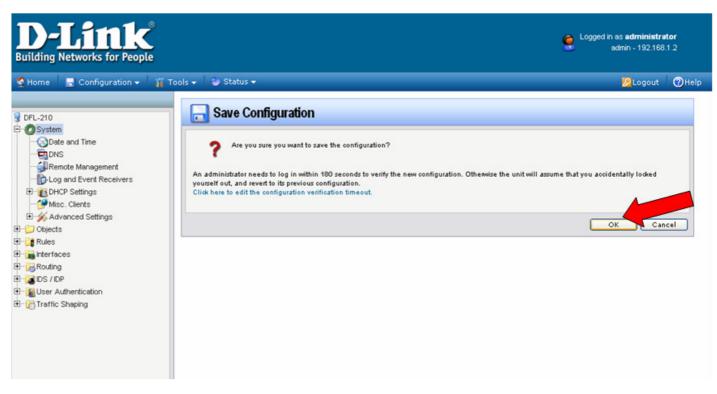
	IP Rules are used Balancing.	to filter IP-b.	ased network traff	ic. In addition, the	y provide means fo	r address translation as v	well as Server Loa
-	Name 🔻	Action 🔻	Source Interface 🔻	Source Network 🔻	Destination Interface 🔻	Destination Network 💌	Service 🔻
0	Webserver_SAT	SAT	any	3 all-nets	Core	😏 van_ip	http
1	Webserver_NAT	NAT	🙀 any	🤤 all-nets	🙀 core	🤤 wan_ip	http
2	8 Webserver_Allo	w Allow	🙀 any	🤤 all-nets	core	🤤 van_ip	http
3	🚦 ping_fv	Allow	飅 lan	🤤 lannet	📷 core	🤤 lan_ip	ping- inbound
4	📑 lan_to_wan						
5	📑 lan_to_dmz						
6	🔰 dmz_to_lan						
7	📑 dmz_to_wan						
8	🔰 wan_to_lan						
9	🔰 wan_to_dmz						

Please note, the NAT rule is only needed when you want to access the service from the LAN side using the public IP. This is the same rule as the allow but the action is NAT.

Step 9. Save the new configuration. In the top menu bar click on Configuration and select "Save and Activate".



Click on OK to confirm the new settings activation:



Wait 15 seconds for the Firewall to apply the new settings.