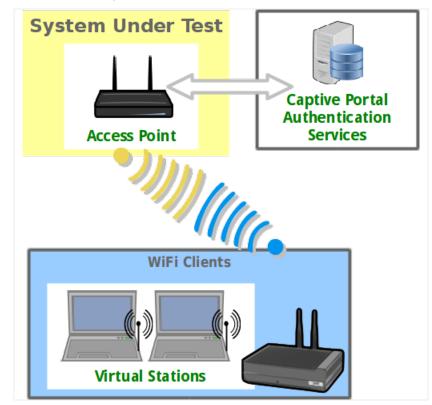


WiFi Captive Portal Login

Goal: Create many user sessions to a WiFi captive portal gateway.

Airports, arenas and coffee shops often offer open WiFi service that is gated with a web sign-on form. This is called a captive portal. LANforge can run a custom login script on a virtual station to emulate sign-in on the captive portal web page. The following example will create one hundred stations and have them authenticate through a captive WiFi portal.



- 1. Prepare a portal login script (1f_ifup_post)
- 2. The **lf_ifup_post** script will be called after DHCP assignment for a station occurs. It can also be called before DHCP release. This script is called from the LANforge resource hosting the virtual station.
 - A. The script should be in directory /home/lanforge/.
 - B. LANforge will pass these arguments to the script
 - A. -i station device
 - B. --ip4 station ip address
 - C. --ip6 station ipv6 address
 - D. --dns station DNS address
 - E. --mgt pipe name for reporting results to LANforge
 - C. Custom parameters to the script can be provided.
 - D. The script can have another name.

- E. LANforge expects these return values:
 - A. **OK**
 - B. FAIL
 - C. FAIL:reason, this provides feedback on failure occurrance.

3. Create WiFi stations

A. In the **Ports** tab, select *wiphy1* and click **Create**

| <u>≗</u> <u>C</u> ontrol | <u>R</u> epo | rting | Īe | ear-Off | | AN f gins | orge | Man | aqe | er \ | Versior | า(5.3.: | 1) | | | <u> </u> |
|-----------------------------|--------------|-------|-------|---------|-----------|--------------|------------|---------------|---------|--------------|---------------|---------------------|---------|-------------------------|-------------|------------|
| | | | | | | | | | | Sto | p All | Restart | Manager | | Refresh | HELP |
| File-IO | Laye | | Te | est Gro | 1 | ource | Mgr Eve | ent Log | | | rt Mgr Me | essages WanLinks | | | Attenuators | |
| | status | i . | | | Layer- | 3 | | L3 | Endp | 5 | | wantink | 5 | | Attenuators | |
| | Dis | p: 10 | 0.1. | 0.13:0. | 0 | | Sniff Pack | cets | | Clear | Counters | Reset F | ort | Delete | | |
| | Rpt | Time | er: [| medium | (8 s) | • | Apply | | | <u>∨</u> iew | Details | Cr <u>e</u> at | e | <u>M</u> odify <u>E</u> | atch Modify | |
| | | | | | | | All Et | hernet | Interfa | aces (Poi | ts) for all R | esources | <u></u> | | | |
| Port | Pha | . Dov | wn | | IP | SEC | Alias | Parent Dev | RX | Bytes | RX Pkts | Pps RX | bps RX | TX Bytes | TX Pkts | Pps TX |
| 1.1.26 | | | 1 0 | 0.0.0.0 | | 0 | wlan1 | wiphy1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 🔺 |
| 1.1.25 | | | ic | 0.0.0.0 | | 0 | wlan0 | wiphy0 | | 236.187 | 64,789 | 0 | 0 | 12,465,673 | 48,994 | ▲ 0 ■ 0 |
| 1.1.24 | | | ic | 0.0.0.0 | | 0 | wiphy2 | | | 0 | 0 | 0 | 0 | 4,164,657, | 2,807,3 | 0 |
| 1.2.24 | | | | 0.0.0.0 | | 0 | wiphy2 | | | 0 | 0 | 0 | 0 | 2,152,214, | 2,092,293 | 0 |
| 1.1.03 | | | | 0.0.0.0 | | 0 | wiphy1 | | 1,78 | 5,846, | 5,977,150 | 0 | 0 | 5,908,484, | 1,193,8 | 0 |
| 1.2.23 | | |] [| 0.0.0.0 | | 0 | wiphy1 | | | 0 | 0 | 0 | 0 | 635,235,396 | | 0 🕶 |
| 4 | | | | | | | | | | | | | | | | • |
| Logged | in to: | jedt | est: | 4002 a | as: Admin | n | | | | | | | | | | |

