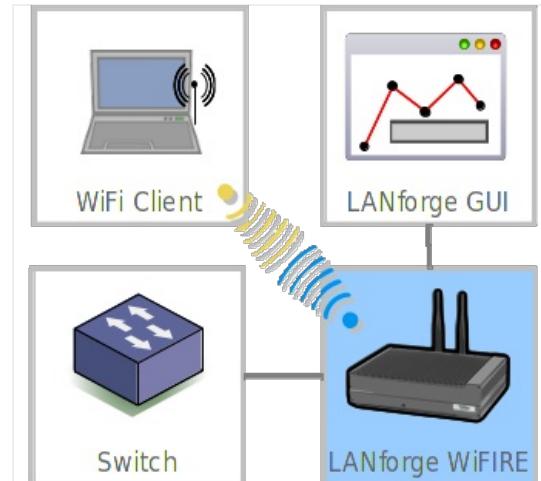
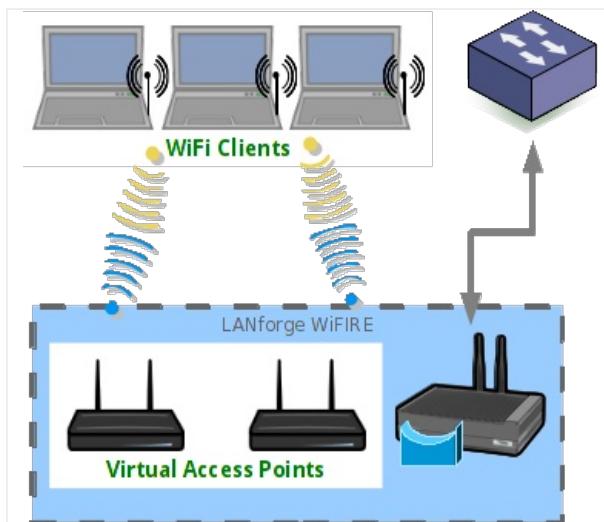


## Create Virtual AP in Bridge Mode

**Goal:** Create a Virtual AP and set it up to bridge with the wired Ethernet port.

Create a Virtual AP and set it up to bridge with the wired Ethernet port. This example uses the LANforge CT523 but the procedure should work on all CT521, CT522, CT523, CT525 and similar systems.



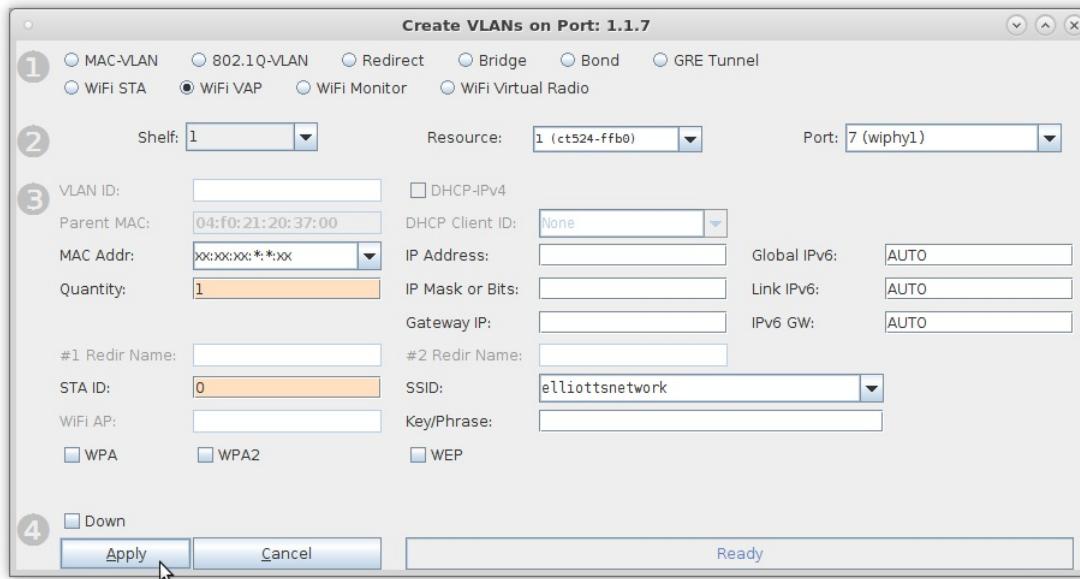
1. Create a virtual AP on wiphy1.

