How to Configure a PPPoE xDSL WAN Connection with an External DSL Modem

https://campus.barracuda.com/doc/72516427/

Follow these instructions if your WAN interface is provided using PPPoE. This protocol is typically used by ISPs that offer DSL. If your ISP provides a modem, connect the Ethernet port of the modem to a free network interface of your firewall. Use the Ethernet cable that is delivered with the modem. If a cable was not delivered with the modem, clarify if the modem must be connected to another device with a standard Ethernet cable or a crossover cable.

Step 1. Configure a PPPoE Connection

1. Go to NETWORK > IP Configuration.
2. In the Dynamic Interface Configuration section, click Add Dynamic Network Interface.
3. From the Network Interface list, select the network interface that the ISP modem is connected to on the firewall.
4. Enter a name for the new connection.
5. For Network Protocol, select PPPoE.
6. Set Classification to WAN.
7. Configure the remaining settings for your network requirements:
   - **Synchronous PPP** – If your dial-in connection requires **Synchronous PPP** mode, select the check box. If you are not sure which mode to use, contact your ISP.
   - **Metric** – For the initial configuration, keep the default **Metric** value of 100. In a multi-provider configuration, the firewall chooses the interface with the lowest metric for outgoing traffic.
   - **Use Dynamic DNS** – You can make the firewall reachable with a unique identifier (DNS-resolvable name). For **Use Dynamic DNS**, select **Yes** and enter your DynDNS credentials. For more information on the DynDNS service, see [http://dyn.com/dns/](http://dyn.com/dns/).
   - **Connection Start Method** – You can manually start and stop the link. For **Connection Start Method**, select **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**.

### 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.

![Warning Message]

### Verify the Network Configuration

After the network activation with the configured PPPoE xDSL WAN you can see the entry in the table in the **Dynamic Interface Configuration** section.

![Dynamic Interface Configuration]

The PPPoE xDSL WAN connection is also shown in the **Network Interface Configuration** section.

![Network Interface Configuration]
Figures

1. configure_pppoe_connection.png
2. network_activation_ip_configuration.png
3. pppoe_xdsl_wan_connection_added_to_dynamic_interfaces.png
4. pppoe_xdsl_wan_connection_added.png