B. In the Create VLANS window, craft ten wifi stations:

| 4 | | Creat | e VLANs c | on Port: 1.1.03 | | △ _ □ X |
|---|----------------|---------------------------|-------------------|-----------------|--------------|----------------|
| A | O MAC-VLAN | ○ 802.1Q-VLAN ○ Red | irect 🔷 🔾 Bridge | GRE Tunnel | | |
| | 🖲 WiFi STA | 🔾 WiFi VAP 🔷 🔾 WiFi Monit | or 💫 🔾 WiFi Virtu | al Radio | | |
| 2 | Shelf: | 1 | Resource: | 1 (jedtest) 💌 | Port: 3 (w | viphy1) |
| B | VLAN ID: | | DHCP-IPv4 | | | |
| | Parent MAC: | 00:0e:8e:4e:57:91 | DHCP Client ID: | ~ | | |
| | MAC Addr: | xxxxxxxxx *:*:xxx 💌 | IP Address: | | Global IPv6: | AUTO |
| | Quantity: | 100 | 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: | | |] |
| | Use WPA | Use WPA2 | Use WEP | | | |
| | | | | | | |
| 4 | ✓ Down | | | | | |
| | <u>A</u> pply | <u>C</u> ancel | | | | |

- A. Select WiFi STA
- B. For MAC address, choose xx:xx:x:*:*:xx
- C. Select DHCP-IPv4
- D. Enter Quantity 100
- E. Specify **0** for *STA ID*
- F. The example *SSID* for this cookbook is jedtest
- G. Select the Down option. This postpones the stations making a DHCP request until they are explicitly admin up.
- H. ...and then click Apply

