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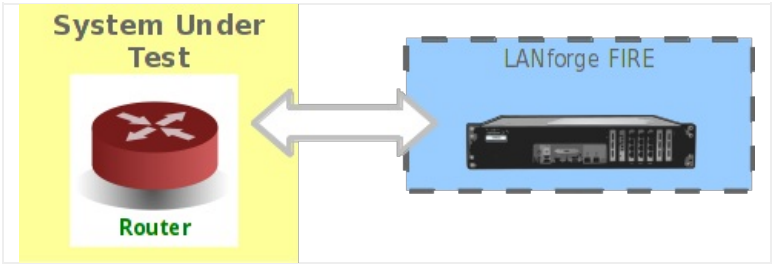
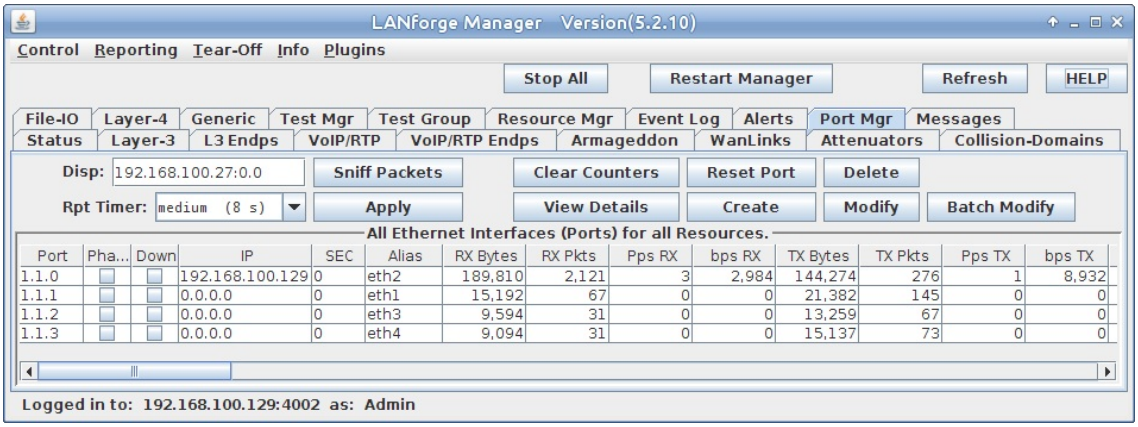
Generating Traffic to a Routed Network

Goal: Set up and run traffic on a routed network.

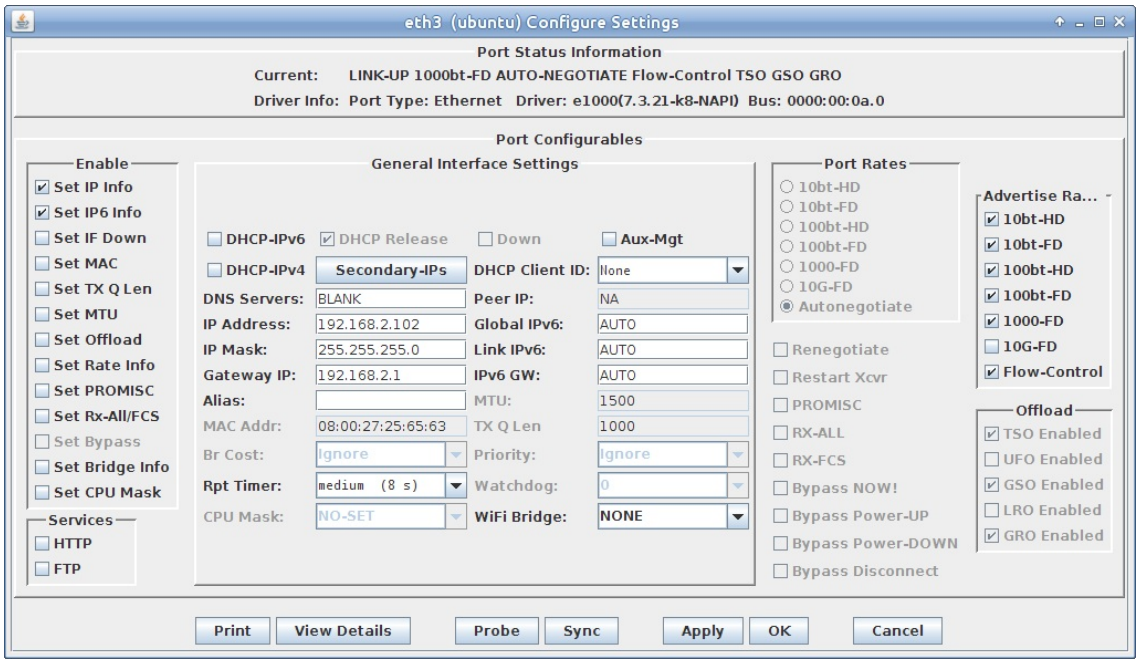
In this test scenario, LANforge-FIRE is used to generate traffic to a basic router in order to test throughput.



