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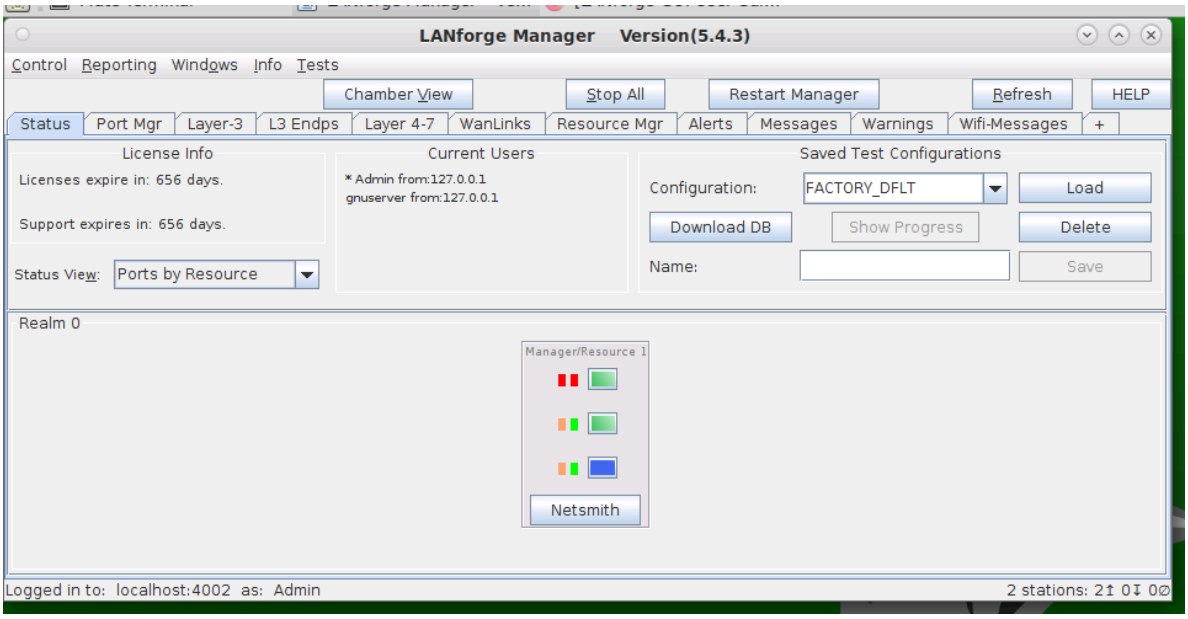
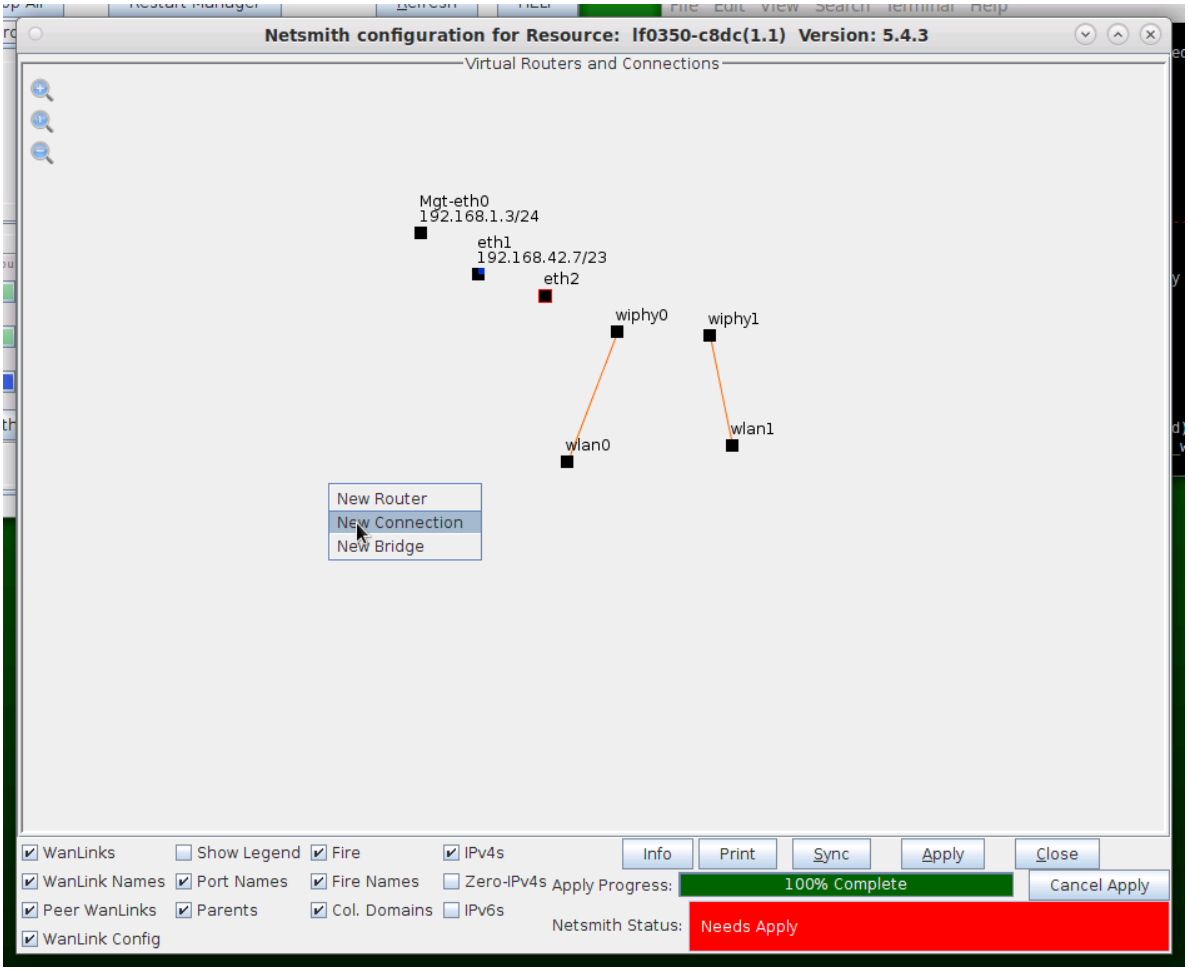
Routed Mode WanLink with WanPaths

Goal: Setup a Routed Mode WanLink with WanPaths.
In this test scenario, LANforge-ICE is used to filter traffic by IP address on a WanLink with the use of WanPaths.

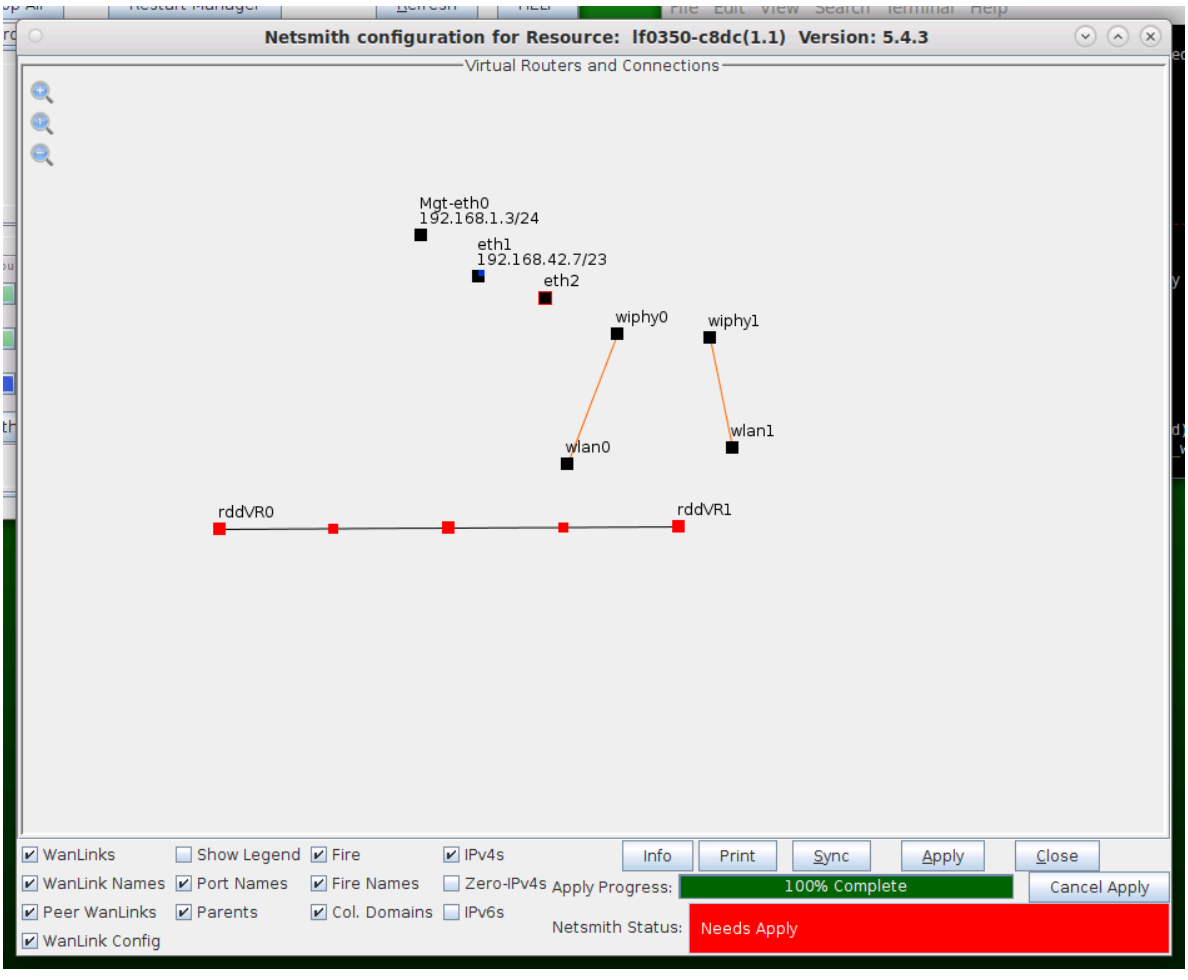
1. Setup a Netsmith connection.
   A. Go to the **Status** tab and click **Netsmith**



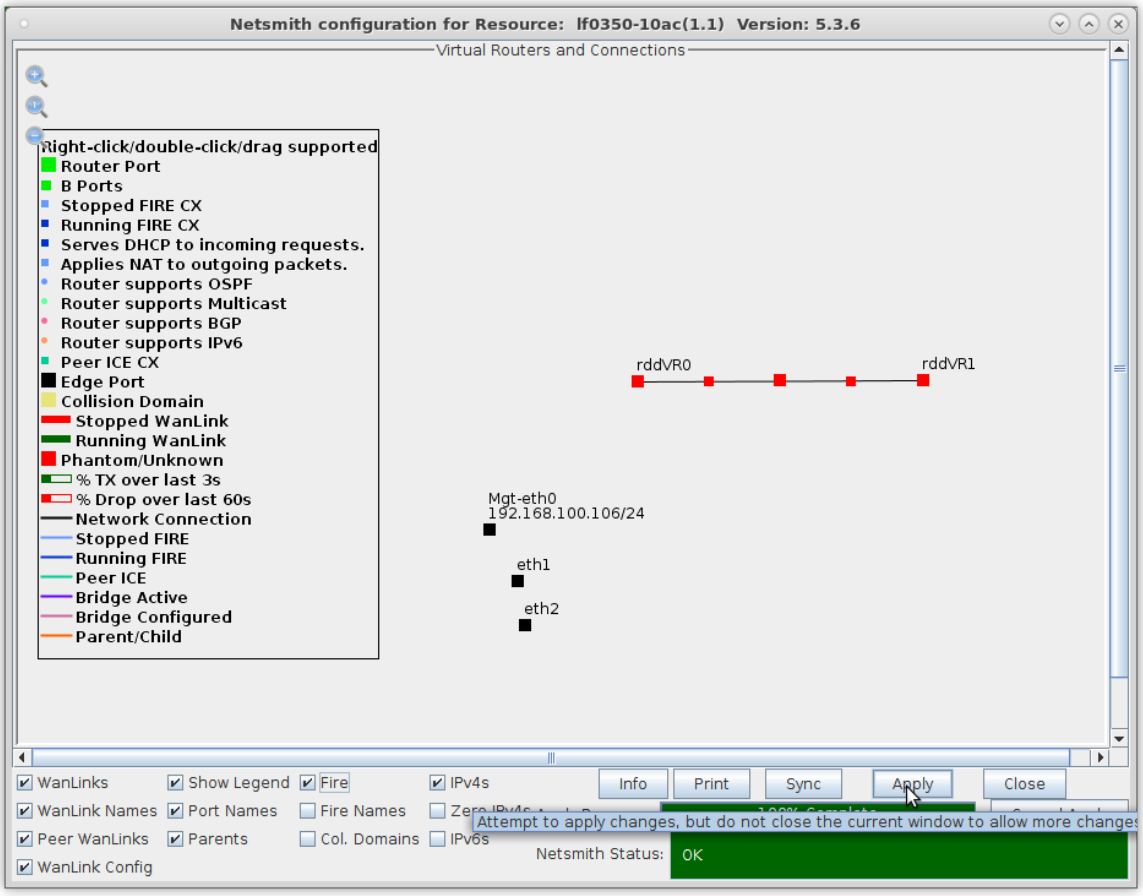
B. Right-click in the Netsmith window and select **New Connection**