C. You will see ten station created:

| 솔 Control | Repor | tina ' | <u>[</u> ear-Off <u>I</u> nf | | | forge | Mar | nage | er | Versio | n(5.3. | .1) | | | ≙ _ | |
|------------------|--------|------------|------------------------------|---------|------|------------------|------------------|---------|------------------|-----------------|------------|-----------|----------------|--------------|--------|-----|
| _ | | J . | | | | | | | S | top All | Rest | art Manag | er | Refresh | n HE | ELP |
| Attenua | | File-I | 0 | Tast | | | | | | . Kalanta k | Dant Mara | / | | | | |
| Attenua | | atus | 0 Layer-4 | Test | Grou | Layer-3 | ource Mo | | ent Log | Alerts L3 En | Port Mgr | Messag | Jes | WanLinks | | _ |
| | | | | | | | | | | | | | | Warizinko | | - |
| | Dis | p: 10 | 1.0.13:0.0 | | | Sniff Pa | ckets | | Clear | Counters | Reset | Port | Delete | | | |
| | Rp | t Timei | r: medium | (8 s) • | - | Арр | ly | | Viev | v Details | Cre | ate | Modify | Batch Modify | / | |
| | | | | | | All e | thernet | Interfa | aces (Po | orts) for all F | Resources. | | | | | |
| Port | Pha | Down | IP | s | EC | Alias | Parent Dev | RX E | Bytes | RX Pkts | Pps RX | bps RX | TX Bytes | TX Pkts | Pps TX | |
| 1.2.05 | | | 10.20.0.39 | | _ | em1#3 | emi | 402,0 | | JZ1,749 | 0 | | 402,203,20 | | U | |
| 1.1.02 | | ~ | 0.0.0.0 | 0 | | sta0 | wiphy1 | | 0 | 0 | 0 | | | | 0 | -1 |
| 1.1.04 | | ~ | 0.0.0.0 | 0 | | stal | wiphy1 | | 95,826 | 1,085 | 0 | - | | | 0 | 4 |
| 1.1.13 | | ~ | 0.0.0.0 | 0 | | stal0 | wiphy1 | | 52,622 | 305 | 0 | | 6,394 | | 0 | - |
| 1.1.14 | | ~ | 0.0.0.0 | 0 | | stall | wiphy1 | | 52,106 | 301 | 0 | | 6,332 | | 0 | -1 |
| 1.1.15 | | ~ | 0.0.0.0 | 0 | | stal2 | wiphy1 | | 51,836 | 302 | 0 | | | | 0 | -1 |
| 1.1.16 | | | 0.0.0.0 | 0 | | stal3 | wiphy1 | | 51,814 | 301 302 | 0 | | 6,756 | | 0 | -1 |
| 1.1.17 1.1.18 | | V V | 0.0.0.0 | 0 | | stal 4 stal 5 | wiphyl wiphyl | | 52,148 51,722 | 299 | 0 | - | 6,942 7,180 | | 0 | - |
| 1.1.10 | | V | 0.0.0.0 | 0 | | stal5 | wiphyl | | 51,380 | 299 | 0 | | 6,880 | | 0 | -1 |
| 1.1.20 | | V | 0.0.0.0 | 0 | | stal7 | wiphy1 | | 51,470 | 298 | 0 | - | 6,818 | | 0 | -h |
| 1.1.21 | | V | 0.0.0.0 | 0 | | stal 7 | wiphy1 | | 52.058 | 301 | 0 | - | 6,208 | | 0 | - |
| 1.1.22 | | V | 0.0.0.0 | 0 | | stal9 | wiphy1 | | 52,238 | 303 | 0 | | 6,880 | | 0 | - |
| 1.1.05 | | V | 0.0.0.0 | 0 | | sta2 | wiphy1 | | 52,142 | 301 | 0 | - | 6,332 | | 0 | ۰. |
| 1.1.06 | | ~ | 0.0.0.0 | 0 | | sta3 | wiphv1 | | 51,540 | 300 | 0 | | 6,694 | | 0 | |
| 1.1.07 | | ~ | 0.0.0.0 | 0 | | sta4 | wiphy1 | | 51,722 | 299 | 0 | | 5,784 | | 0 | |
| 1.1.08 | | V | 0.0.0.0 | 0 | | sta5 | wiphy1 | | 51,380 | 298 | 0 | | 6,508 | | 0 | |
| 1.1.09 | | ~ | 0.0.0.0 | 0 | | sta6 | wiphy1 | | 51,722 | 299 | 0 | 0 | 7,118 | | 0 | |
| 1.1.10 | | ~ | 0.0.0.0 | 0 | | sta7 | wiphy1 | | 51,540 | 300 | 0 | 0 | 6,270 | 33 | 0 | |
| 1.1.11 | | V | 0.0.0.0 | 0 | | sta8 | wiphy1 | | 52,260 | 304 | 0 | 0 | 6,332 | 2 34 | 0 | |
| 1.1.12 | | V | 0.0.0.0 | 0 | | sta9 | wiphy1 | | 51,752 | 300 | 0 | 0 | 6,332 | 2 34 | 0 | |
| 4 | | | | | | | | | | | | | | | | |
| Loggod | in to. | ie elt e e | t:4002 as: | Admin | _ | | | _ | | | | | | | | - |

