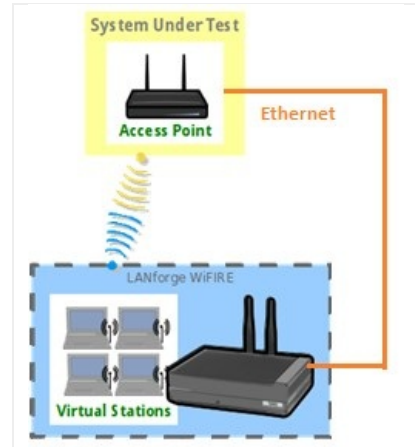


Automate WiFi Capacity and other GUI tests.

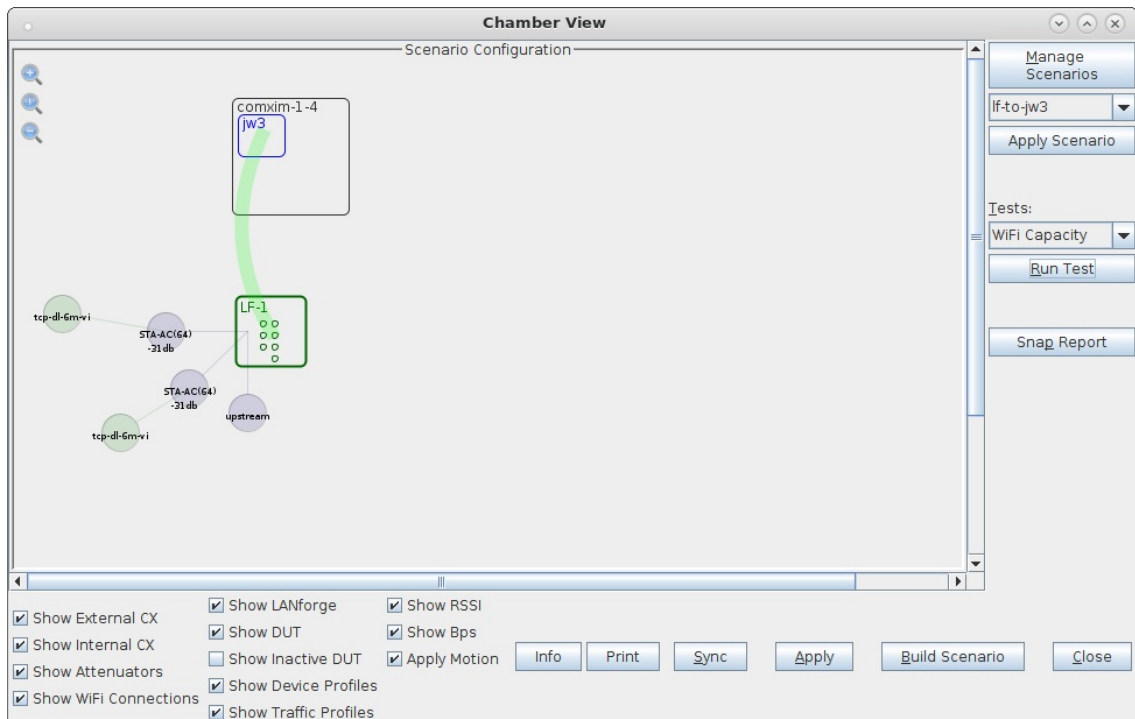
Goal: Use a command-line script to have the LANforge-GUI run the WiFi Capacity test and generate a pdf automatically.

In this test scenario, a script is used to bring up the WiFi Capacity test with a pre-configured configuration. The capacity test is then started and a report is generated. All of this is automated, and other tests such as Dataplane are also supported. This feature requires LANforge version 5.4.1 or higher.



1. Configure WiFi Capacity Test for automated run.

- A. For this to work, the LANforge GUI must be started with the **-cli-socket 3990** argument. This causes it to open a socket to listen for text commands.
- B. Open Chamber View by clicking on the 'Chamber View' button in the LANforge-GUI. Create an appropriate scenario and DUT if you have not already done so. Other cookbook examples have more details of how to do this, please see those if you are unfamiliar with Chamber View.