A. Go to the Port Manager

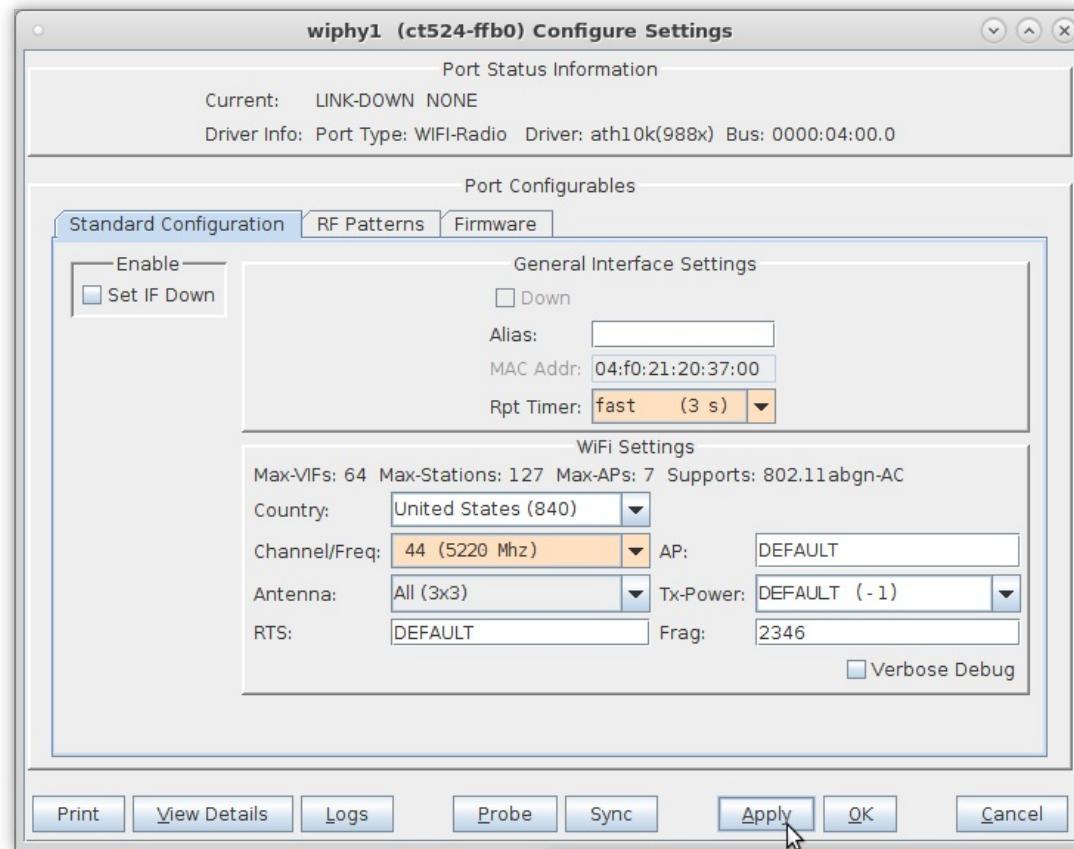
Port	Pha...	Down	IP	SEC	Alias	Parent Dev	RX Bytes	RX Pkts	Pps RX	bps RX	TX Bytes	TX Pkts	Pps TX
1.1.0			192.168.100.239	0	eth0		14,160,660...	14,169...	7	39,006	1,022,729...	8,469,733	5
1.1.1			0.0.0.0	0	eth1		18,374	89	0	196	1,516,866	14,599	0
1.1.2			0.0.0.0	0	eth2		7,842,954...	5,180,2...	0	0	47,057,254...	31,081...	0
1.1.3			0.0.0.0	0	eth3		47,056,710...	31,081...	0	0	7,842,959...	5,180,2...	0
1.1.4			0.0.0.0	0	eth4		0	0	0	0	3,118	35	0
1.1.5			0.0.0.0	0	eth5		0	0	0	0	2,590	29	0
1.1.6			0.0.0.0	0	wiphy0		0	0	0	0	66,739,308	2,893,286	0
1.1.7			0.0.0.0	0	wiphy1		0	0	0	0	0	0	0
1.2.0			192.168.100.164	0	eth0		725,106	7,851	8	5,792	4,869,024	5,509	5
1.2.1		✓	0.0.0.0	0	eth1		10,602	31	0	0	2,434	31	0
1.2.2		✓	0.0.0.0	0	wiphy0		0	0	0	0	0	0	0
1.2.3		✓	0.0.0.0	0	wlan0	wiphy0	0	0	0	0	0	0	0

- B. Select port **wiphy1** and click **Create**.

C. Select the **Wifi VAP** button, then enter **MAC**, **Quantity**, **STA ID**, and **SSID**:



D. Configure the radio's channel (which will apply to the VAP that was just created). Select the **wiphy1** interface in the Port-Mgr tab and click **Modify**. Select the channel, and optionally the country-code, and then press **OK**.