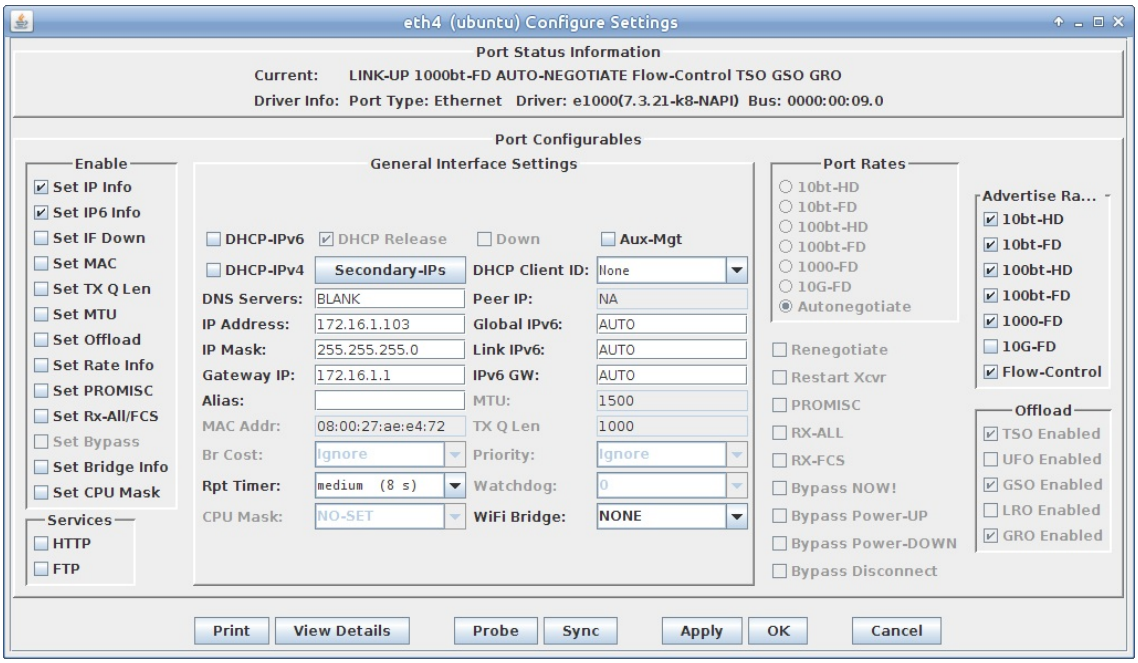
1. Connect one LANforge-FIRE port to the router's LAN port.
2. Connect another LANforge-FIRE port to the router's WAN port.
3. Set up the LANforge ports so that they have valid IP addresses. You can also use DHCP if the DUT supports it.
   A. Go to the Port Manager



