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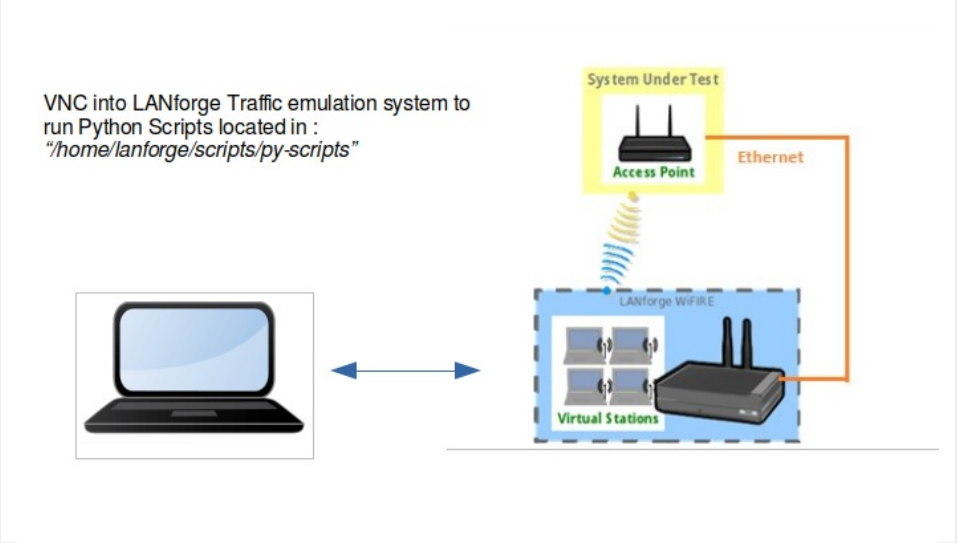
Start Here: Introduction to Executing Python Script on LANforge

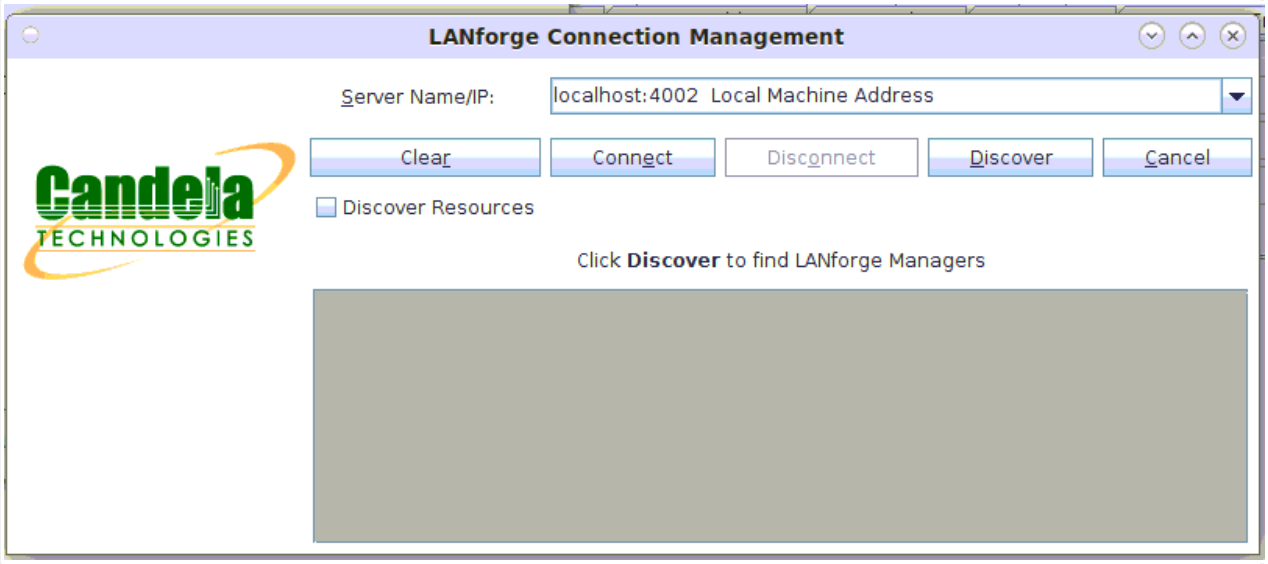
Goal: Run First Python Script on LANforge

Each LANforge system has Python scripts preinstalled at `/home/lanforge/scripts` to configure the LANforge and run Traffic Emulation. Goal is to execute sta_connect2.py, one of the pre-installed python scripts located at `/home/lanforge/scripts/py-script/sta_connect2.py`



The Script sta_connect2.py will create a station, create TCP and UDP traffic, run traffic for a short amount of time, and verify whether traffic was sent and received. It also verifies the station connected to the requested BSSID if bssid is specified as an argument. The script will clean up the station and connections at the end of the test. An html and pdf or the results will be generated and placed in /home/lanforge/html-reports directory The script will clean up the station and connections at the end of the test.

