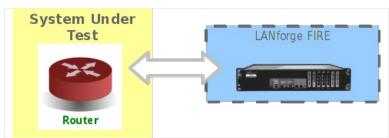


## **Generating Traffic to a Routed Network**

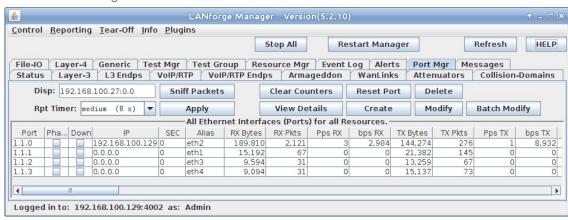
Goal: Set up and run traffic on a routed network.

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

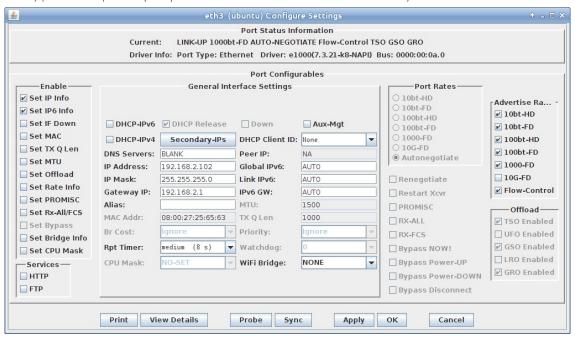




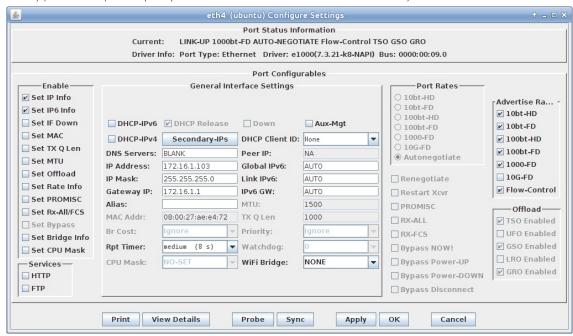
- 1. Connect one LANforge-FIRE port to the router's LAN port.
- 2. Connect another LANforge-FIRE port to the router's WAN port.
- 3. Set up the LANforge ports so that they have valid IP addresses. You can also use DHCP if the DUT supports it.
  - A. Go to the Port Manager



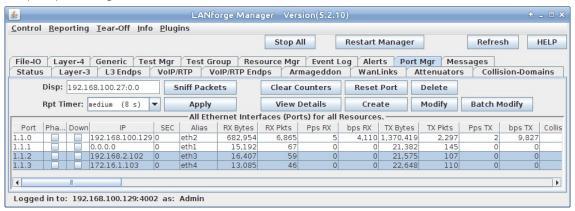
B. Modify port for Endpoint A (eth3). Set a valid network IP Address and Gateway IP.



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

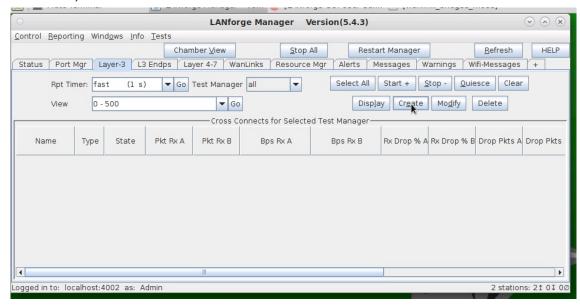


D. Verify the port configuration

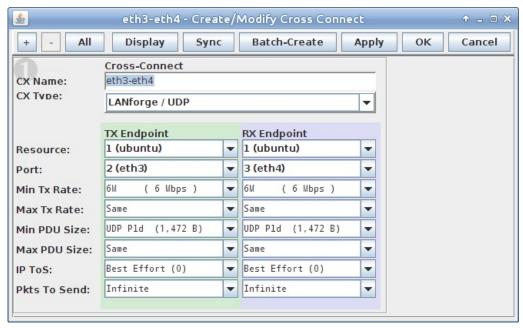


For more information see LANforge User's Guide: Ports(Interfaces)

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



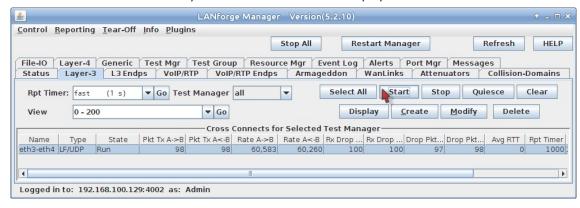
B. Create a new Cross-Connect



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

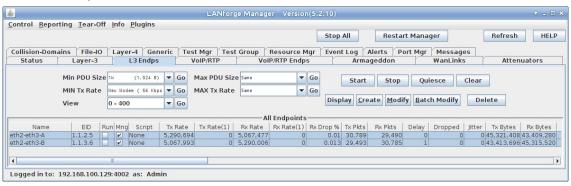


B. View the Layer-3 cross-connect display

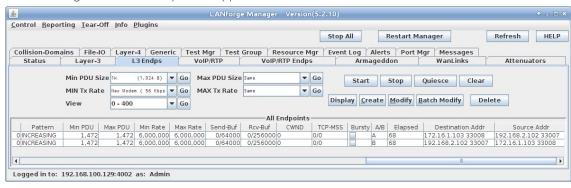


For more information see LANforge User's Guid: Layer-3 Cross-Connect Display

- 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)

Candela Technologies, Inc., 2417 Main Street, Suite 201, Ferndale, WA 98248, USA www.candelatech.com | sales@candelatech.com | +1.360.380.1618