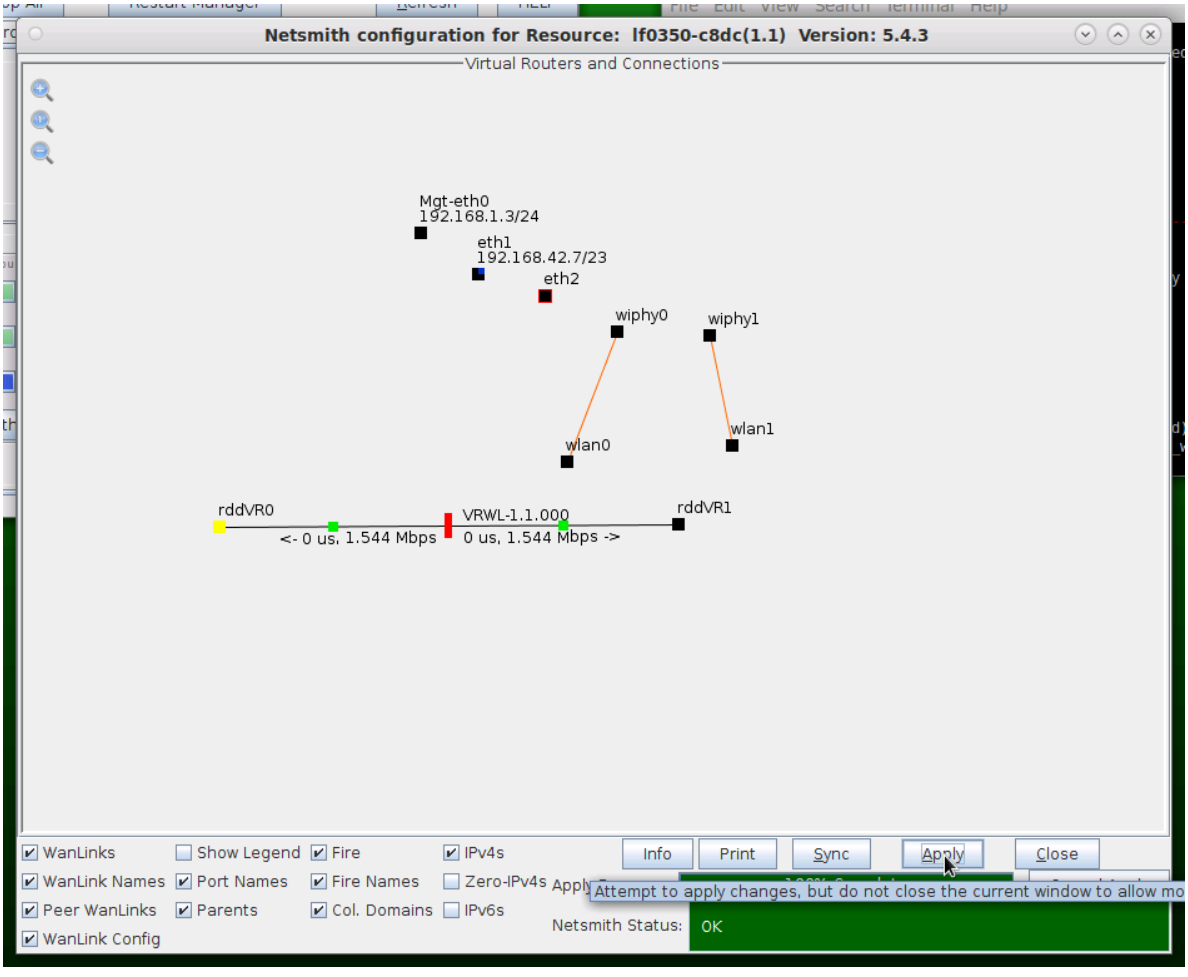
C. Accept defaults, **Auto Create** everything and click **OK**



