

D-Link
Building Networks for People

NETDEFEND

Scenario & Hands-on

Basic Configuration- **WAN type-Static IP**
Network topology

The diagram illustrates a network topology for a D-Link router. A central router is connected to two clouds. The top cloud, labeled 'WAN1(Static)', contains the following information: IP:192.168.174.70/24, WAN1-gateway IP:192.168.174.254/24. The bottom cloud, labeled 'Internal LAN1', contains the information: IP: 192.168.3.1/24. Blue lines represent the network connections between the router and the clouds.

Note:

- Configure Wan1 IP and Net Mask
- Add Wan1 default gateway

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Objectives

- Configure WAN type with Static IP address

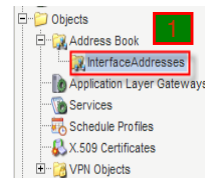
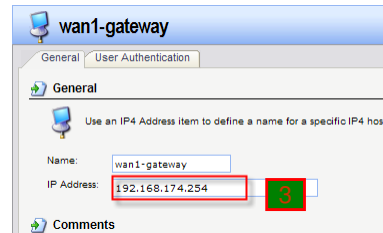
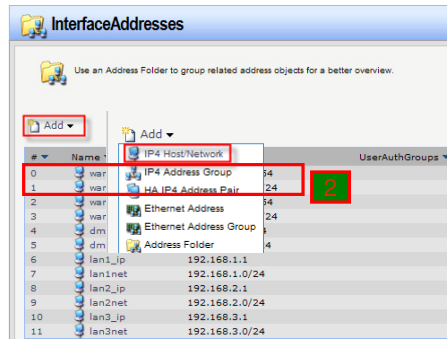
The Logics of Configuration

- Before configuring WAN type with static IP, please reset the device to default
- Create an object for WAN1 gateway to apply to the interface of WAN1
- Configure WAN1 IP address & Net Mask
- Choose the correct Action, Service, Interface and Network for the rule

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Basic Configuration- WAN type-Static IP



Create the correct gateway object under “Address Book”

- Click “address book” under “Object”
- Add an object for IP4 Host/Network
- Enter the IP addresses of wan1-gateway

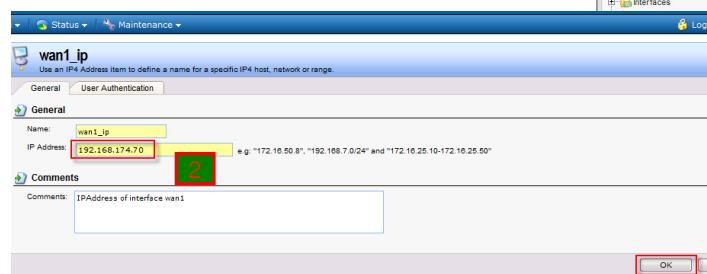
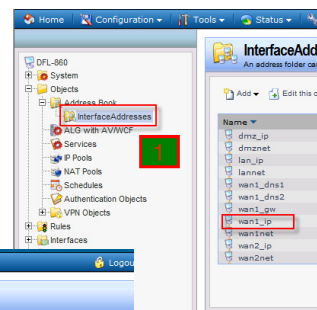
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Configure the WAN1_IP object

- Click “address book”, “InterfaceAddress” under “Object”
- Click “Wan1_ip”
- Enter “wan1_ip”



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1 2 3 4

Configure the WAN1net object

- Click “address book”, “InterfaceAddress” under “Object”
- Click “Wan1net”
- Enter “wan1net”

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Configure WAN1 Interface

- Click “Ethernet”, “Wan1” under “Interfaces”
- Add the Wan1_gw object for “Default Gateway”

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Verify the service rule in IP rules

- Click “IP rules”, “lan_to_wan1” under “Rules”
- Verify the service rule

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Home Configuration Tools Status Maintenance Logout

DFL-860 System Objects Rules IP Rules Access Interfaces IP Rules lan_to_wan1 Interfaces Access Interfaces Routing IP / IPS User Authentication Traffic Management ZoneDefense

allow_standard
An IP rule specifies what action to perform on network traffic that matches the specified filter criteria.

General Log Settings NAT SAT SAT SLB Multiplex SAT

General

Name: allow_standard

Action: NAT **1**

Service: all_tcpudp

Schedule: (None)

Address Filter

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

Source		Destination	
Interface:	lan	Interface:	wan1
Network:	lan-net	Network:	all-nets

Comments

Comments:

OK Cancel

Verify the service rule in IP rules

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File Edit View Favorites Tools Help

Address http://192.168.1.1/

Pop-up blocked. To see this pop-up or additional options click here...

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Logged in as administrator
admin - 192.168.1.75

Logout Help

Save and Activate

Discard Changes

Do you want to save the configuration?

OK Cancel

Done

After all configuration , Click "configuration" in main bar

- Click "Save and Activate"

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Ping to Internet (tw.yahoo.com)

Testing Result

```
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Joe Lee>ping tw.yahoo.com -t

Pinging vipl.tw.tpe.yahoo.com [202.43.195.52] with 32 bytes of data:

Reply from 202.43.195.52: bytes=32 time=69ms TTL=47
Reply from 202.43.195.52: bytes=32 time=13ms TTL=47
Reply from 202.43.195.52: bytes=32 time=13ms TTL=47
Reply from 202.43.195.52: bytes=32 time=14ms TTL=47
Reply from 202.43.195.52: bytes=32 time=15ms TTL=47
Reply from 202.43.195.52: bytes=32 time=13ms TTL=47
Reply from 202.43.195.52: bytes=32 time=14ms TTL=47
Reply from 202.43.195.52: bytes=32 time=14ms TTL=47
Reply from 202.43.195.52: bytes=32 time=37ms TTL=47
Reply from 202.43.195.52: bytes=32 time=15ms TTL=47
Reply from 202.43.195.52: bytes=32 time=15ms TTL=47
```