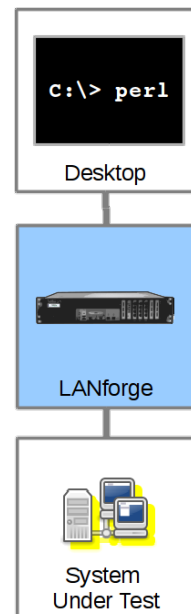


Changing Station POST_IFUP field with the CLI API

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 the way it appears above. It would all appear on one line without comments.

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