D. Click **Apply** in the Netsmith window to create the connection

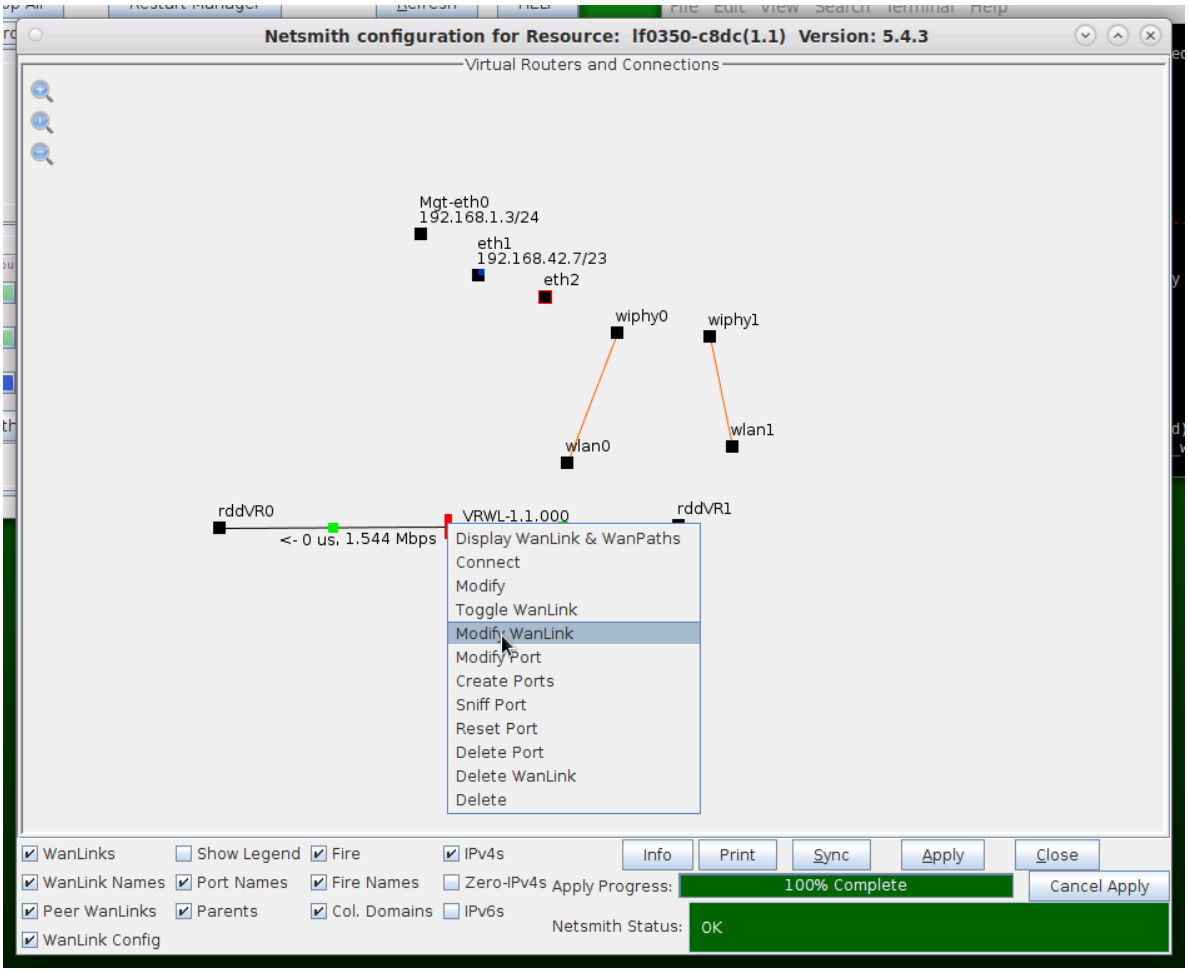


E. The Netsmith window after applying changes

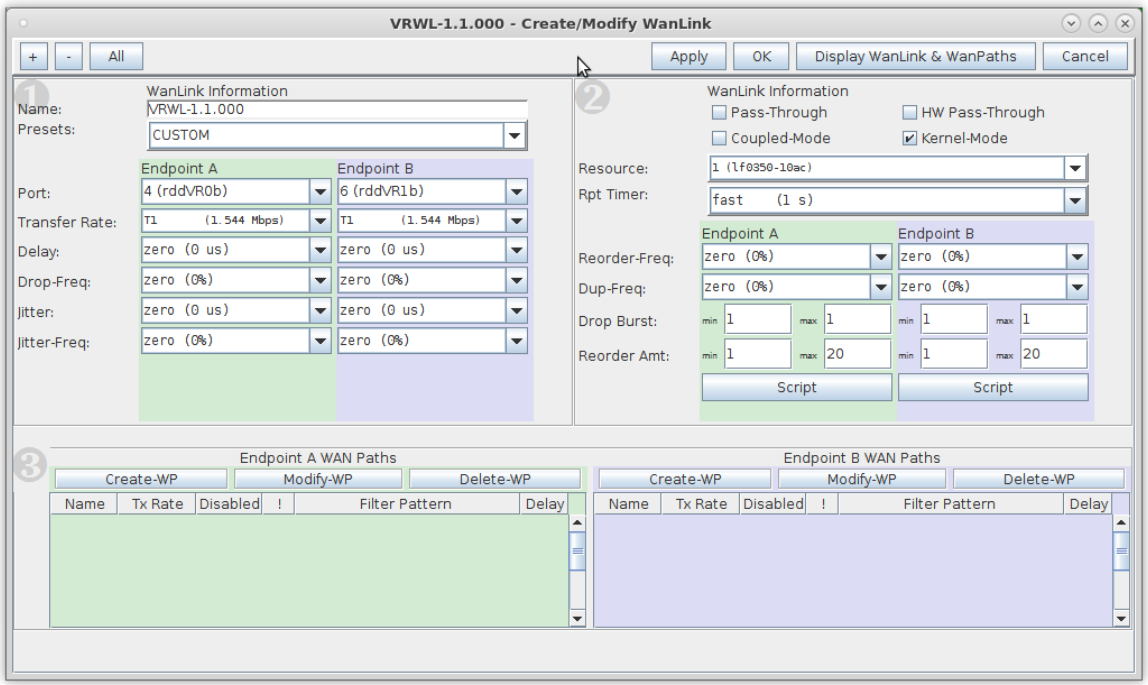


For more information see LANforge-GUI User Guide: Netsmith

2. Setup the WanLink.
   A. Right-click the WanLink and select **Modify WanLink**



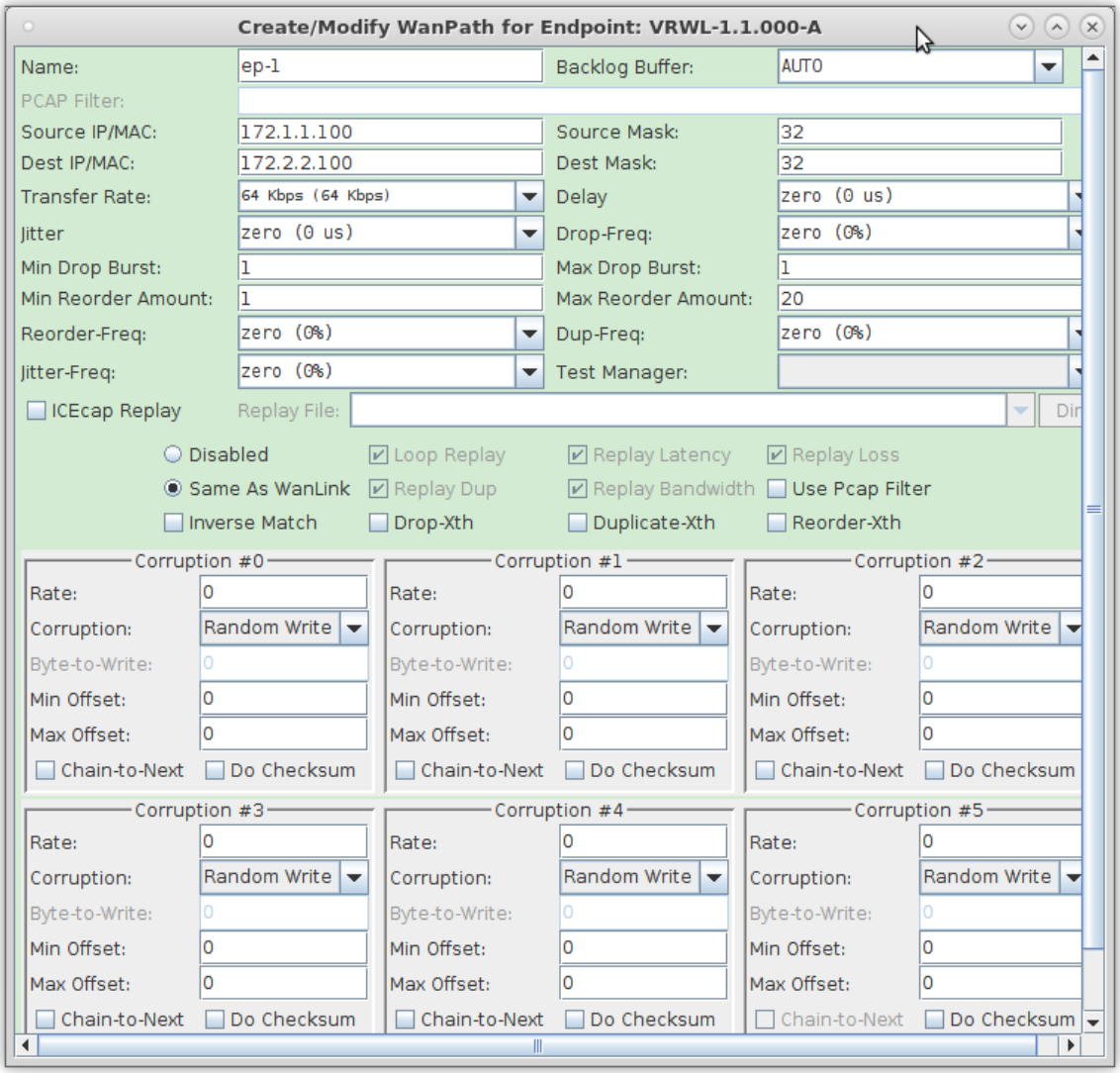
   B. Setup the WanLink with values larger than what each of theWanPaths will use



      A. WanPaths are subordinate to WanLinks. WanLinks, therefore, should be configured with sufficient bandwidth and buffering required by all of its WanPaths
      B. Click **Apply** and leave the *Create/Modify WanLink* window open

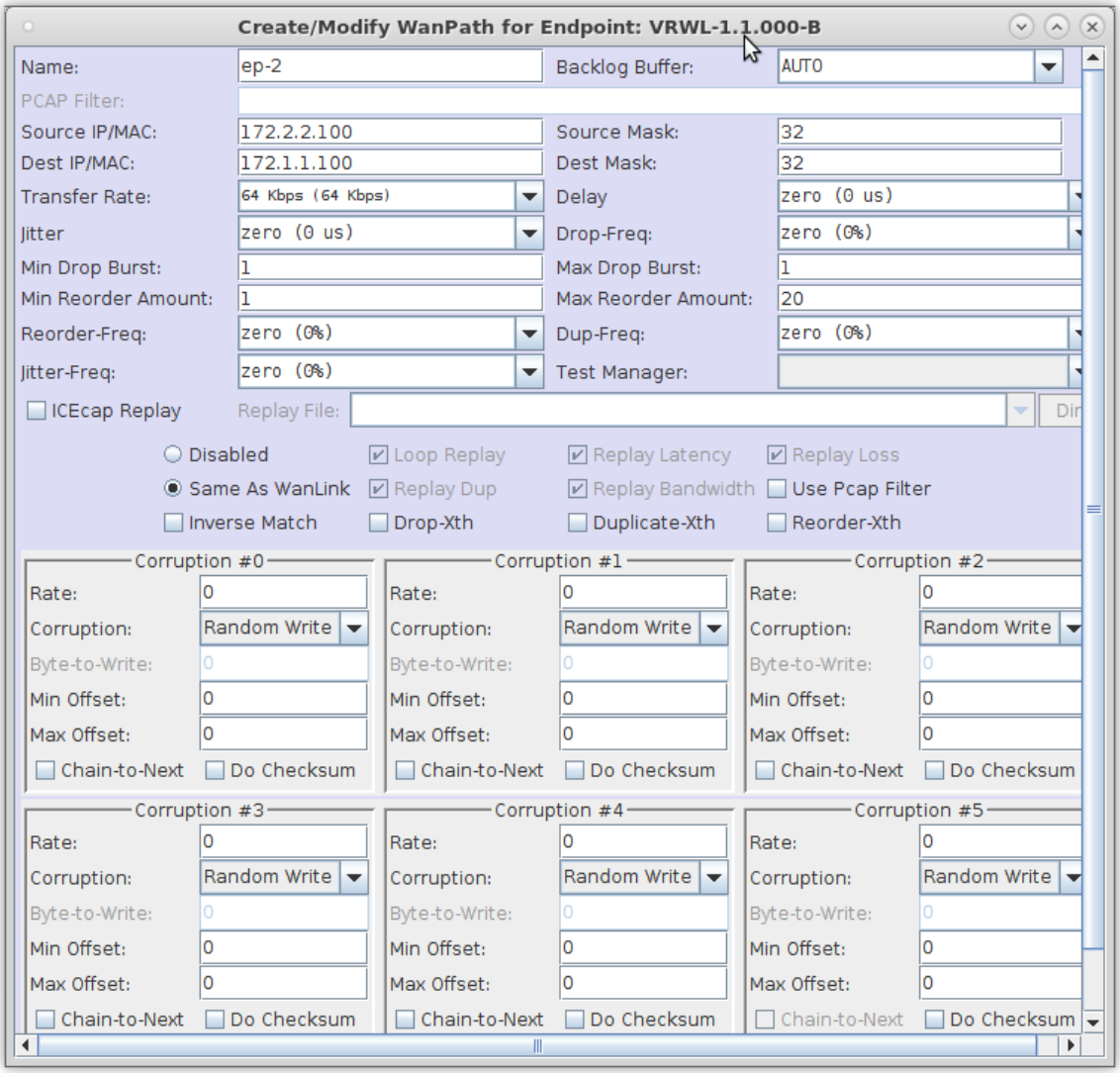
For more information see LANforge-GUI User Guide: WanLinks

3. Setup the WanPaths.
   A. Click **Create-WP** on Entry Point A to create a new WanPath on this WanLink



   A. **NOTE**: In order to filter by specific IP address, use a Source and Dest Mask of 32 to exactly match the IP coming in on the Entry Point
   B. Click **OK** to create the WanPath

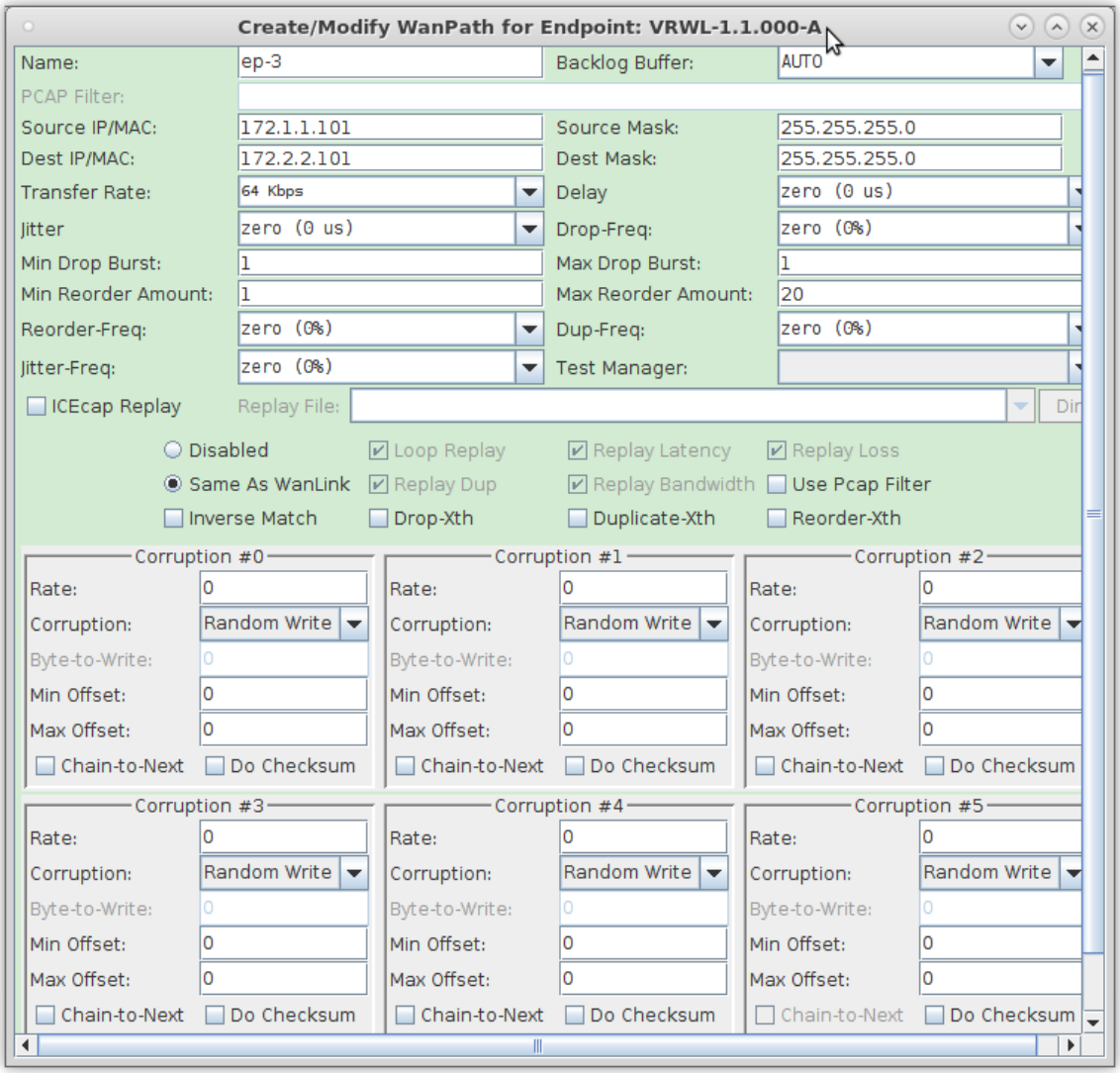
B. Click **Create-WP** on Entry Point B to create a new WanPath on this WanLink