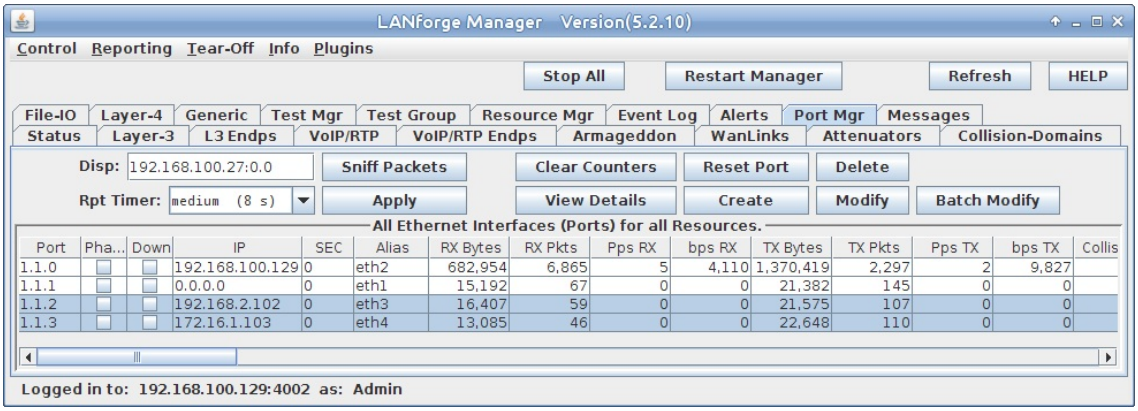
B. Modify port for Endpoint A (eth3). Set a valid network IP Address and Gateway IP.