1. **Start the LANforgeGUI if GUI not running:**
   To start the LANforgeGUI navigate to : `/home/lanforge/LANforgeGUI_5.4.5`
   Execute : `./lfclient.bash`
   Select 'Connect' to connect to: `localhost:4002 Local Machine Address`



2. **Where Do I Find Scripts?**
   Preinstalled Python Scripts Location on LANforge: `/home/lanforge/scripts/py-scripts`
   Example script sta_connect2.py location: `/home/lanforge/scripts/py-scripts/sta_connect2.py`

3. **Initial Information to gather as input to sta_connect2.py script:**

   Note: An example of a Device Under Test is an Access Point

   The DUT information is used in report generation. The DUT information may be optional.

   A. The LANforge manager IP address: --mgr [localhost]

   B. The LANforge upstream port: --upstream_port [eth port]

   C. The LANforge radio: --radio [radio]

   D. The Device Under Test ssid: --dut_ssid [ssid]

   E. The Device Under Test passwd: --dut_passwd [passwd]

   F. The Device Under Test security: --dut_security [security]

   G. The Device Under Test Model Number: --dut_model_num [model]

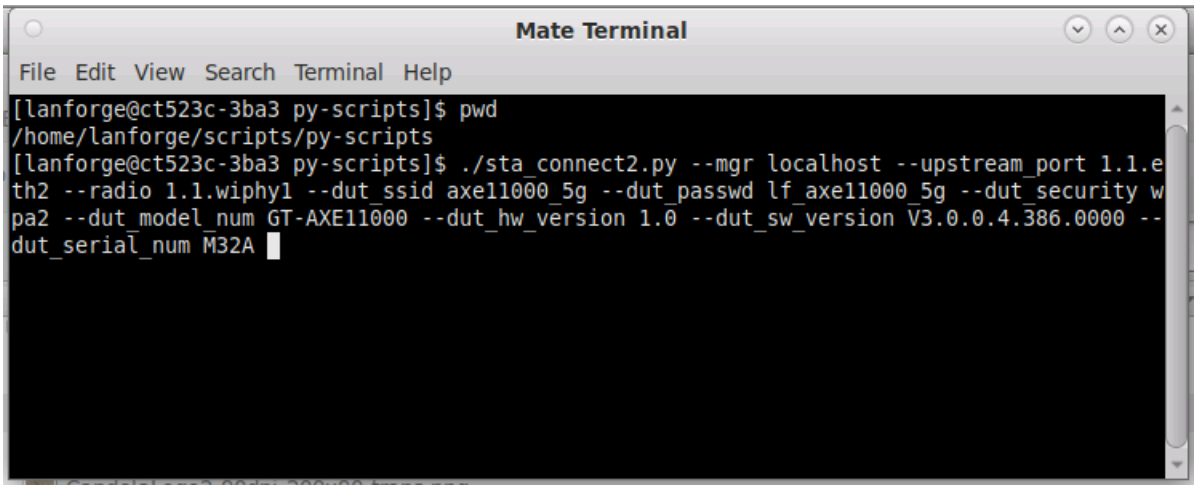
   H. The Device Under Test Hardware Version: --dut_hw_version [hw version]

   I. The Device Under Test Software Version: --dut_sw_version [sw version]

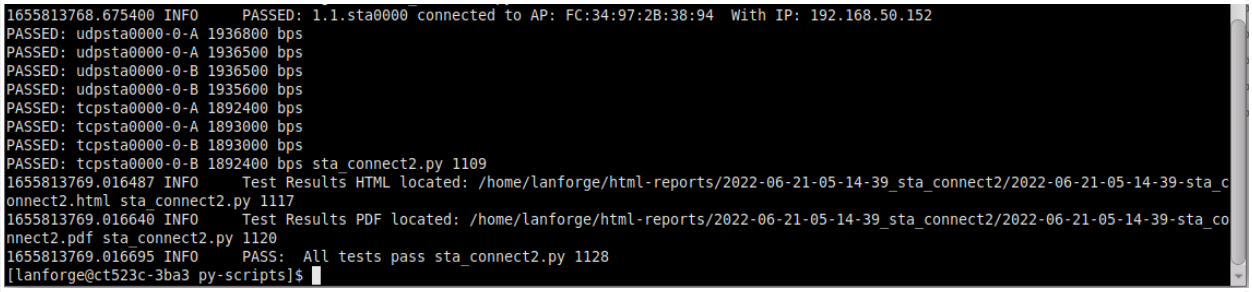
   J. The Device Under Test Serial Number: --dut_serial_num [serial number]

4. **Example Command for sta_connect2.py:**

```
./sta_connect2.py --mgr locahost --upstream_port 1.1.eth2
    --radio 1.1.wiphy1 --dut_ssid axe11000_5g --dut_passwd lf_axe11000_5g --dut_security wpa2
    --dut_model_num GT-AXE11000 --dut_hw_version 1.0 --dut_sw_version V3.0.0.4.386.0000
    --dut_serial_num M32A
```



5. **Results for sta_connect2.py located in /home/lanforge/html-reports:**



6. **Results for sta_connect2.py located in /home/lanforge/html-reports:**
   Script produces both html and pdf results
   Sample sta_connect2.py Script HTML Output: example of html output
   Sample sta_connect2.py Script pdf Output: example of pdf output
   Other script options may be show by typing ./sta_connect2.py --help