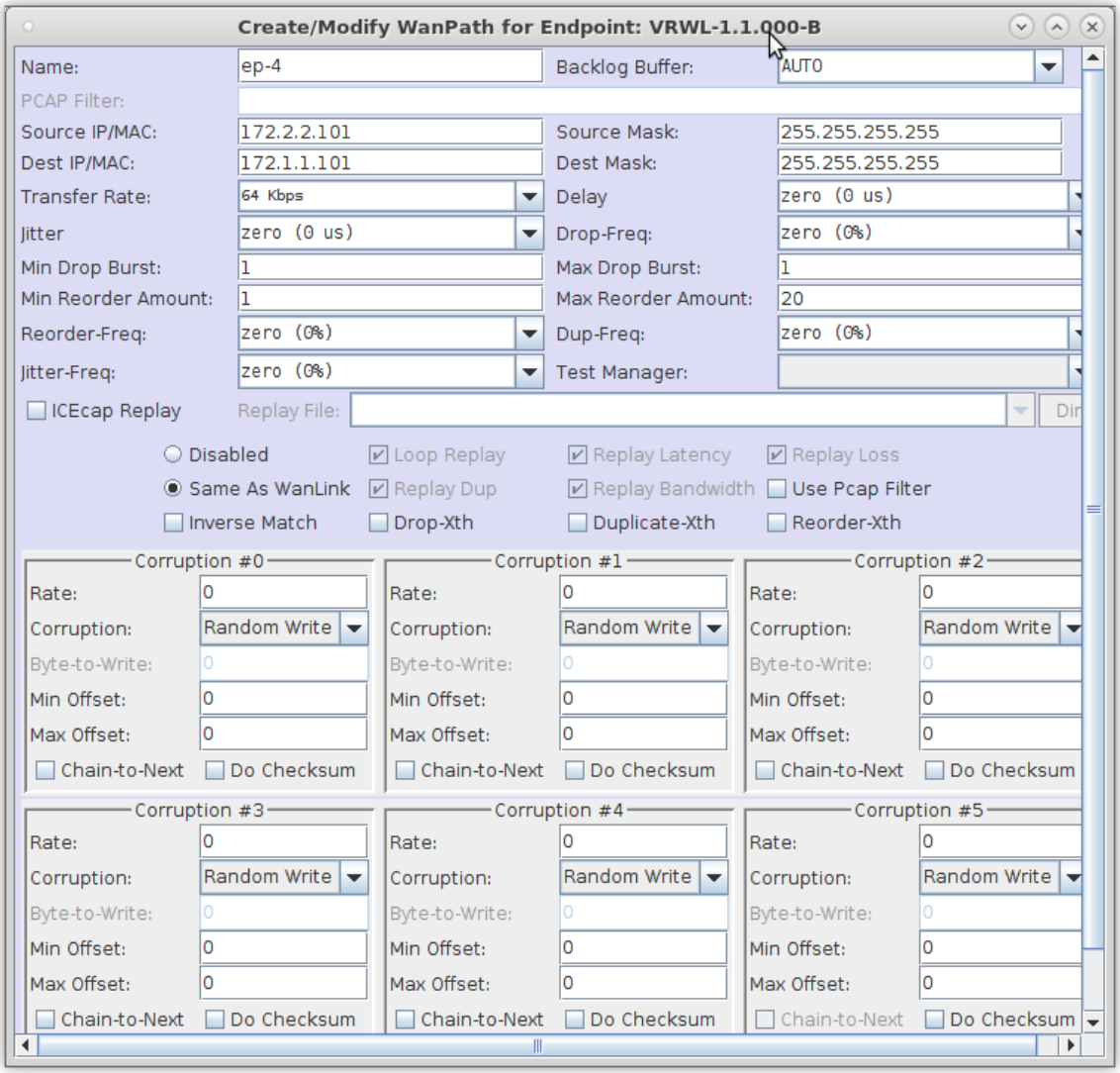
A. **NOTE**: The Source and Destination IPs for this WanPath are the reverse of those for Entry Point A

B. Click **OK** to create the WanPath

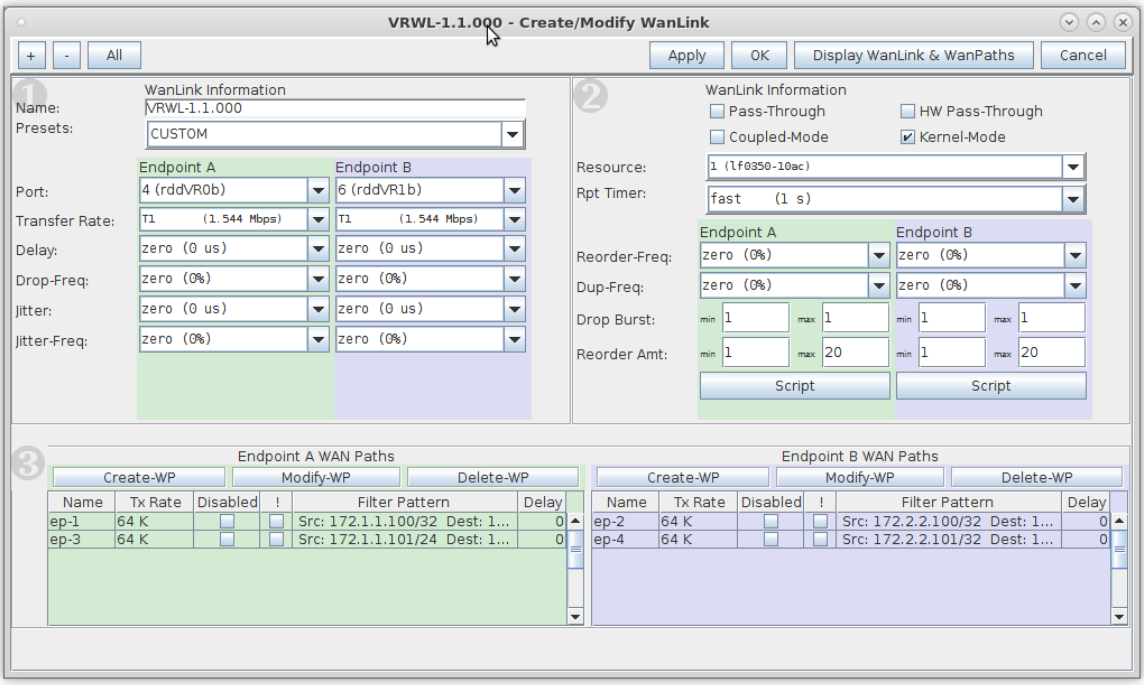
C. Create a second WanPath for this WanLink using the next set of IP addresses



D. Reverse the Source and Destination IPs for this corresponding WanPath

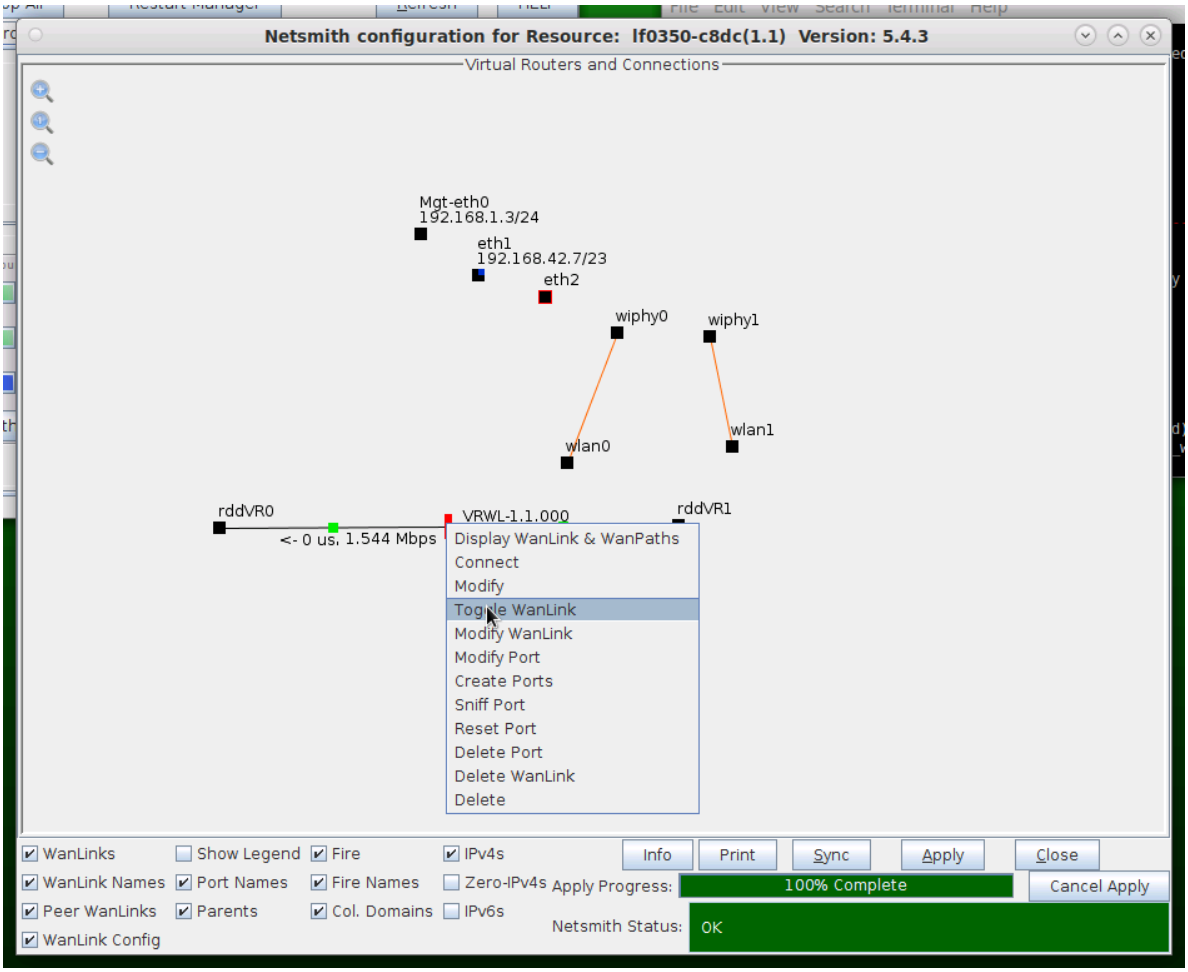


E. Verify that the WanPaths on this WanLink are setup correctly, then click **OK** on the *Create/Modify WanLink* window shown here

