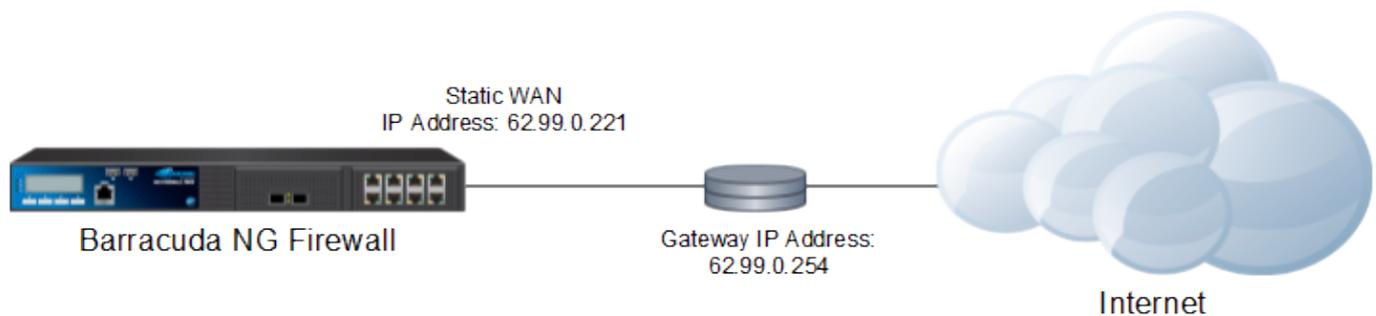


## How to Configure an ISP with Static IP Addresses

<https://campus.barracuda.com/doc/41116421/>

If your Internet connection is using static IP addresses or entire network ranges assigned by your ISP, you must create routing entries on box level and then assign the IP address(es) to the virtual server. Choose the network type **Untrusted** to automatically create a default route (0.0.0.0/0) for the connection.



**In this article:**

### Before you Begin

Connect the network equipment installed by your provider to an unused port (not the management port) of your Barracuda NG Firewall.

### Step 1. Add a Direct Route

Create a direct attached route entry to create the network on box level of the Barracuda NG Firewall. Be sure to create the route on the port the ISP is plugged into.

1. Open the **Network** page (**Config > Full Config > Box**).
2. In the left menu, select **Routing**.
3. Click **Lock**.
4. In the **Main Routing Table**, click + to add a new route.
5. Enter a **Name** for the route and click **OK**.

6. In the **Target Network Address** field, enter the IP address of the target network. E.g.,:  
62.99.0.0/24
7. Select **directly attached network** as the **Route Type**.
8. From the **Interface Name** list, select the port the ISP is connected to. E.g.,: **port 2**.
9. If the default route will be introduced in an environment where multiple dynamic links are available, specify a **Route Metric**.
10. Select **Untrusted** as the **Trust Level**.
11. Enter the **Default Gateway** IP address. E.g.,: 62.99.0.254
12. Click **OK**.
13. Click **Send Changes** and **Activate**.

## Step 2. Network Activation

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After you create or change basic network configurations such as routing, you must activate your new network configurations.

1. Open the **Box** page (**Control > Box**).
2. In the left menu, expand the **Network** section and click **Activate new network configuration**.
3. Select **Soft**. The 'Soft Activation Succeeded' message is displayed after your new network configurations have been successfully activated.

Your route is now displayed as a disabled route (grey "x" icon) in **CONTROL > Network**.

## Step 3. Add the Static IP Address to a Virtual Server

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Assign the individual WAN IP addresses you want to use to the virtual servers on the Barracuda NG Firewall. By introducing the external IP addresses on the virtual server, you can use a [high availability \(HA\) cluster](#) to transfer the WAN address to the secondary unit and still be reachable under the same IP address. In our example, you would enter 62.99.0.221 in the virtual **Server Properties (Config > Full Config > Virtual Servers > your virtual server)** as the **First-IP**, **Second-IP** or **Additional IP** address.

For more information, see [Virtual Servers and Services](#).

## Verify the Network Configuration

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Open the [Network Page](#) page to verify that all network routes have been introduced successfully.

Verify the WAN IP addresses are displayed with a green status icon and that the introduced routes are available in the tables **Main** and **Default** and that the default route is directing traffic through your ISP connection.

COCKPIT   CONFIG   **CONTROL**   FIREWALL   VPN   LOGS   STATISTICS   AUDIT   EVENTS   SSH

Server   **Network**   Resources   Licenses   Box   Sessions

Interface/IP	Label	Ping	MAC of duplicate IP	Info
<b>dhcp</b>				
<b>port 1, Speed=1000Mb/s, Duplex=Full</b>				
10.0.8.220/24	mip0	ok	-	
10.0.8.221/32	S1	ok	-	
<b>port2, Speed=1000Mb/s, Duplex=Full</b>				
62.99.0.221/32	S1	ok	-	
<b>port3, Speed=1000Mb/s, Duplex=Full</b>				
172.16.0.221/32	S1	ok	-	
<b>lo</b>				
<b>pvpn0</b>				
<b>tap0</b>				
<b>tap1</b>				
<b>tap2</b>				

Interfaces/IPs   IPs   Interfaces   Proxy ARPs   ARPs   Statistics   OSPF   Switch Info

TABLES   ALL

Table / Src Filter	State	Type	Interface	Src IP	Pref	Gateway	Name
<b>Table vprlocal, From all</b>							
Table dhcp1, From 0.0.0.0							
<b>Table main, From all</b>							
10.0.8.0/24	up	direct-boot	port1	10.0.8.220	0	-	boxnet
127.0.1.0/24	up	direct-kernel	tap0	127.0.1.1	0	-	
127.0.2.0/24	up	direct-kernel	tap1	127.0.2.1	0	-	
127.0.3.0/24	up	direct-kernel	pvpn0	127.0.3.1	0	-	
127.0.3.0/24	up	direct-kernel	tap2	127.0.3.1	0	-	
172.16.0.0/24	up	direct-boot	port4	172.16.0.221	0	-	DMZ-direct
62.99.0.0/24	up	direct-boot	port2	62.99.0.221	0	-	ISP1
<b>Table default, From all</b>							
0.0.0.0/0	up	gateway-boot	port2	62.99.0.221	100	62.99.0.254	default-isp1

## Figures

1. static\_wan.png
2. routing\_static.PNG

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