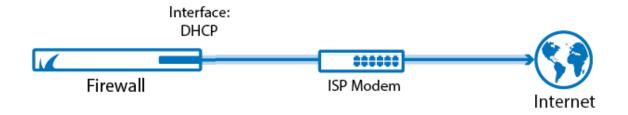


## How to Configure an ISP with Dynamic IP Addresses (DHCP)

https://campus.barracuda.com/doc/72516272/

If the IP address is dynamically assigned by your ISP, follow the instructions below to configure the interface.



### **Before You Begin**

If your ISP provides a modem, connect the Ethernet port of the modem to a free network interface on the back of your firewall. Use the Ethernet cable that is delivered with the modem. If a cable was not delivered with the modem, determine if the modem must be connected to another device with a standard Ethernet cable or a crossover cable.

#### **Step 1. Configure the WAN Interface**

- 1. Go to **NETWORK > IP Configuration**.
- 2. In the Dynamic Interface Configuration section, click Add Dynamic Network Interface.
- 3. Enter a name for the new connection.
- 4. Set Network Protocol to DHCP.
- 5. From the **Network Interface** list, select the network interface that the ISP modem is connected to on the firewall.
- 6. Set Classification to WAN.



#### Add Dynamic Network Interface ② Disable Name: DHCP Maximum 8 characters, no spaces allowed. ○ PPPoE O DHCP O PPTP Network Protocol: Protocol for this interface Network Interface: eth3 MTU: 1500 Maximum Transmission Unit in bytes. DHCP default is 1500. Create Default Route: Yes O No Automatically include default route Metric: 100 Must be unique across all interfaces. The interface with the lowest value is used for outgoing traffic. Yes No Use Assigned DNS: Use the DNS server assigned by your ISP. Yes Use Dynamic DNS: No Use DynDNS (requires registration) O DMZ ○ Unclassified ○ Trusted Classification: WAN How this interface is classified within your network. For ISP links, select WAN. Connection Timeout: Number of seconds to wait for dynamic address to be assigned. Default: 10 Automatic Manual Connection Start Select Automatic to start the link automatically. Select Manual to start and stop the Method: link as needed by clicking RUN in the NETWORK > IP Configuration > Dynamic Network Interfaces section. Health Check Target: +Add IP addresses that can be reached via this dynamic interface. If the health check target becomes unavailable the Barracuda NextGen Firewall will attempt to re-establish the link Cancel Save

- 7. Configure the remaining settings for your network requirements:
  - MTU Enter the MTU size. If the MTU size is too large, network packets passing the ISP line are fragmented and might decrease the performance of your network performance.
     For the correct MTU size, contact your ISP.
  - Create Default Route Set to Yes to automatically introduce a network route for this Internet connection.
  - Metric For the initial configuration, keep the default Metric value of 100. In a multiprovider configuration, the firewall chooses the interface with the lowest metric for outgoing traffic.
  - Use Assigned DNS To use the DNS server that is assigned by your ISP, set Use Assigned DNS to Yes. The firewall then uses the DNS servers of the ISP for DNS requests.
  - Use Dynamic DNS To make the firewall reachable with a unique identifier (DNS-



- resolvable name), set **Use Dynamic DNS** to **Yes** and enter your DynDNS credentials. For more information about the DynDNS service, visit <a href="http://dyn.com/dns/">http://dyn.com/dns/</a>.
- Connection Timeout The connection timeout specifies the time in seconds that the firewall waits for an IP address to be assigned. If the defined limit is exceeded, the link is marked as unreachable.
- Connection Start Method To start the link automatically, set Connection Start Method to Automatic.
- Connection Start Method To manually start and stop the link, set Connection Start Method to Manual. To control the link, go to the Dynamic Network Interfaces section of the NETWORK > IP Configuration page.
  - **Health Check** To monitor the Internet connection, select a type of **Health Check** to perform. Most ISPs support LCP to continuously monitor successful data transmission. However, you can use ICMP requests for monitoring the Internet connection. If you use ICMP for link monitoring, add a target IP address to the **Health Check Target** list.
- 8. Click **Save** to save the new configuration.

#### Step 2. Perform a Network Activation

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

- 1. Scroll to the top of the page
- 2. Click on the link in the warning message to activate the new network configuration.



#### **Verify the Network Configuration**

After the network activation with the new DHCP the entry is in the table in the Dynamic Interface Configuration section.



The DHCP interface is now also shown in the Network Interface Configuration section.

# Barracuda CloudGen Firewall



TCP Port Type/Name  00:0c:29:9f:b2:54 1500 10000 No Full Unknown Edit  00:0c:29:9f:b2:5e 1500 No Unknown Down Edit  00:0c:29:9f:b2:68 1500 No Unknown Down Edit	ETWORK INTERFACE CONFIGURATION										
h0 00:0c:29:9f:b2:54 1500 10000 No Full Unknown Edit  Mbps  h1 00:0c:29:9f:b2:5e 1500 No Unknown Down Edit  h2 00:0c:29:9f:b2:68 1500 No Unknown Down Edit	Interface			MAC Address	MTU	Speed	Use QoS	Duplex	Status	Action	
h2 00:0c:29:9f:b2:68 1500 No Unknown Down <b>Edit</b>	eth0	TOPFOIL	турелчате	00:0c:29:9f:b2:54	1500		No	Full	Unknown	Edit	
	eth1			00:0c:29:9f:b2:5e	1500		No	Unknown	Down	Edit	
och ath3 ISD IDHCDI 00:0c:20:0f:h2:68 No Unknown Unknown Edit	eth2			00:0c:29:9f:b2:68	1500		No	Unknown	Down	Edit	
ich etilo io-[pilor] 00.00.29.91.02.00 NO Olikilowii Cikilowii Edit	dhcp	eth3	ISP [DHCP]	00:0c:29:9f:b2:68			No	Unknown	Unknown	Edit	

#### Barracuda CloudGen Firewall



#### **Figures**

- 1. dhcp\_wan.png
- 2. configure\_dhcp\_connection.png
- 3. network\_activation\_ip\_configuration.png
- 4. dhcp\_interface\_added.png
- 5. dhcp\_interface\_shown\_in\_nw\_itfc\_conf\_section.png

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