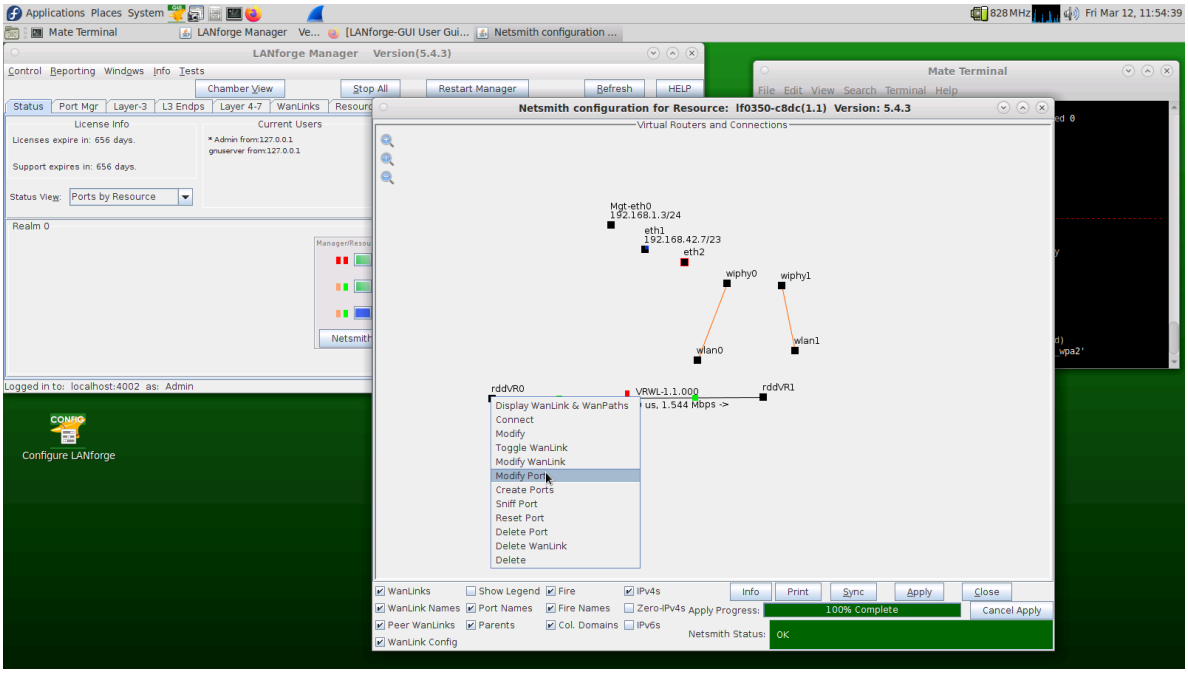


For more information see LANforge-GUI User Guide: WanLinks

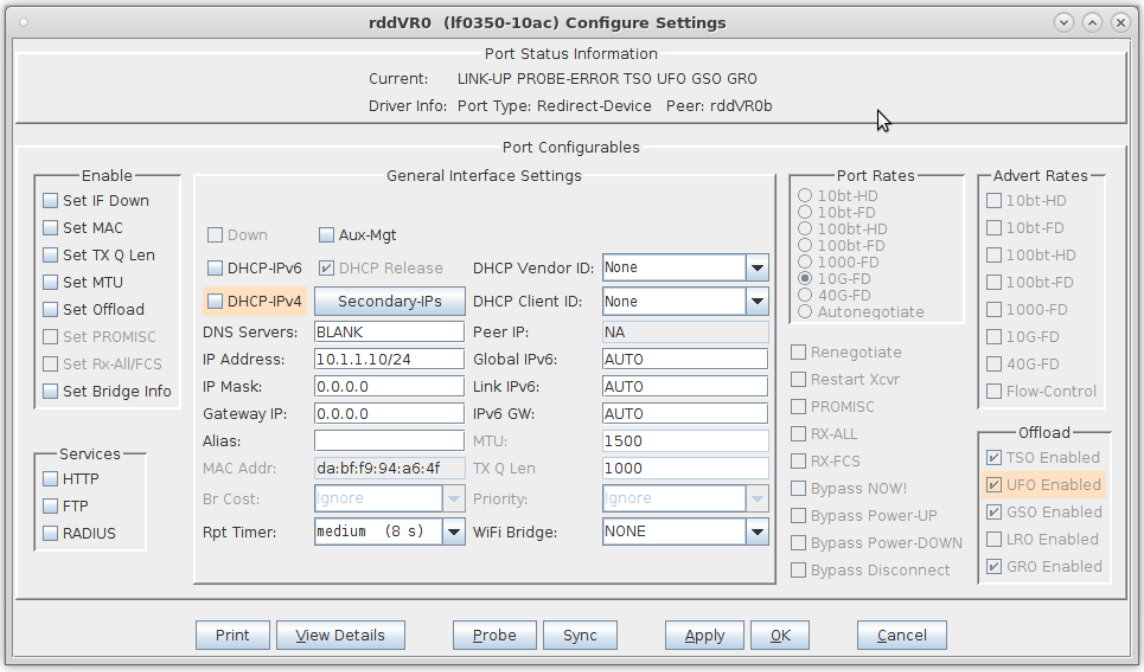
4. Setup the ports with IP addresses.
   A. Right-click on the WanLink and select **Toggle Wanlink**



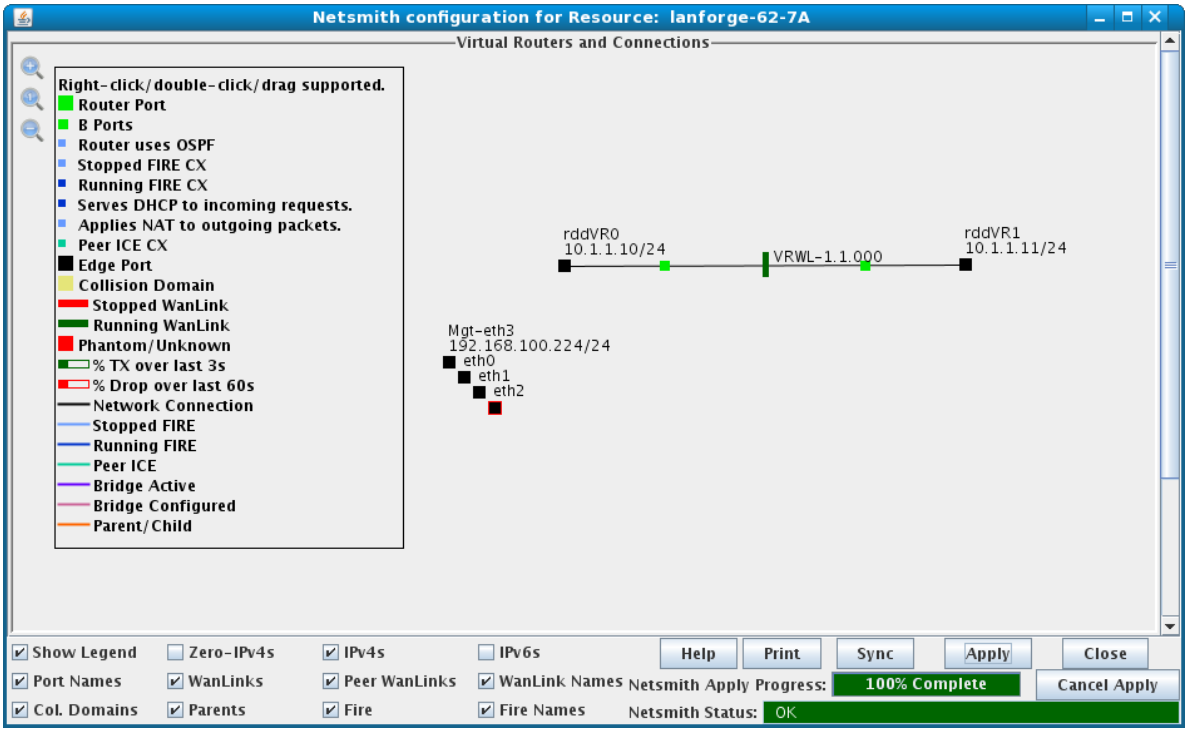
   B. Right-click port `rddVR0` and select **Modify Port**