C. Modify port for Endpoint B (eth4). Set a valid network IP Address and Gateway IP.

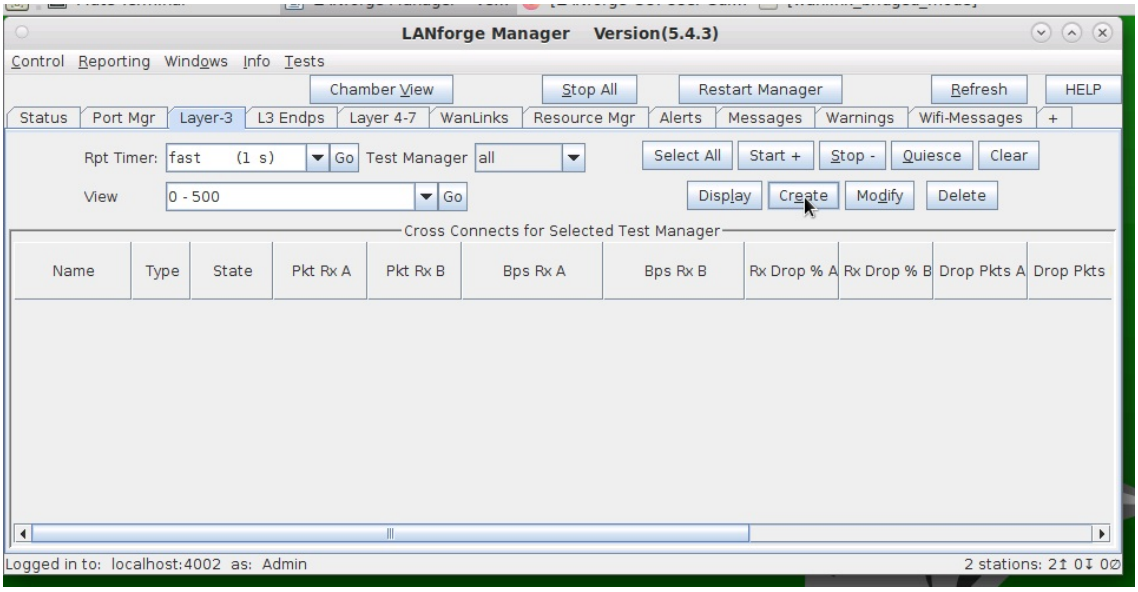


D. Verify the port configuration

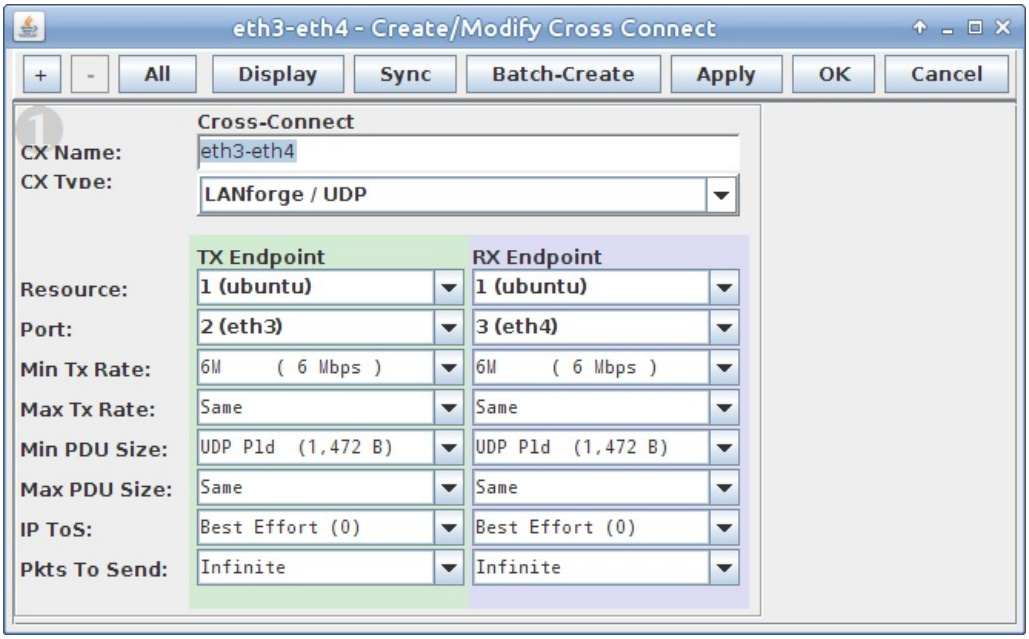


For more information see LANforge User's Guide: Ports(Interfaces)