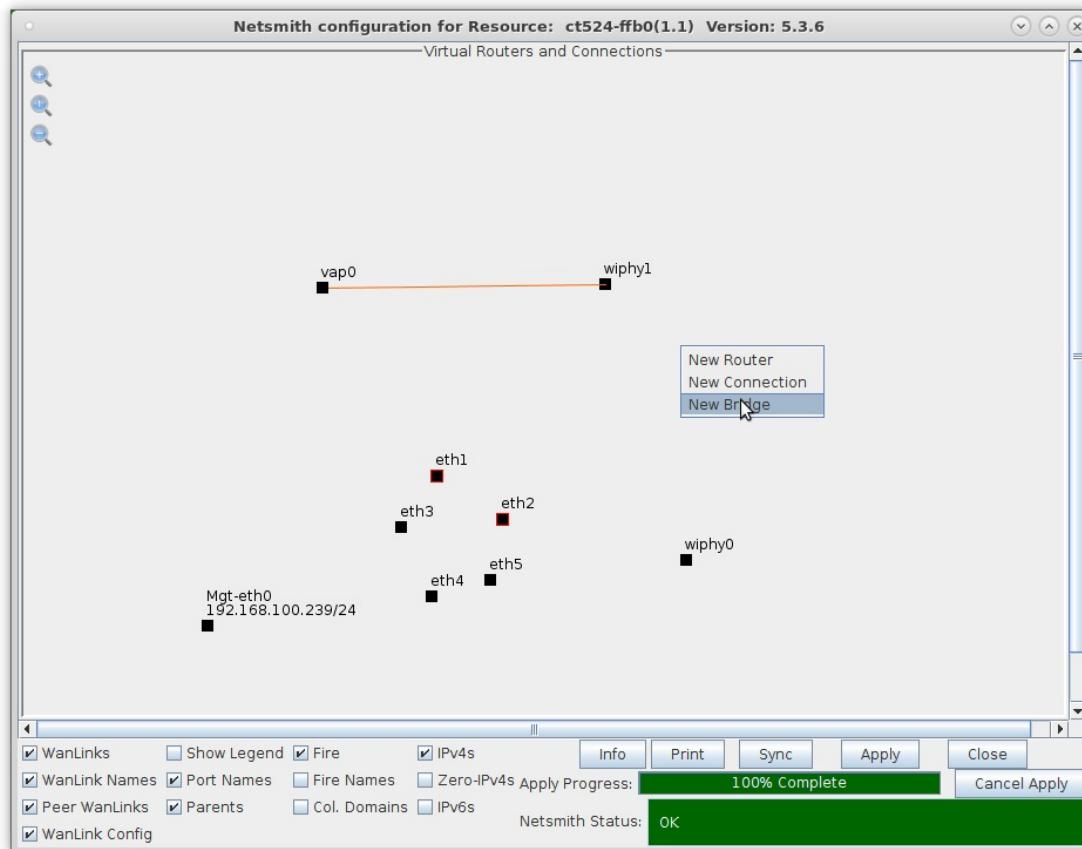
For more information see [LANforge User's Guide: Ports \(Interfaces\)](#)

2. Use the Netsmith feature to create a bridge device to hold the VAP and the Ethernet Port.

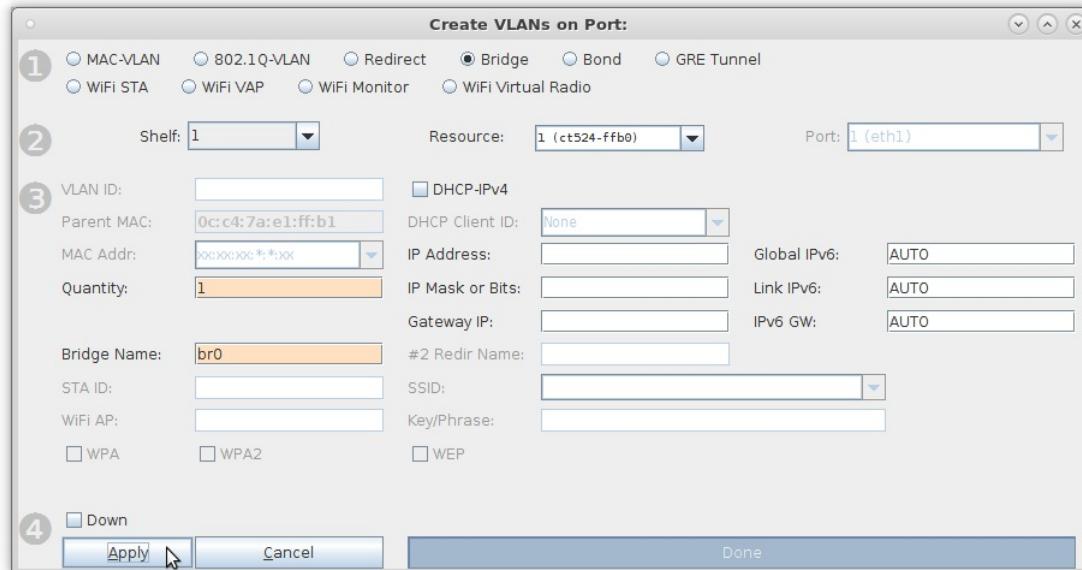
A. Go to the **Status** tab, and click the **Netsmith** button for Resource 1.