4. Batch Modify Stations in order to update 1f_ifup_post parameters

A. Highlight stations and click **Batch Modify**

| 4 | | | [| .AN | forae | Mar | nager | 1 | Versio | n(5.3. | 1) | | | ≙ _ | ПX |
|------------------|---------------|--------|---|--------|--|------------------|---------------|--------------|----------------|------------|----------|------------------|--------------|--------|-----|
| <u>C</u> ontrol | <u>R</u> epor | ting | <u>T</u> ear-Off <u>I</u> nfo <u>P</u> lu | | | | | | | | | | | | |
| | | | | | | | | St | top All | Resta | rt Manag | er | Refresh | Н | ELP |
| | | | | | | | | | | | | | | | |
| Attenua | ators | File-I | 0 Layer-4 Te | st Gro | up Reso | urce Mg | gr Event | Log | Alerts | Port Mgr | Messag | es | | | |
| | St | atus | r. | | Layer-3 | | | | L3 En | idps | | | WanLinks | | |
| | Dis | n 10 | .1.0.13:0.0 | | Sniff Pag | kote | C | oor | Counters | Reset | Port | Delete | | | |
| | Dia | ·p. 10 | .1.0.13.0.0 | | Shin rad | .Kets | | cai | counters | - Neser | | Delete | | | |
| | Rp | t Time | r: medium (8 s) | - | Appl | у | 2 | <u>/</u> iew | v Details | Crea | te | Modify | Batch Modify | | |
| | | | | | —————————————————————————————————————— | thernet | Interfaces | (Po | rts) for all F | Resources. | | | ×. | | |
| | | | | | | L . | | | | | | | | | |
| Port | Pha | Dowr | n IP | SEC | Alias | Parent Dev | RX Bytes | 3 | RX Pkts | Pps RX | bps RX | TX Bytes | TX Pkts | Pps TX | |
| | | | | | | | | | | | | | | | |
| 1.2.05 | | | 10.26.0.39 | 0 | eth1#9 | ethl | 482,838,3 | | 321,749 | 0 | | 402,205,20 | | 0 | |
| 1.1.02 | | | 0.0.0.0 | 0 | sta0 | wiphyl | 105.0 | 0 | 0 | 0 | 0 | 0 | | 0 | |
| 1.1.04 1.1.13 | | ~ | 0.0.0.0 | 0 | stal stal0 | wiphyl wiphyl | 195,8 52,6 | | 1,085 305 | 0 | 0 | 187,120 6,394 | | 0 | |
| 1.1.13 1.1.14 | | V | 0.0.0.0 | 0 | stall | wiphy1 | 52,0 | | 305 | 0 | 0 | 6,394 | | 0 | |
| 1.1.14 | | ~ | 0.0.0.0 | 0 | stall | wiphyl | 51,8 | | 301 | 0 | 0 | 6,208 | | 0 | |
| 1.1.16 | | | 0.0.0.0 | 0 | stal3 | wiphyl | 51,8 | | 301 | 0 | 0 | 6,756 | | 0 | |
| 1.1.17 | | | 0.0.0.0 | 0 | stal4 | wiphyl | 52,1 | | 302 | 0 | 0 | 6,942 | | 0 | |
| 1.1.18 | | ~ | 0.0.0.0 | 0 | sta15 | wiphy1 | 51,7 | | 299 | 0 | 0 | 7,180 | | 0 | |
| 1.1.19 | | ~ | 0.0.0.0 | 0 | stal6 | wiphy1 | 51,3 | 80 | 298 | 0 | 0 | 6,880 | 38 | 0 | |
| 1.1.20 | | ~ | 0.0.0.0 | 0 | stal7 | wiphy1 | 51,4 | 70 | 299 | 0 | 0 | 6,818 | | 0 | |
| 1.1.21 | | V | 0.0.0.0 | 0 | sta18 | wiphy1 | 52,0 | | 301 | 0 | 0 | 6,208 | | 0 | |
| 1.1.22 | | ~ | 0.0.0.0 | 0 | stal9 | wiphy1 | 52,2 | | 303 | 0 | 0 | 6,880 | | 0 | |
| 1.1.05 | | ~ | 0.0.0.0 | 0 | sta2 | wiphy1 | 52,1 | | 301 | 0 | 0 | 6,332 | | 0 | |
| 1.1.06 | | ~ | 0.0.0.0 | 0 | sta3 | wiphy1 | 51,5 | | 300 | 0 | 0 | 6,694 | | 0 | |
| 1.1.07 | | | 0.0.0.0 | 0 | sta4 | wiphy1 | 51,7 | | 299 | 0 | 0 | 5,784 | | 0 | |
| 1.1.08 | | ~ | 0.0.0.0 | 0 | sta5 | wiphy1 | 51,3 | | 298 | 0 | 0 | 6,508 | | 0 | |
| 1.1.09 1.1.10 | | ~ | 0.0.0.0 | 0 | sta6 sta7 | wiphyl wiphyl | 51,7 51,5 | | 299 300 | 0 | 0 | 7,118 | | 0 | |
| 1.1.10 | | ~ | 0.0.0.0 | 0 | sta7 | wiphyl | 52,2 | | 300 | 0 | 0 | 6,332 | | 0 | |
| 11112 | | | 0.0.0.0 | 0 | stag | wiphy1 | 51.7 | | 304 | 0 | 0 | 6 332 | | 0 | |
| 1 | | 11 | | | | | | | | | | | | | |
| Loggod | in to. | indtor | t-4002 as: Admir | | | | | | | | | | | | |