4. Create a Layer-3 connection using the two configured ports.
   A. Go to the **Layer-3** tab



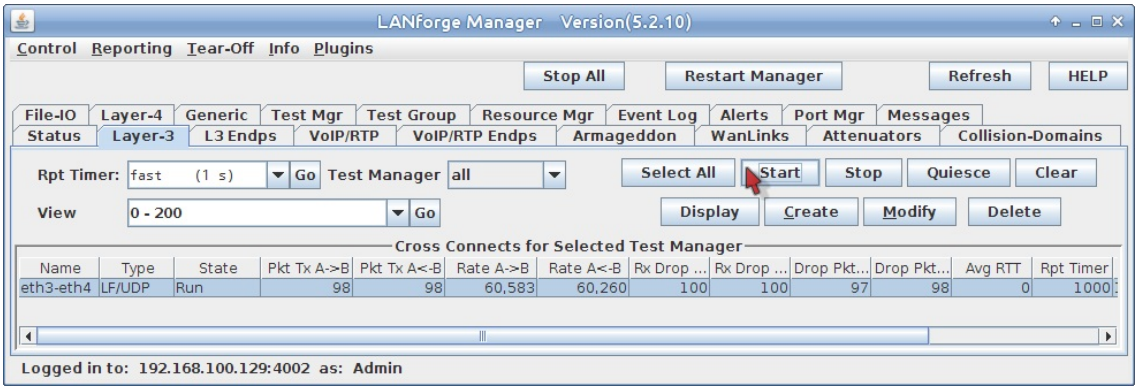
   B. Create a new Cross-Connect



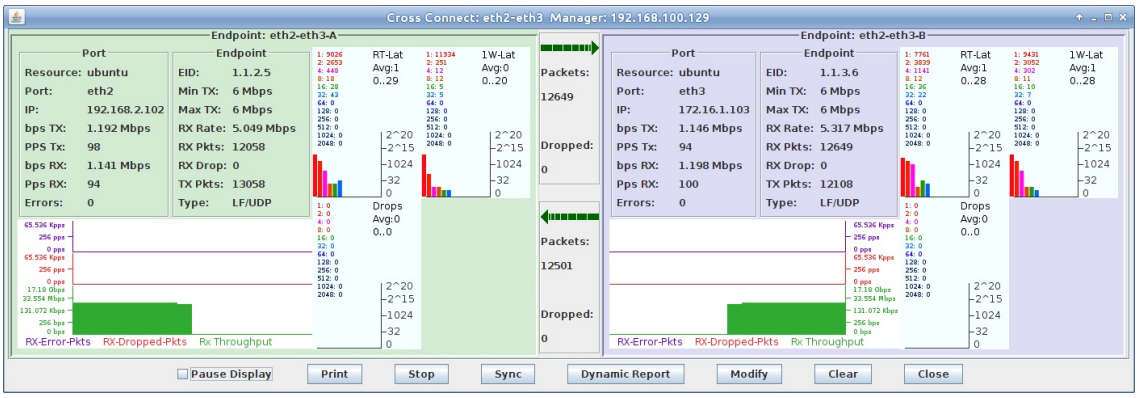
   C. Verify the new Cross-Connect

For more information see LANforge User's Guid: Layer-3 Cross-Connects (FIRE)

5. Run traffic and determine router throughput.
   A. Select the cross-connect on the **Layer-3** tab, click **Start** and then **Display**

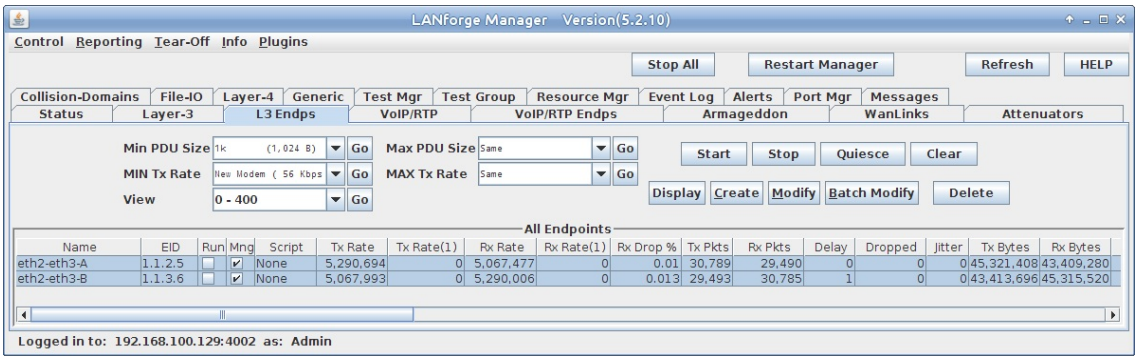


   B. View the Layer-3 cross-connect display

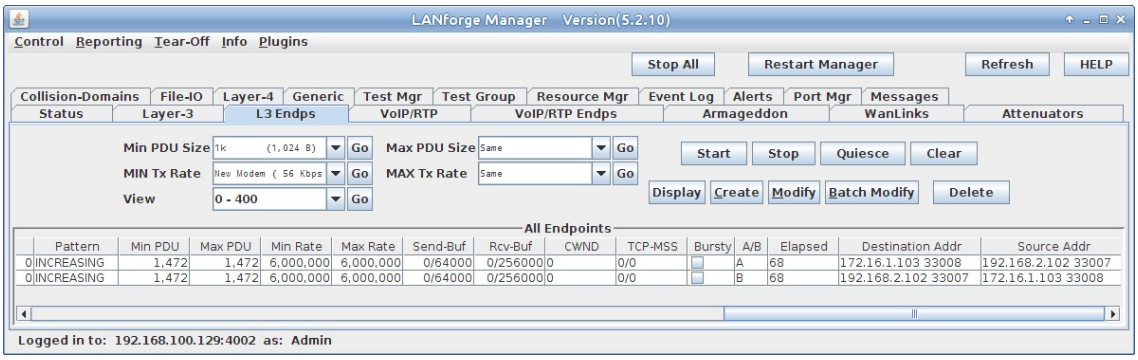


For more information see LANforge User's Guid: Layer-3 Cross-Connect Display

6. For this example, a low performance router was used to illustrate poor throughput, variable latency, and dropped packets.
   A. Go to the **L3 Endps** tab



B. Scroll to the right to view Latency and Dropped Packets



For more information see LANforge User's Guid: Layer-3 Endpoints (FIRE)