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TECHNOLOGIES
Network Testing and Emulation Solutions

sales@candelatech.com
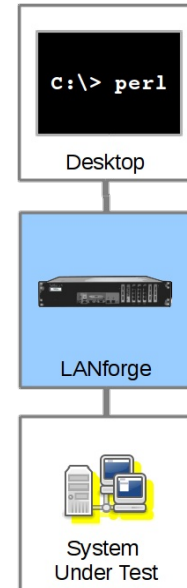support@candelatech.com
+1 (360) 380-1618 [PST, GMT -8]

Changing Station POST_IFUP field with the CLI API

Goal: Programmatically change a station's POST_IFUP field.

Creating a series of scripts using the lf_associate_ap.pl script is not adequate for negotiating a captive-portal environment, that script does not set the POST_IFUP parameter for the station. However, stations can be modified to gain that field.

Creating a station that negotiates a Captive Portal environment requires the POST_IFUP field to name a script. (Usually a portal-bot.pl script.) We can assign that port parameter with the **set_wifi_extra2** command. At the time of this writing, there are no perl scripts using this CLI command, but I will show an example here:

```
set_wifi_extra2,
   1,       # resource number
   sta100,  # port name
   0,       # flush-to-kernel
   NA,      # ignore probe
   NA,      # ignore auth
   NA,      # ignore assoc
   NA,      # ignore_reassoc
   NA,      # corrupt_gtk_rekey_mic
   NA,      # radius_ip
   NA,      # radius_port
   NA,      # freq_24
   NA,      # freq_5

   # post_ifup_script
   './portal-bot.pl --bot bp.pm --user "username" --pass "secret" --start_url "http:/
   NA       # ocsp
```

The above command would never actually be formatted in in the way it appears above. It would all appear on one line without commentds.

In a perl script, the command could be formatted like:

```
my $cmd = fmt_cmd("set_wifi_extra2", 1,
        "sta100",  # port name
        0,         # flush-to-kernel
        "NA",      # ignore probe
```

```
        "NA",        # ignore auth
        "NA",        # ignore assoc
        "NA",        # ignore_reassoc
        "NA",        # corrupt_gtk_rekey_mic
        "NA",        # radius_ip
        "NA",        # radius_port
        "NA",        # freq_24
        "NA",        # freq_5
 qq(./portal-bot.pl --bot bp.pm ) # post_ifup_script
 .qq(--user "username" --pass "secret" )
 .qq(--start_url "http://www.google.com/" )
 .qq(--ap_url "http://localhost/" )
 .qq(--login_form "login.php" )
 .qq(--login_action "login.php" )
 .qq(--logout_form "logout.php"),
        "NA"         # ocsp );
```

Important Notes

1. the LANforge server treats single-quotes (apostrophes, `'`) as command delimiters. Use only double-quotes (`"`) to quote the arguments to the script.

2. Do not use newlines (`\n` or carriage-returns (`\r\n`). That will truncate the command and LANforge will process it immediately.

3. These parameters will be provided by the server:

- `--mgt` The management FIFO

- `--ip4` The IP address of the port

- `--ip6` The IPv6 address of the port

- `--dnsv` A comma-separated list of DNS addresses

- `--logout` Signals logout