Logged in to: jedtest:4002 as: Admin

B. In the *Batch Modify* screen, click the + button and expand to Group 2.

| | | DHCP-IPv6 MTU TX Q Len WiFi Bridge HTTP WiFi AP Mode Rate | NA NA NA NA NA NA | | |
|----------------|--------------|--|----------------------------------|---------------------------------|---|
| | - | MTU TX Q Len WiFi Bridge HTTP WiFi AP Mode | NA NA NA NA NA | | - |
| | - | TX Q Len WiFi Bridge HTTP WiFi AP Mode | NA NA NA NA | | |
| | - | WiFi Bridge HTTP WiFi AP Mode | NA NA NA | | |
| | | HTTP WiFi AP Mode | NA NA NA | | |
| | | WiFi AP Mode | NA | | |
| | | Mode | NA | | |
| | | Mode | NA | | |
| | | Mode | NA | | |
| | | | | | |
| | | Rate | NA | - | |
| | | | | | |
| | | Tx-Power | | | |
| | - | AMPDU-Density | NA | • | |
| | - | br ip | | | |
| | - | Use WPA2 | NA | - | |
| | - | | | | |
| | - | Disable SGI | NA | • | |
| | - | Allow Migration | NA | • | |
| | - | | | | |
| up_postuser bo | obp | ass secreturl http://ww | w.google.com/ | 0 | |
| | p_postuser b | | Disable SGI | Disable SGI Allow Migration | ▼ Disable SGI NA ▼ ▲ Allow Migration NA ▼ |

C. Edit the IF POST field. Enter the file name and any extra arguments that the script will want for this port. Example: 1f_ifup_post --user bob --pass secret --ur1 http://slashdot.org/

