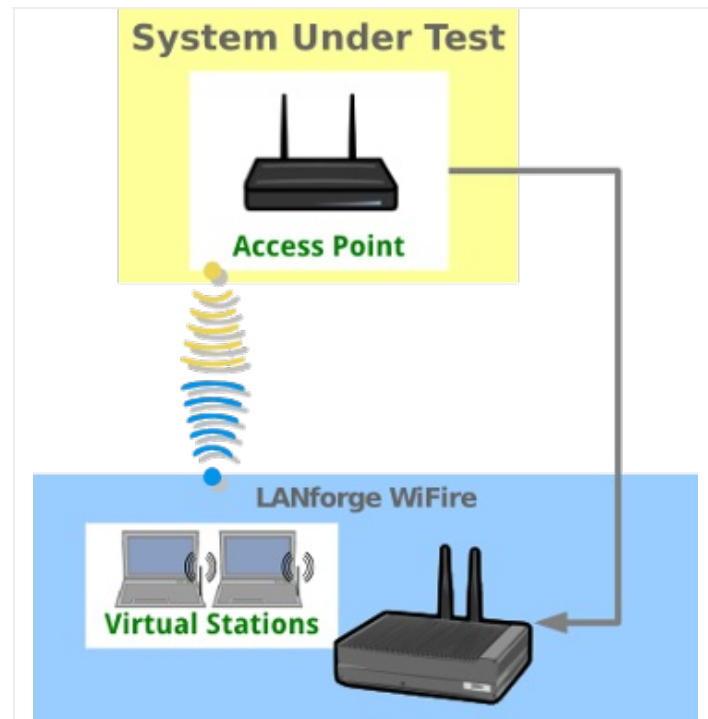
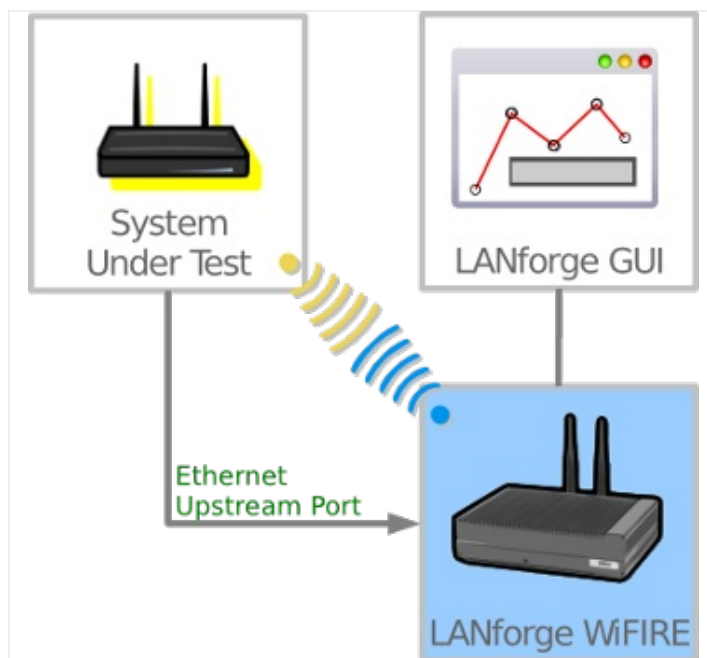


LANforge WiFi Station Association Code 17

Goal: Configure Two virtual APs with a maximum of ten stations each.

This cookbook provides a basic station setup to emulate over-populating an AP with stations. Requires a WiFIRE system such as a CT520 or better than can provide more stations than your AP(s) under test will accept. This is not a roaming setup (Wireless Roaming/HS2.0 or 802.11r) because it is not exercising enterprise authentication or roaming specifications.



1. Set up one AP with a maximum of 10 stations permitted and an SSID of `jedtest`. (Not shown.)
2. Create 11 stations for SSID `jedtest`

A. In the *Port Mgr* tab, select *wiphy0* and click the **Create** button.

LANForge Manager Version(5.3.3)

Control Reporting Tear-Off Info Plugins

Stop All Restart Manager Refresh HELP

File-IO Layer-4 Generic Test Mgr Test Group Resource Mgr Event Log Alerts Port Mgr Messages
 Status Layer-3 L3 Endps VoIP/RTP VoIP/RTP Endps Armageddon WanLinks Attenuators Collision-Domains

Disp: 192.168.100.133:0.0 Sniff Packets Clear Counters Reset Port Delete
 Rpt Timer: medium (8 s) Apply View Details Create Modify Batch Modify

All Ethernet Interfaces (Ports) for all Resources.

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			192.168.100.185	0	eth0		3,583,464	40,616	6	5,843	27,373,703	20,877	8
1.1.1			0.0.0.0	0	eth1		0	0	0	0	1,360	16	0
1.1.2			0.0.0.0	0	wiphy0		312,252,546	1,213,599	0	402	2,111,915	13,451	0
1.1.3			0.0.0.0	0	wiphy1		49,955,029	965	0	0	743,390	4,705	0
1.1.4			0.0.0.0	0	wiphy2		90,878,491	1,026	0	0	1,266,152	6,550	0
1.1.5		<input checked="" type="checkbox"/>	0.0.0.0	0	wlan0	wiphy0	0	0	0	0	0	0	0
1.1.6		<input checked="" type="checkbox"/>	0.0.0.0	0	wlan1	wiphy1	0	0	0	0	0	0	0
1.1.7		<input checked="" type="checkbox"/>	0.0.0.0	0	wlan2	wiphy2	0	0	0	0	0	0	0