C. Setup an IP address that is on a different network than the WanPath entry points

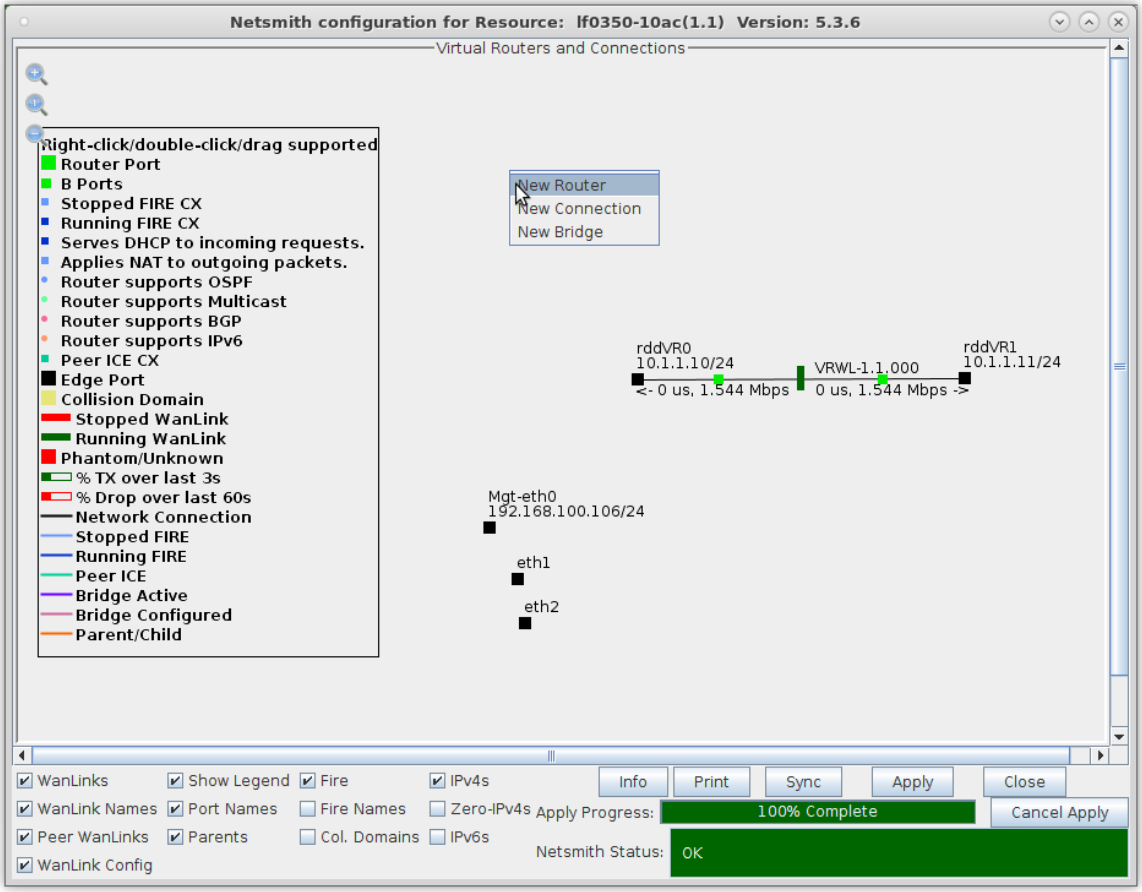


D. Setup an IP address on port `rddVR1` that is on the same network as `rddVR0`

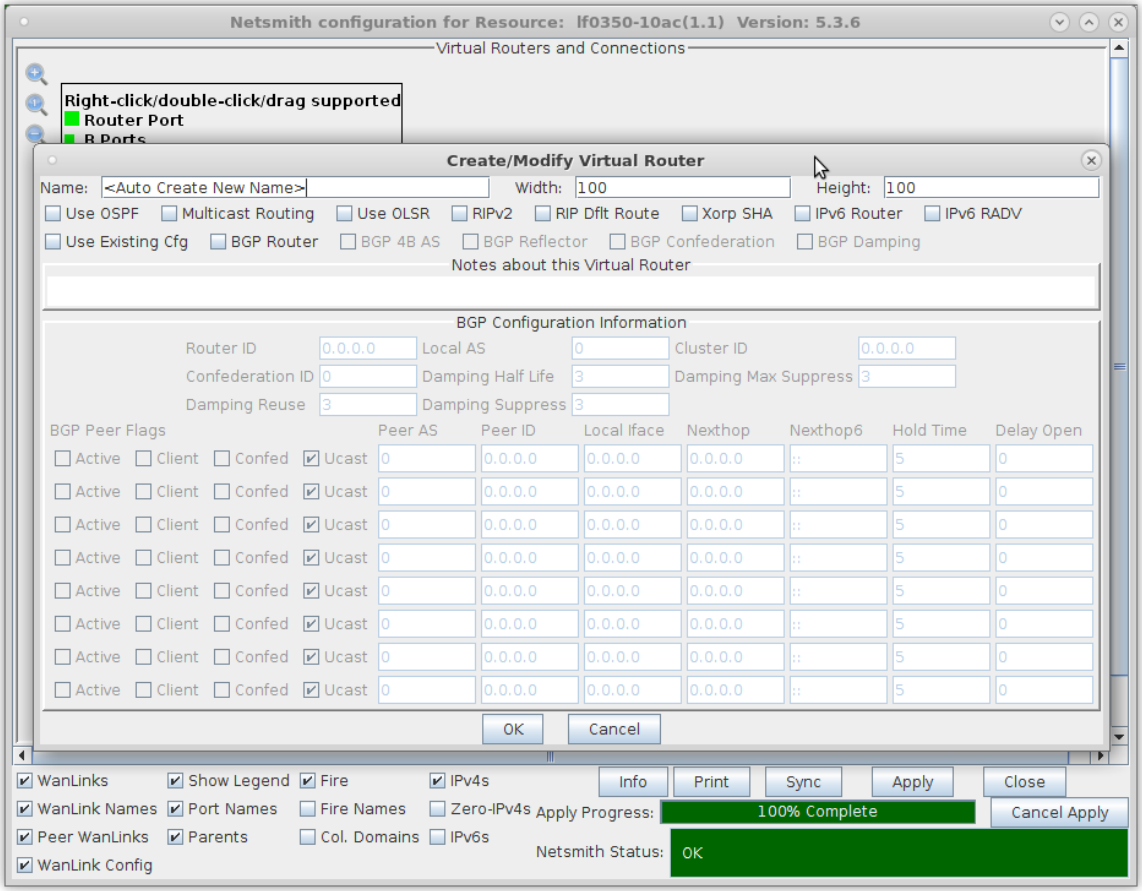


For more information see LANforge-GUI User Guide: WanLinks

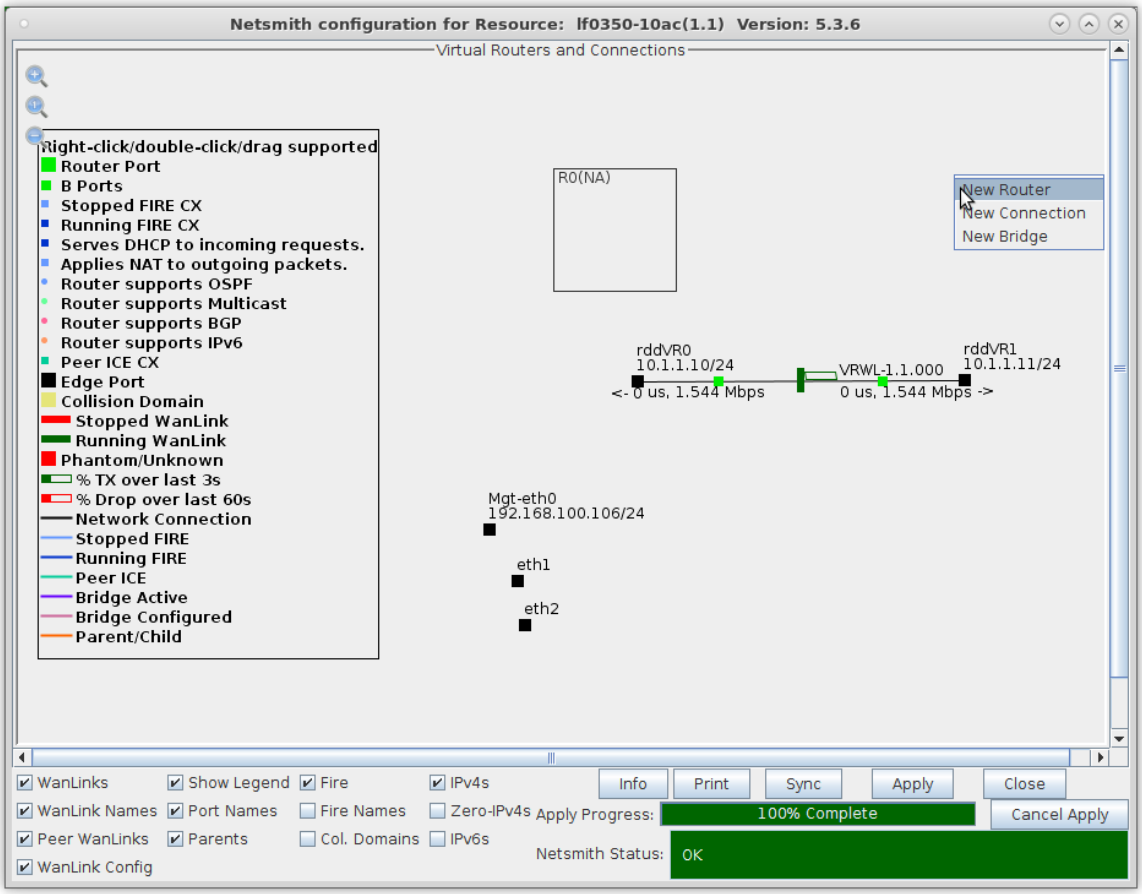
5. Add the Virtual Routers.
   A. Right-click in the Netsmith window and select **New Router**



   B. Accept the defaults or change the Virtual Router name and graphical size



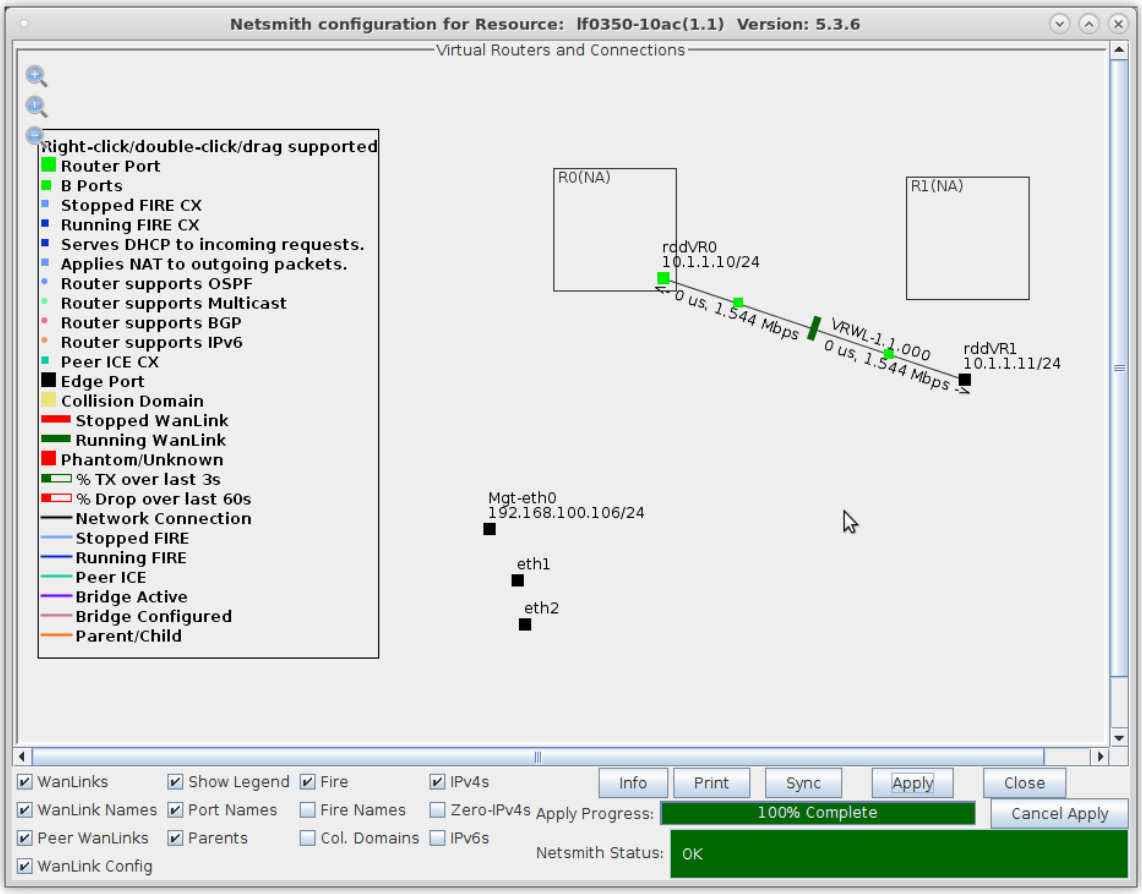
C. Click the **Apply** button and repeat for the second Virtual Router



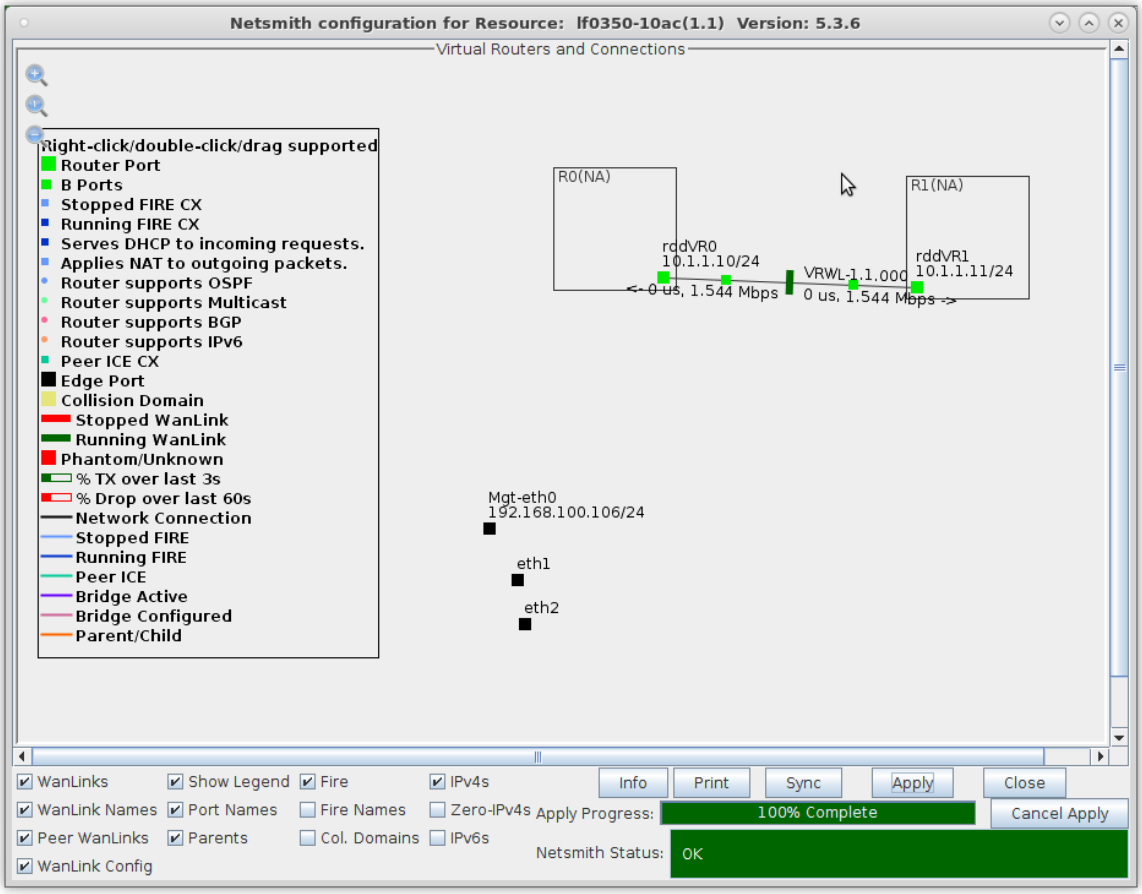
A. **NOTE**: After making any changes to the Netsmith window, you must click**Apply** or your changes will NOT be implemented and could be lost

B. **NOTE**: Clicking **Sync** makes sure any changes are synchronized with the current database

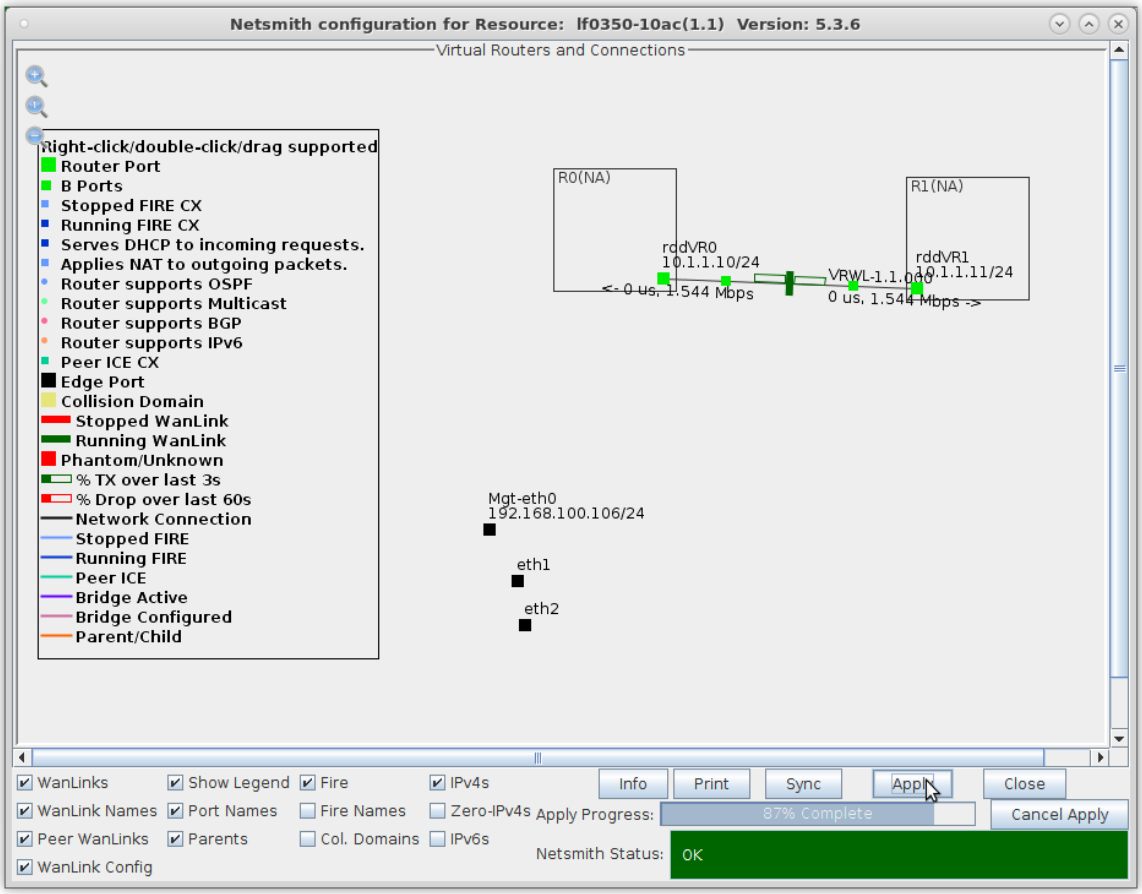
D. Left-click `rddVR0` and drag it inside `Router R0(1)`



