

## How to Configure a PPPoE Connection

<https://campus.barracuda.com/doc/8650781/>

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 Barracuda NextGen X-Series Firewall. Use the Ethernet cable that is delivered with the modem. If a cable was not delivered with the modem, please clarify if the modem must be connected to another device with a standard Ethernet cable or a crossover cable.

### Configure a PPPoE connection

1. Go to the **NETWORK > IP Configuration** page.
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. Select the following settings:
  - **Network Protocol: PPPoE**
  - **Classification: WAN**
6. Configure the remaining settings for your network requirements.
  - 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.
  - 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.
  - 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/>.
  - 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 > Interfaces** page.
  - 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.
7. Click **Add**.
8. At the top of the page, click on the warning message to execute the new network configuration.
9. After committing your changes, log back into the X-Series Firewall.

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