Logged in to: brent-523:4002 as: Admin

B. In the *Create VLANs* window, create 21 stations:

Create VLANs on Port: 1.1.2

1 MAC-VLAN 802.1Q-VLAN Redirect Bridge GRE Tunnel
 WiFi STA WiFi VAP WiFi Monitor WiFi Virtual Radio

2 Shelf: 1 Resource: 1 (brent-523) Port: 2 (wiphy0)

3 VLAN ID: DHCP-IPv4
 Parent MAC: 00:0e:8e:4e:59:2f DHCP Client ID: None
 MAC Addr: xx:xx:xx:*:*:xx IP Address: Global IPv6: AUTO
 Quantity: 11 IP Mask or Bits: Link IPv6: AUTO
 Gateway IP: IPv6 GW: AUTO
 #1 Redir Name: #2 Redir Name:
 STA ID: 0 SSID: jedtest
 WiFi AP: Key/Phrase: jedtest1
 WPA WPA2 WEP

4 Down
 Apply Cancel

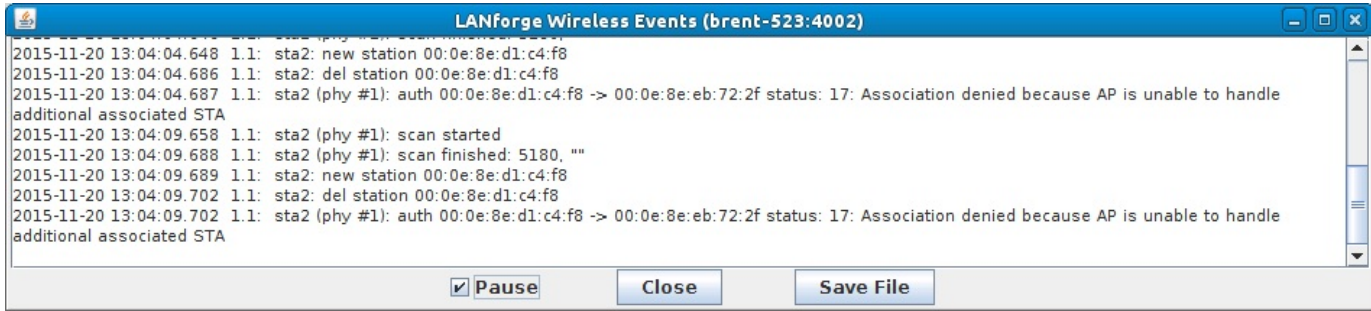
- A. Select **WiFi STA**,
- B. Select **DHCP-IPv4**
- C. and choose pattern `xx:xx:xx:*:*:xx` for *MAC Addr*.
- D. Then enter **11** for *Quantity*
- E. *STA ID* should be **0**
- F. and *SSID* will be `jedtest` for this example.
- G. We also will select **WPA2**
- H. ...and click the **Apply** button.

C. We will see 11 stations in the *Port Mgr* tab:

D. The stations should start and ten will associate.

Port	Pha...	Down	IP	SEC	Alias	Parent Dev	RX Bytes	RX Pkts	Pps RX	bps RX	TX Bytes	TX Pkts	Pps TX
1.1.05	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.0.0.0	0	wlan0	wiphy0	0	0	0	0	0	0	0
1.1.06	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.0.0.0	0	wlan1	wiphy1	0	0	0	0	0	0	0
1.1.07	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.0.0.0	0	wlan2	wiphy2	0	0	0	0	0	0	0
1.1.08	<input type="checkbox"/>	<input type="checkbox"/>	177.1.9.17	0	sta0	wiphy0	138,318	838	1	2,018	24,802	140	0
1.1.09	<input type="checkbox"/>	<input type="checkbox"/>	177.1.9.12	0	sta1	wiphy0	170,662	1,007	1	1,482	27,222	152	0
1.1.10	<input type="checkbox"/>	<input type="checkbox"/>	0.0.0.0	0	sta2	wiphy0	158,530	919	0	1,127	27,638	148	0
1.1.11	<input type="checkbox"/>	<input type="checkbox"/>	177.1.9.16	0	sta3	wiphy0	168,518	1,006	1	2,069	30,258	164	0
1.1.12	<input type="checkbox"/>	<input type="checkbox"/>	177.1.9.18	0	sta4	wiphy0	170,638	988	1	1,286	27,904	152	0
1.1.13	<input type="checkbox"/>	<input type="checkbox"/>	177.1.9.11	0	sta5	wiphy0	178,574	1,043	1	1,937	30,468	161	0
1.1.14	<input type="checkbox"/>	<input type="checkbox"/>	177.1.9.13	0	sta6	wiphy0	180,540	1,045	1	2,006	28,184	151	0
1.1.15	<input type="checkbox"/>	<input type="checkbox"/>	177.1.9.21	0	sta7	wiphy0	162,740	967	1	2,007	29,020	159	0
1.1.16	<input type="checkbox"/>	<input type="checkbox"/>	177.1.9.15	0	sta8	wiphy0	183,734	1,052	1	2,031	29,834	162	0
1.1.17	<input type="checkbox"/>	<input type="checkbox"/>	177.1.9.14	0	sta9	wiphy0	184,654	1,064	1	2,137	29,558	158	0
1.1.18	<input type="checkbox"/>	<input type="checkbox"/>	177.1.9.19	0	sta10	wiphy0	180,334	1,030	1	2,108	29,356	159	0

E. In the LANforge Wireless Events window, you will see a warning for **Association denied**.



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