E. Left-click `rddVR1` and drag it inside `Router R1(2)`

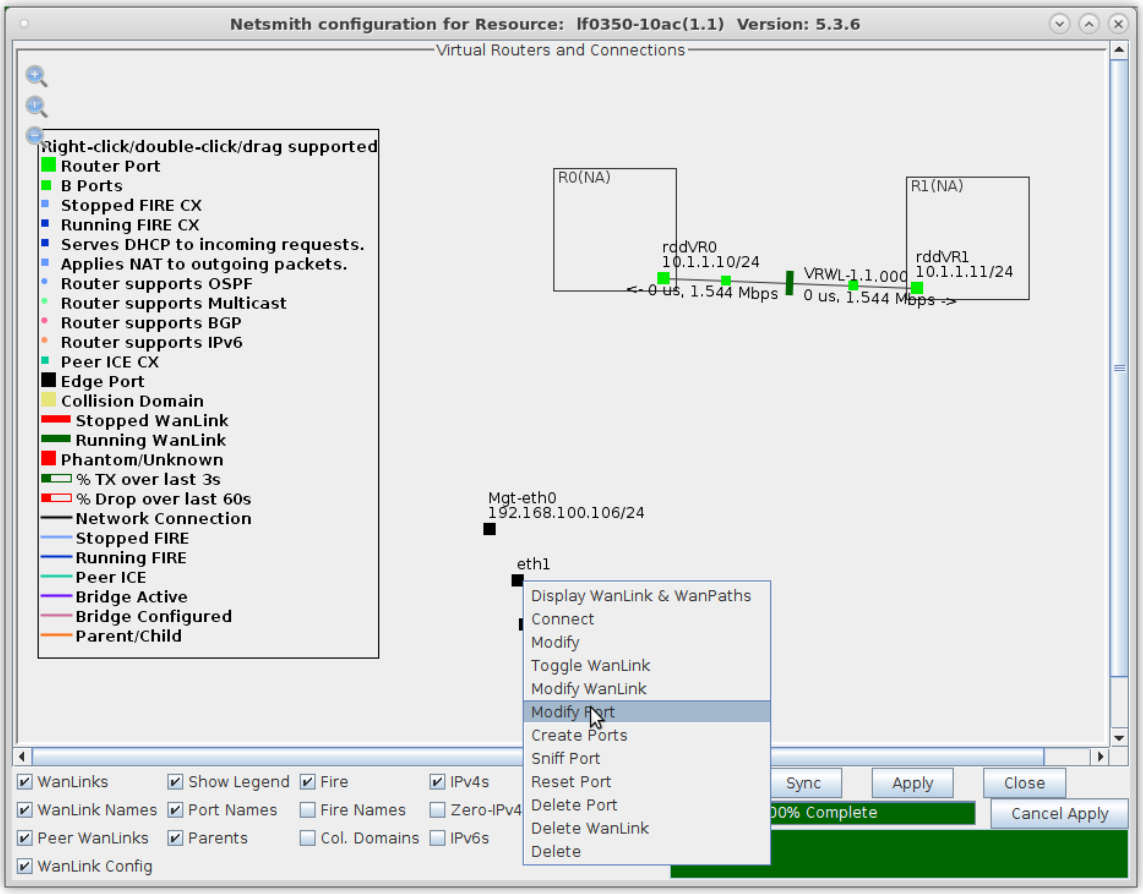


F. Apply your changes in Netsmith

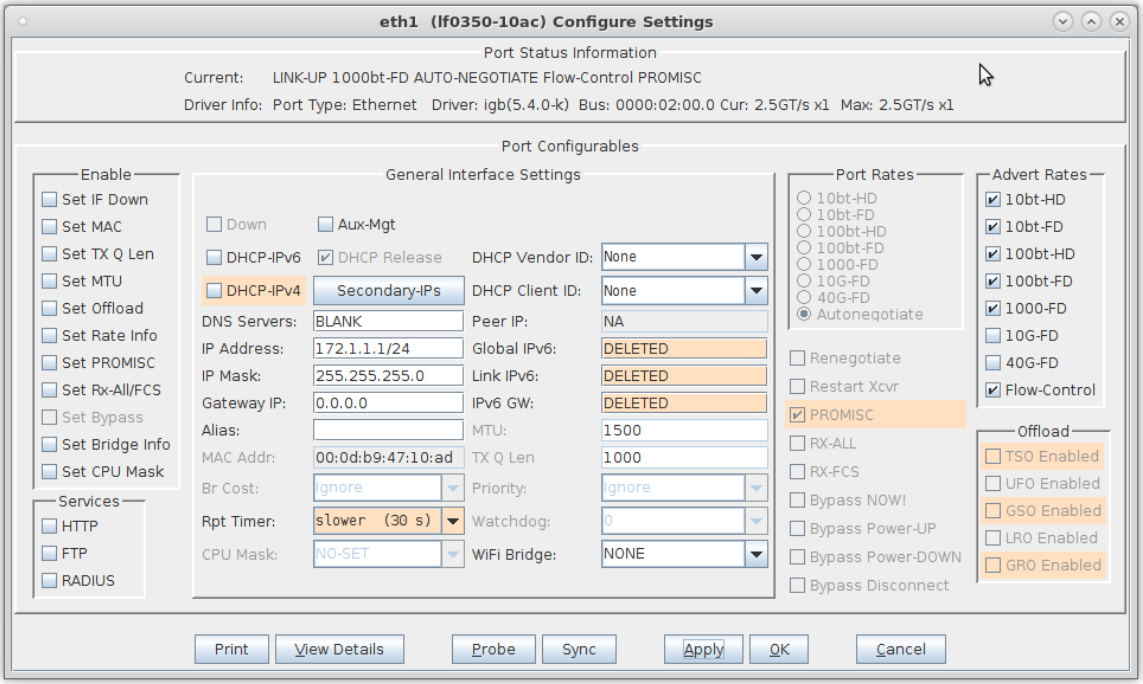


For more information see LANforge-GUI User Guide: WanLinks

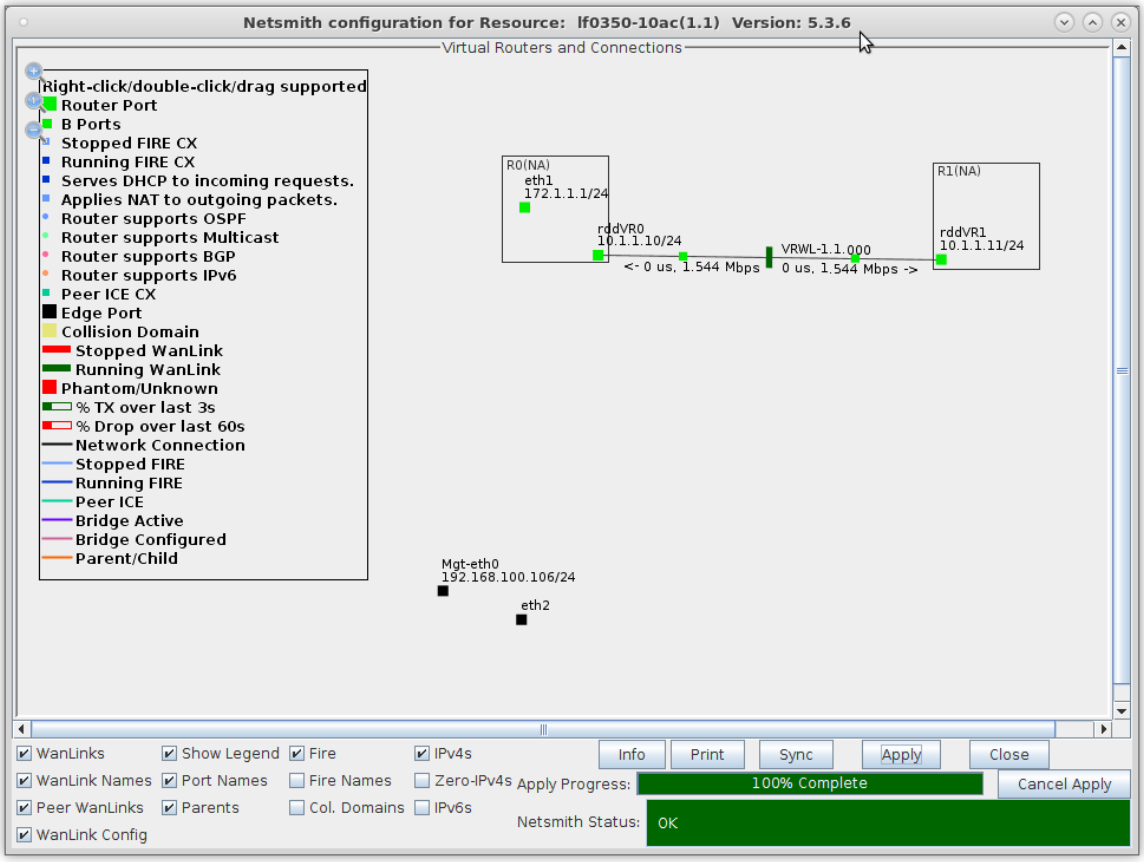
6. Setup the external interfaces.
   A. *Right-click* port `eth1` and select **Modify Port**



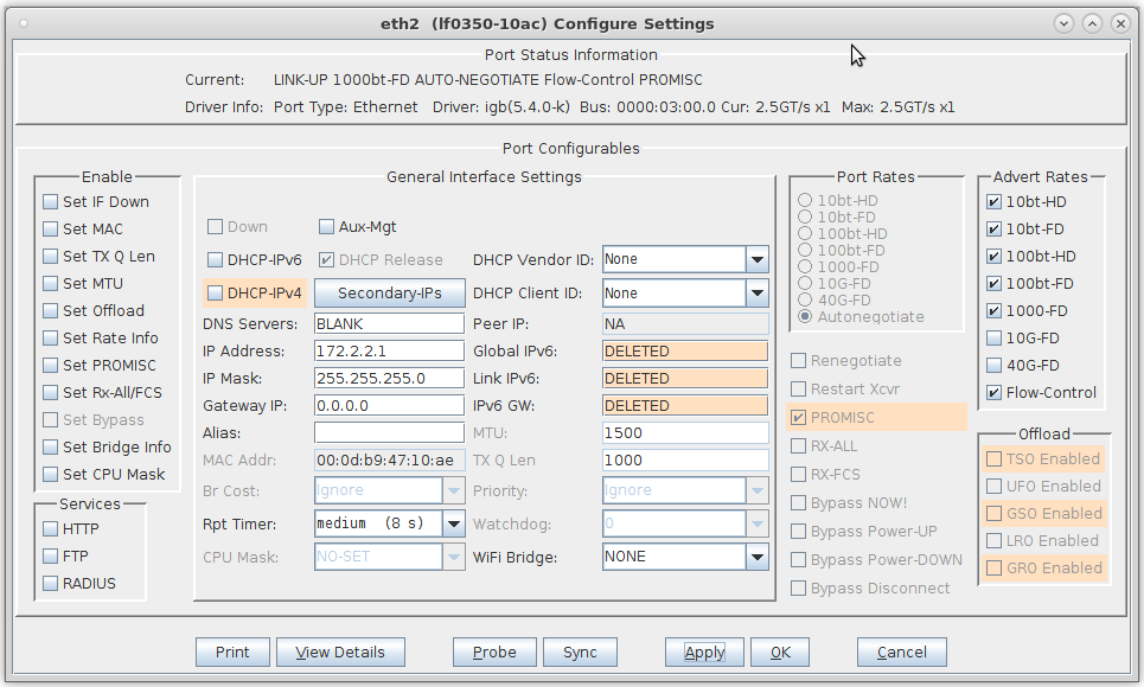
   B. Setup `eth1` with a valid IP address and IP mask that is on the same network as the WanPath entry points `ep-1` and `ep-3`