| | Dence | tim m | Ta an Off 1-f | | | e Mar | nager | Versio | n(5.3. | 1) | | | ≙ _ | |
|---------|---------------|--------|---------------|------------------|----------|---------------|---------------|-----------------|------------|-----------|------------|--------------|----------|----------|
| ontroi | <u>R</u> epor | ting | Tear-Off Info | o <u>P</u> iugin | s | | | | | | | | | |
| | | | | | | | 9 | itop All | Resta | art Manag | er | Refrest | n H | HELP |
| Attenua | atore | File- | 0 Laver-4 | Test 0 | FOUR PO | source Mo | ar Event Loo | Alerts | Port Mar | Messag | 100 | | | |
| Attenua | | atus | Layer-4 | Test d | Layer-3 | | | L3 En | | Messay | | WanLinks | | |
| | | | | | | | | | | | | Wanteniko | | |
| | Dis | ip: 10 | .1.0.13:0.0 | | Sniff P | ackets | Clea | r Counters | Reset | Port | Delete | | | |
| | Rpt | t Time | r: medium (| (8 s) 🔻 | Ap | ply | Vie | w Details | Crea | ate | Modify | Batch Modify | / | |
| | | | | | AI | l Ethernet | Interfaces (P | orts) for all F | Resources. | | | - | | |
| | | | | | | | | | | | | | | |
| Port | Pha | Dowr | n IP | S | EC Alias | Parent Dev | RX Bytes | RX Pkts | Pps RX | bps RX | TX Bytes | TX Pkts | Pps TX | |
| 1.2.05 | | | 10.26.0.39 | 0 | eth1#9 | eth1 | 482,838,35 | 321,749 | 0 | 0 | 402,205,20 | 318,926 | 0 | |
| 1.02 | | ~ | 0.0.0.0 | 0 | sta0 | wiphy1 | 0 | | 0 | | 0 | | 0 | |
| .1.04 | | V | 0.0.0.0 | 0 | stal | wiphy1 | 195,826 | 1,085 | 0 | 0 | 187,120 | 976 | 0 | Л |
| 1.1.13 | | ~ | 0.0.0.0 | 0 | stal0 | wiphy1 | 52,622 | 305 | 0 | 0 | 6,394 | | 0 | |
| 1.14 | | 1 | 0.0.0.0 | 0 | stall | wiphy1 | 52,106 | 301 | 0 | 0 | 6,332 | 34 | 0 |) T |
| 1.1.15 | | ~ | 0.0.0.0 | 0 | stal2 | wiphyl | 51,836 | 302 | 0 | 0 | 6,208 | 32 | 0 | Л |
| 1.1.16 | | ~ | 0.0.0.0 | 0 | stal3 | wiphy1 | 51,814 | 301 | 0 | 0 | 6,756 | 36 | 0 | |
| 1.1.17 | | ~ | 0.0.0.0 | 0 | stal4 | wiphy1 | 52,148 | 302 | 0 | 0 | 6,942 | 39 | 0 | |
| 1.18 | | V | 0.0.0.0 | 0 | sta15 | wiphy1 | 51,722 | 299 | 0 | 0 | 7,180 | 38 | 0 | דו |
| .1.19 | | ~ | 0.0.0.0 | 0 | stal6 | wiphy1 | 51,380 | 298 | 0 | 0 | 6,880 | 38 | 0 | רו |
| .1.20 | | ~ | 0.0.0.0 | 0 | stal7 | wiphy1 | 51,470 | 299 | 0 | 0 | 6,818 | 37 | 0 | |
| .1.21 | | V | 0.0.0.0 | 0 | sta18 | wiphy1 | 52,058 | 301 | 0 | 0 | 6,208 | | 0 | |
| .1.22 | | ~ | 0.0.0.0 | 0 | sta19 | wiphy1 | 52,238 | 303 | 0 | 0 | 6,880 | 38 | 0 | רו |
| .1.05 | | V | 0.0.0.0 | 0 | sta2 | wiphy1 | 52,142 | 301 | 0 | 0 | 6,332 | 34 | 0 |) |
| .1.06 | | ~ | 0.0.0.0 | 0 | sta3 | wiphy1 | 51,540 | 300 | 0 | 0 | 6,694 | 35 | 0 | |
| .1.07 | | ~ | 0.0.0.0 | 0 | sta4 | wiphy1 | 51,722 | | 0 | 0 | 5,784 | | 0 | |
| .1.08 | | V | 0.0.0.0 | 0 | sta5 | wiphy1 | 51,380 | 298 | 0 | 0 | 6,508 | | 0 | |
| .1.09 | | 1 | 0.0.0.0 | 0 | sta6 | wiphy1 | 51,722 | 299 | 0 | 0 | 7,118 | 37 | 0 | лT |
| .1.10 | | ~ | 0.0.0.0 | 0 | sta7 | wiphy1 | 51,540 | 300 | 0 | 0 | 6,270 | 33 | 0 | |
| .1.11 | | ~ | 0.0.0.0 | 0 | sta8 | wiphy1 | 52,260 | 304 | 0 | 0 | 6,332 | 34 | 0 | <u>٦</u> |
| 112 | | 1 | 0000 | 0 | sta9 | winhv1 | 51 752 | 300 | 0 | 0 | 6 332 | 34 | <u>,</u> | шĽ. |
| • | | | | | | | | | | | | | | • |

D. Click the **Apply** button to apply the changes. Do not close the window yet.

E. To check the value of each port's **IF/UP Post** you can use the *Ports* tab. In the port *Configure Settings* window, in the **More Advanced Tab** you can find the IF/UP script value.

| 🙆 sta0 (iec | ltest) Co | n | fiqure Se | ttings | | ≙ _ | o x |
|-----------------------------|------------------|-------------|---------------------|---|----------------------------------|-----------------|----------------|
| | Port Stat | us | Information | | | | 1 |
| Curre | nt: DOWN LI | NK-[| DOWN GRO NONE | E | | | |
| Driver | Info: Port Type | ∋: \ | VIFI-STA Parent: | wiphyl | | | |
| | Port C | onf | igurables | | | | |
| Standard Configuration Adva | anced Configura | atio | n More Advand | ed Configuration | | | |
| | More \ | NiFi | i Settings | | 1 | | |
| | | | | | | | |
| Freq-2.4: | 0xfffffff | | Freq-5: | 0xfffffff | j | | |
| AMPDU-Factor: | OS Default | • | AMPDU-Density: | OS Default 🗸 🗸 | | | |
| Max-AMSDU: | OS Default | • | Bridge-IP: | 0.0.0.0 |] | | |
| X-Coordinate: | 0 | | Y-Coordinate: | 0 |] | | |
| Z-Coordinate: | 0 | | | | | | |
| Post IF-UP Script: | lf_ifup_postuser | bob | pass secreturl http | o://slashdot.org/ | | | |
| 🗌 Custom WPA Cfg | WPA Cfg: | | | Specify script to run | | | |
| Scan Hidden | Allow Migration | | IBSS Mode | This is often used to In addition to any ar | | | |
| Restart DHCP on | <u> </u> | | | -i [dev-name]ip4 [i dns [comma-deline The script may also | ipv4-addr-for eated-list-of-[| -devic DNS-s | e]ip ervers |
| | | | | to request logout of | | | addici |
| | | | | | | | |
| Print View Details Prob | e Display | Sca | an Sync | Apply Ok | < | Cance | el |

