

## Use FireFox with a virtual station to Browse a DUT

**Goal:** Use FireFox with a virtual station to Browse a DUT

Access points used as a DUT in a wireless-mesh scenario might not have an ethernet port available to be able to access their management screen. Rather, they require a station to associate to the DUT to access the management console. LANforge virtual stations operate in the context of a VRF (virtual routing) device that protects them from the default routing table of the system. This makes using a browser over a station unintuitive; special commands are required to do this. Requires LANforge 5.3.9 or later.

### 1. Associate a station to your DUT

- A. Create a station as necessary or use the wlan0 device
  - A. if you know the SSID credentials, enter those.
  - B. If you need to discover the SSID, enter anything into the SSID box, like `asdf` so you can start a scan.

For more information see [Create stations](#)

- B. Scan for your DUT SSID.

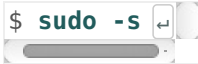
SSID	Channel	Info	Auth	BSS	Signal	Frequency	Beacon	Age
Baird	11	3x3 MIMO	WPA WPA2	10:05:01:3f:84:a0	-86.0	2462	100	1.30 h
Baird-5	48	3x3 MCS 0-9 AC	WPA WPA2	10:05:01:3f:84:a0	-93.0	5240	100	1.10 h
CBCI-31BF-2.4	6	3x3 MIMO	WPA2	74:85:2a:4f:0c:38	-85.0	2437	100	1.06 h
CBCI-31BF-5	36+	3x3 MCS 0-9 AC	WPA2	74:85:2a:4f:0c:40	-79.0	5180	100	1.06 h
CBCI-CE22-2.4	6	3x3 MIMO	WPA WPA2	20:25:64:61:af:70	-54.0	2437	100	1.06 h
CBCI-CE22-5	161+	3x3 MIMO	WPA WPA2	20:25:64:61:10:e0	-52.0	5805	100	1.09 h
Danielmend1029	6	3x3 MIMO	WPA2	04:4e:5a:1c:1b:62	-97.0	2437	100	1.22 h
ERWIFI	11	2x2 MIMO	WPA2	80:2a:a8:1a:81:f5	-81.0	2462	100	1.07 h
ERWIFI	153+	2x2 MCS 0-9 AC	WPA2	82:2a:a8:1b:81:f5	-92.0	5785	100	1.09 h
Emily	157+	4x4 MCS 0-9 AC	WPA2	44:b9:2f:b0:f5:83	-94.0	5785	200	1.07 h
Green Corn	11	2x2 MIMO	WPA2	90:58:51:04:99:2a	-78.0	2462	200	1.68 h
Humburg	11	3x3 MIMO	WPA2	dc:fe:07:fe:86:e8	-96.0	2462	100	1.50 h
Lord Voldemodem	149+	4x4 MCS 0-9 AC	WPA2	ac:db:48:82:0a:45	-95.0	5745	100	1.16 h
Lord Voldemodem	1	3x3 MIMO	WPA2	ac:db:48:42:0a:45	-75.0	2412	100	1.48 h
Mikes House	157+	4x4 MCS 0-9 AC	WPA2	44:b9:2f:ea:78:43	-93.0	5785	200	1.16 h
Mikes House	1	2x2 MIMO	WPA2	d4:b9:2f:ea:78:3b	-78.0	2412	200	1.06 h
Momo Wifi	11	3x3 MIMO	WPA2	d4:6e:0e:43:52:89	-82.0	2462	100	1.52 h
NETGEAR23	1	3x3 MIMO	WPA2	3c:37:86:3a:8e:06	-70.0	2412	100	1.10 h
NETGEAR23-5G	153+	3x3 MCS 0-9 AC	WPA2	3c:37:86:3a:8e:dc	-88.0	2412	100	1.06 h
NETGEAR27	9	3x3 MIMO	WPA2	9c:3d:cf:1e:97:d0	-94.0	2452	100	1.06 h
NETGEAR27-5G	153+	3x3 MCS 0-9 AC	WPA2	9c:3d:cf:1e:97:cf	-95.0	5785	100	1.14 h
OSEN-AP	157+	3x3 MCS 0-9 AC	OSEN1	04:70:21:dff:42:0ff	-63.0	5785	240	1.06 h
PASSPOINT-AP	36+	3x3 MIMO	WPA2	00:0e:84:3a:46:9e	-66.0	5180	240	1.09 h
Pretty Fly for a WiFi	1	2x2 MIMO	WPA2	70:3a:cb:21:ff:24	-68.0	2412	100	1.18 h
RGUTZ-5	11	2x2 MIMO	WPA2	54:a6:5c:dc:1f:99	-94.0	2462	200	1.07 h
RGUTZ-5	157+	4x4 MCS 0-9 AC	WPA2	54:a6:5c:dc:1f:a1	-90.0	5785	200	1.11 h
RoseSilva	11	3x3 MIMO	WPA2	9c:34:28:d9:6a:0c	-88.0	2462	100	1.21 h
Silv-Wifi	6	2x2 MIMO	WPA WPA2	24:45:a2:6a:72:47	-77.0	2437	100	1.06 h
Silv-Wifi	36	2x2 MIMO	WPA WPA2	24:45:a2:6a:72:48	-78.0	5180	100	1.07 h
Silv-Wifi-guest	6	2x2 MIMO	Open	24:45:a2:6a:72:49	-77.0	2437	100	1.06 h
Stallion	44+	4x4 MCS 0-9 AC	WPA2	c8:52:61:ef:63:3f	-92.0	5220	200	1.09 h
Stallion	6	2x2 MIMO	WPA2	c8:52:61:ef:63:3f	-71.0	2437	200	1.15 h
Success11	6	3x3 MIMO	WPA2	c0:7c:d1:0c:be:00	-76.0	2437	100	1.06 h
Success11-5	153+	3x3 MCS 0-9 AC	WPA WPA2	c0:7c:d1:0c:be:00	-68.0	5785	100	1.09 h
Tony	1	3x3 MIMO	WPA2	dc:fe:07:7a:fc:88	-76.0	2412	100	1.43 h
XFINITY	36+	3x3 MCS 0-9 AC	WPA2	74:85:2a:4f:0c:40	-80.0	5180	100	1.06 h
XFINITY	153+	3x3 MCS 0-9 AC	WPA2	c8:7c:d1:0c:be:00	-69.0	5785	100	1.07 h
XFINITY	161+	3x3 MIMO	WPA2	20:25:64:61:10:e5	-52.0	5805	100	1.06 h
XFINITY	48+	3x3 MCS 0-9 AC	WPA2	1a:05:01:3f:84:a8	-85.0	5240	100	1.07 h

- C. Configure your station to use the DUT SSID credentials and DHCP.

### 2. Use the vrf\_exec . bash script to start Firefox

The `vrf_exec . bash` script changes the networking context for the browser so it can use your station.

- A. Open a terminal

B. Become root: 

C. Go to the LANforge directory: 

D. Start firefox: 

3.

### Possible difficulties

If you have just rebooted your LANforge system and are jumping to step 2 without starting the LANforge GUI, you might have difficulty getting Firefox to display. By starting the GUI, it runs the `xhost +` command and relaxes some basic X11 security settings to let other users display windows on the desktop.

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