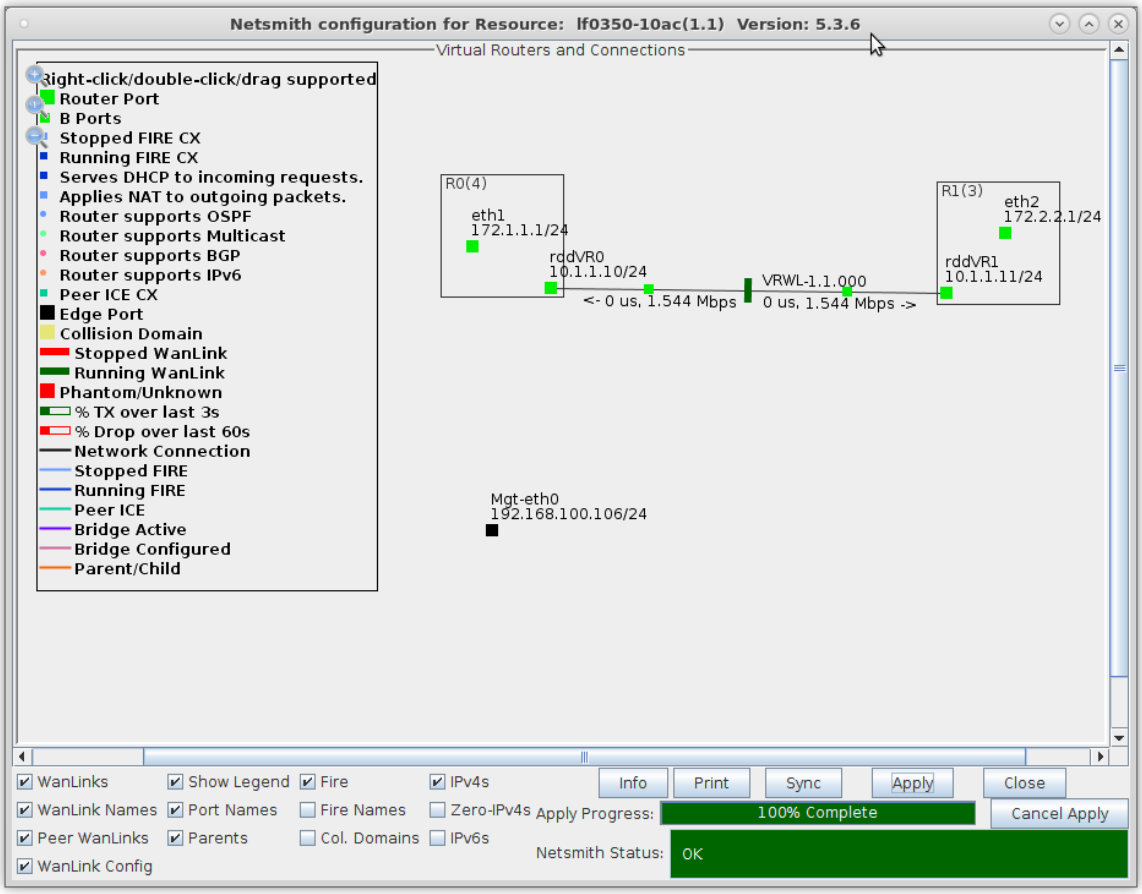
C. *Left-click* port `eth1` and drag it inside `Router R0(1)`



D. Setup `eth2` with a valid IP address and IP mask that is on the same network as the WanPath entry points `ep-2` and `ep-4`



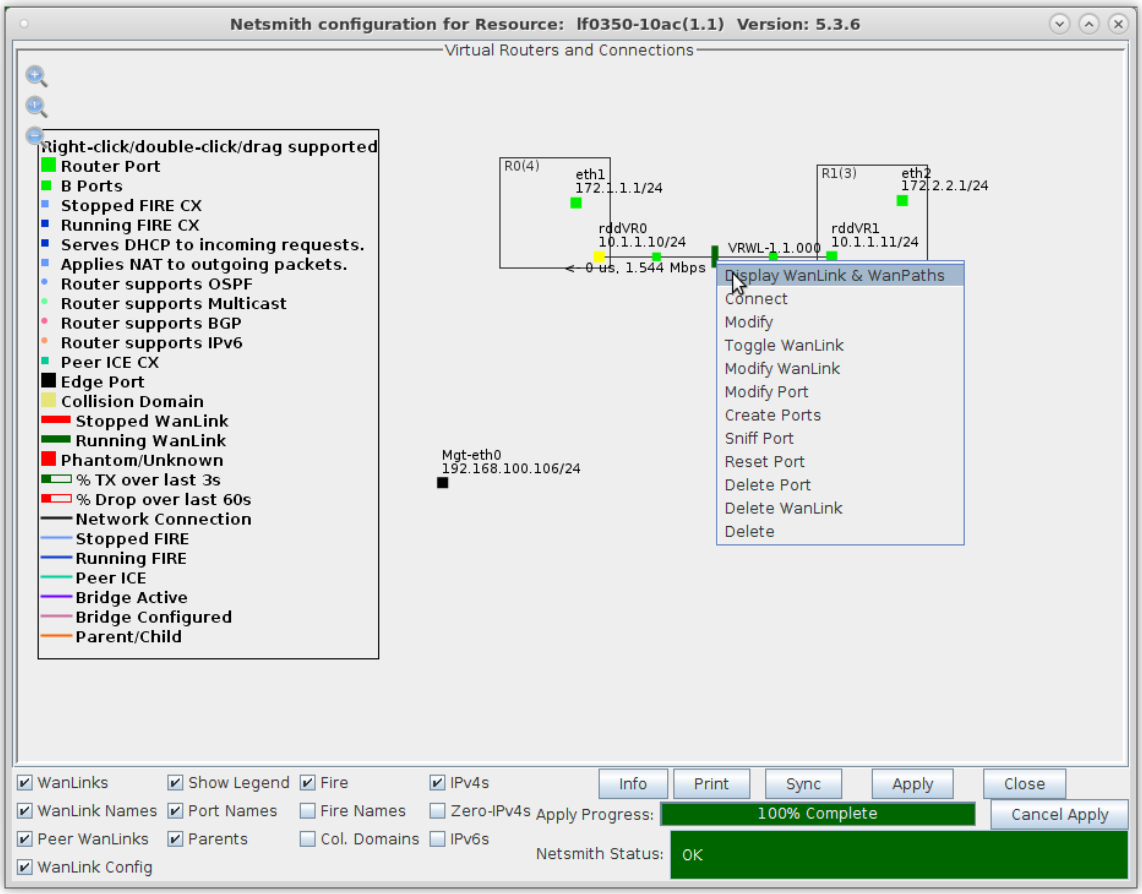
E. Drag `eth2` inside `Router R1(2)` and Apply changes in Netsmith



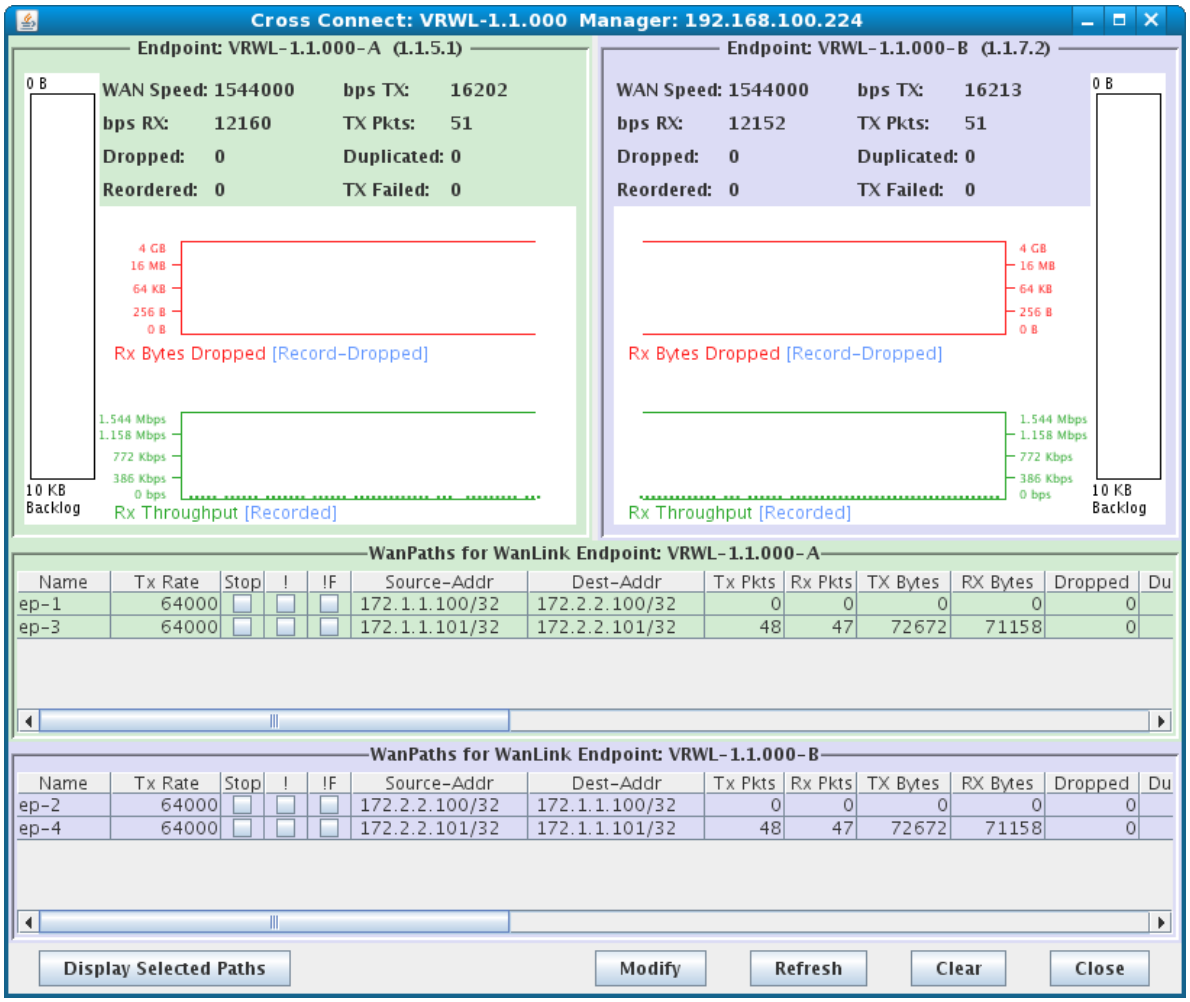
For more information see LANforge-GUI User Guide: WanLinks

7. Run traffic to LANforge-ICE ports `eth1` and `eth2`, then display results. Refer to the LANforge FIRE Cookbook to run traffic.

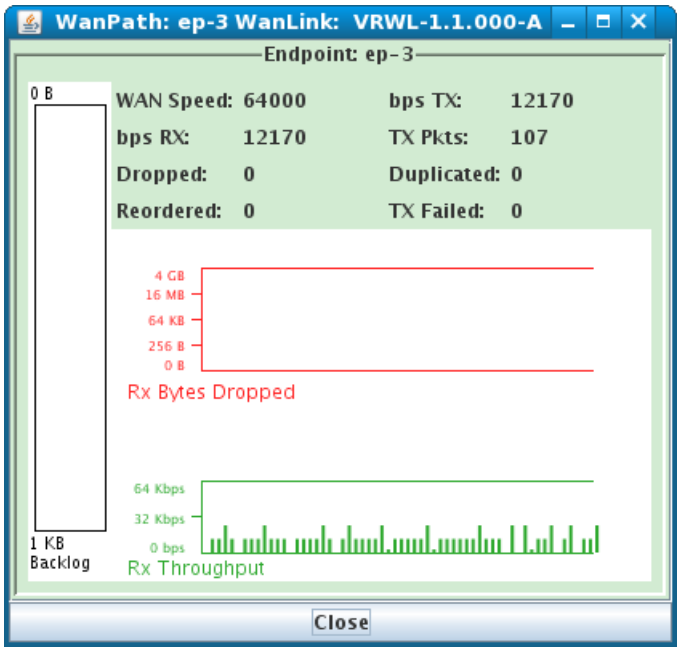
A. Right-click the WanLink and select **Display Wanlink & WanPaths**



B. The lower half of the WanLink display shows traffic passing on WanPath entry points `ep-3` and `ep-4` and other IP address are excluded from passing on the WanLink



C. Select a WanPath and click **Display Selected Paths** in the lower left corner of the WanLink display window



For more information see LANforge-GUI User Guide: WanLinks