- 5. Testing a station. We will toggle it up and down and look at the logs to find problems.
 - A. Highlight one of your stations in the Ports tab.
 - B. Set the *Report Time* to 1s and click Apply
 - C. In the *Batch Modify* window, click the **Up** button. This is the same as settting **Up/Down** to **UP** and clicking **Apply**
 - D. Watch the *Wireless Messages* and *LANforge Messages* windows for error messages. The *Ports* tab will update the station status.
- 6. Use the Batch Modify window to Force DHCP Renewal
 - A. Click $\ensuremath{\text{Down}}$

| 🙆 LAN | forge Port | Batch Modi | fier <mark>≜₋¤×</mark> |
|-------------|------------|-------------------|---------------------------|
| + - All | | ▼ Apply | <u>O</u> K <u>C</u> ancel |
| Clear DHCP | Up Down | Down Logout | Portal Re-login |
| 0 | X. | | |
| Up/Down | NA 💌 | DHCP Release | NA |
| DHCP-IPv4 | NA | DHCP Client ID | NA |
| DNS Servers | NA | IPv6_GW | • |

B. click Clear DHCP

| 🙆 LAN | forge Port | Batch Modi | fier ≜_□× |
|-------------|------------|---------------------------|---------------------------|
| + - All | | Apply | <u>O</u> K <u>C</u> ancel |
| Clear DHCP | Up Down | Down Logout | Portal Re-login |
| 1 | | | |
| Up/Down | NA | DHCP Release | NA |
| DHCP-IPv4 | NA | DHCP Client ID | NA |
| DNS Servers | NA | IPv6_GW | • |

C. click **Up**

| 🙆 LAN | forge Port | Batch Modi | fier 🔺 | _ 🗆 X |
|-------------|------------|-------------------|---------------------------|----------|
| + - All | | ▼ Apply | <u> 0</u> K <u>C</u> a | incel |
| Clear DHCP | Up Down | Down Logout | Portal Re-login | ^ |
| 1 | 26 | | | |
| Up/Down | NA | DHCP Release | NA | · |
| DHCP-IPv4 | NA 👻 | DHCP Client ID | NA | · |
| DNS Servers | NA | IPV6.GW | | - |

7. Use the *Batch Modify* window to **Re-Login to Portal**

- A. Click Portal Re-Login
- B. If you wanted to change other parameters:
- C. Click Down Logout
- D. Set Up/Down to **Down**
- E. Change another station parameters and then click Apply
- F. Click **Up**
- 8. Use the Batch Modify window to Change station MAC addresses

| 🙆 LAN1 | forge Port | Batch Modi | fier 💁 🗖 |
|---------------|---------------------|-----------------------------|---------------------------|
| + - All | | B Apply | <u>O</u> K <u>C</u> ancel |
| Clear DHCP | Up 1 Down | Down Logout | Portal Re-login |
| 0 | | | |
| Up/Down | NA 💌 | DHCP Release | NA |
| DHCP-IPv4 | NA 💌 | DHCP Client ID | NA |
| DNS Servers | NA | IPv6 GW | |
| Reset Port IP | NA 👻 | Global IPv6 | |
| IP Mask | NA | Link IPv6 | |
| Gateway IP | NA | DHCP-IPv6 | NA |
| Alias | | MTU | NA |
| мас 2 | xxxxxxxxxxxxx *:* 👻 | TX Q Len | NA |
| Rpt Timer | NA 👻 | WiFi Bridge | NA 🖵 |
| FTP | NA 👻 | HTTP | NA |
| | | | |
| 1 | | | |

- A. Click Down
- B. Set MAC Addr to xx:xx:*:*:* randomize the mac address

- C. Click Apply
- D. Click **Up**

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