C. Select WiFi Capacity test, and click **Run Test** to configure it as desired.

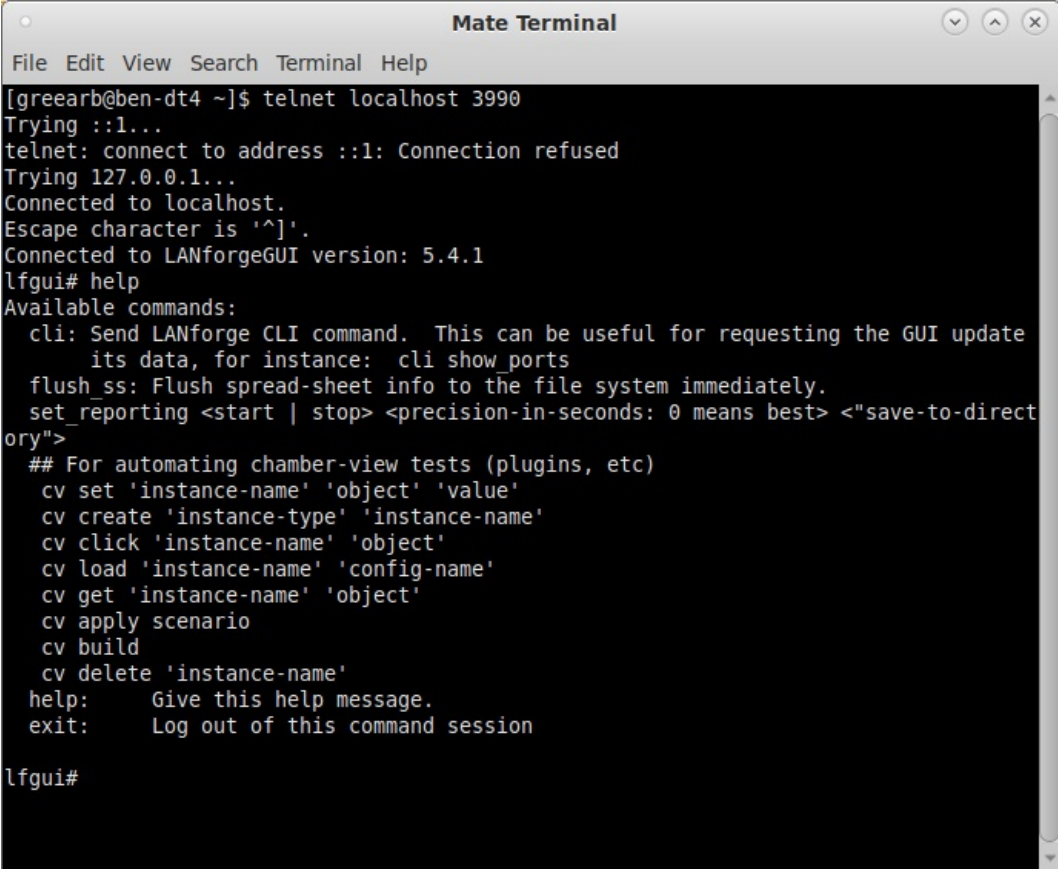
The screenshot shows the 'WiFi Capacity Test' configuration window. The 'Settings' tab is active. The configuration includes: Station Increment: 1,10,120; Loop Iterations: Single (1); Duration: 20 sec (20 s); Protocol: UDP-IPv4; Payload Size: AUTO; Total Download Rate: 1G (1 Gbps); Total Upload Rate: Zero (0 bps); Percentage TCP Rate: 10% (10%); Station-Down Quiesce period: 0 (0 sec). The 'Save' field is empty, and the 'Load' dropdown is set to 'DEFAULT'. The 'Delete' dropdown is also set to 'DEFAULT'. The 'Start' button is visible at the bottom right.

D. Enter a name in the 'Save' field, click save, and make sure it shows up as a loadable configuration. In this case, we are saving the configuration as 'udp-dl-120'

The screenshot shows the 'WiFi Capacity Test' configuration window. The 'Save' field now contains 'udp-dl-120'. The 'Load' dropdown is open, showing a list of configurations: DEFAULT, DEFAULT, layer-4, testme, udp-dl-128, and udp-dl-120. The 'Delete' dropdown is still set to 'DEFAULT'. The 'Pause' and 'Cancel' buttons are visible at the bottom right.

2. Use the `lf_gui_cmd.pl` script to launch the WiFi Capacity Test.

- C. For details on what GUI-CLI commands are supported, please see the screen-shot below and look at the contents of the `lf_gui_cmd.pl` script.



```

Mate Terminal
File Edit View Search Terminal Help
[greearb@ben-dt4 ~]$ telnet localhost 3990
Trying ::1...
telnet: connect to address ::1: Connection refused
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
Connected to LANforgeGUI version: 5.4.1
lfgui# help
Available commands:
  cli: Send LANforge CLI command. This can be useful for requesting the GUI update
       its data, for instance: cli show_ports
  flush_ss: Flush spread-sheet info to the file system immediately.
  set_reporting <start | stop> <precision-in-seconds: 0 means best> <"save-to-direct
ory">
  ## For automating chamber-view tests (plugins, etc)
  cv set 'instance-name' 'object' 'value'
  cv create 'instance-type' 'instance-name'
  cv click 'instance-name' 'object'
  cv load 'instance-name' 'config-name'
  cv get 'instance-name' 'object'
  cv apply scenario
  cv build
  cv delete 'instance-name'
  help: Give this help message.
  exit: Log out of this command session

lfgui#
```