B. Drag the existing interfaces into a more pleasing layout and click **Apply**

C. Right-click in empty space and chose the **New Bridge** option.

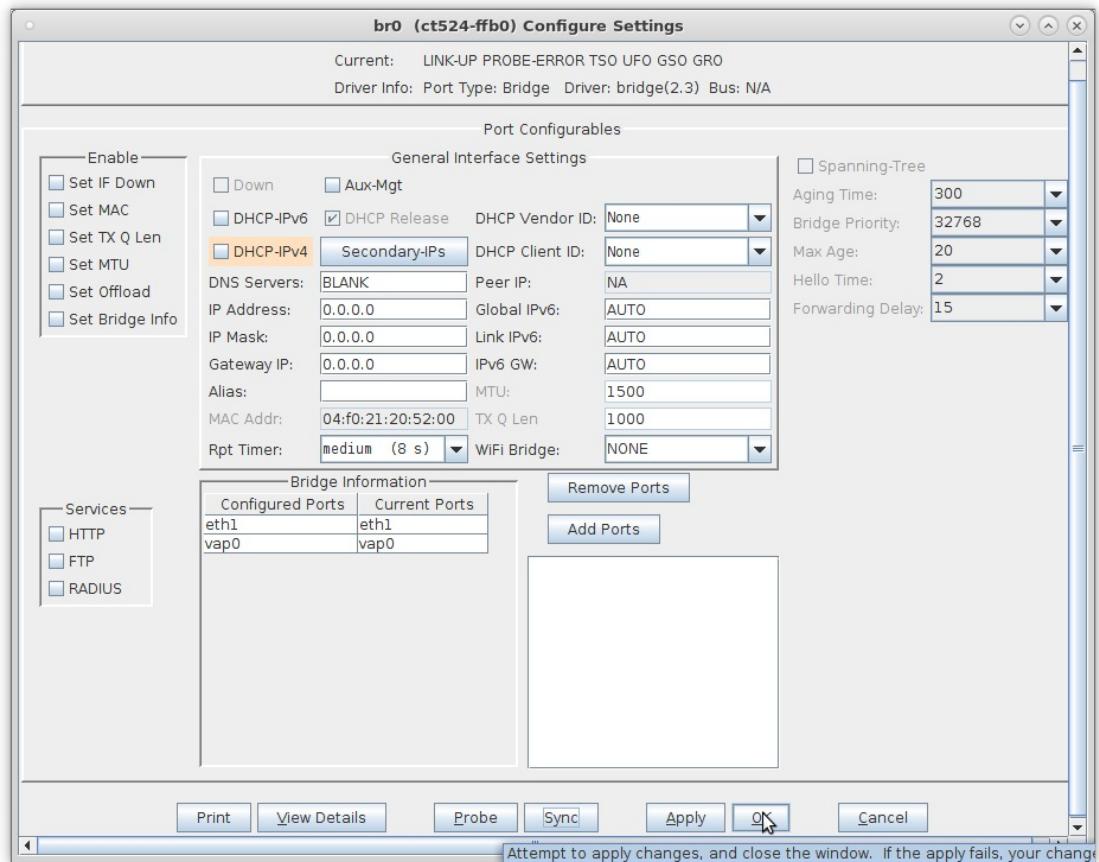


D. Enter Quantity **1**, and give it a name such as **br0**, and then click **Apply**



E. Click **SYNC** in the Netsmith window and the **br0** interface should appear.

F. Right-click on the br0 interface and select **Modify Port**



A. Add vap0 and eth1 to the bridge.

B. Click **Apply**, and then **Sync**.

G. Go back to the **Netsmith** window, and you should see the **br0** device connected to **vap0** and **eth1** with purple lines. If you do not, try clicking once on the **br0** icon to force a re-draw. You now have a VAP in bridge mode. Connect the upstream network to **eth1**, and stations associated with **vap0** will be able to communicate with that upstream network.

