

Load Scenarios And Control Test Groups With Python

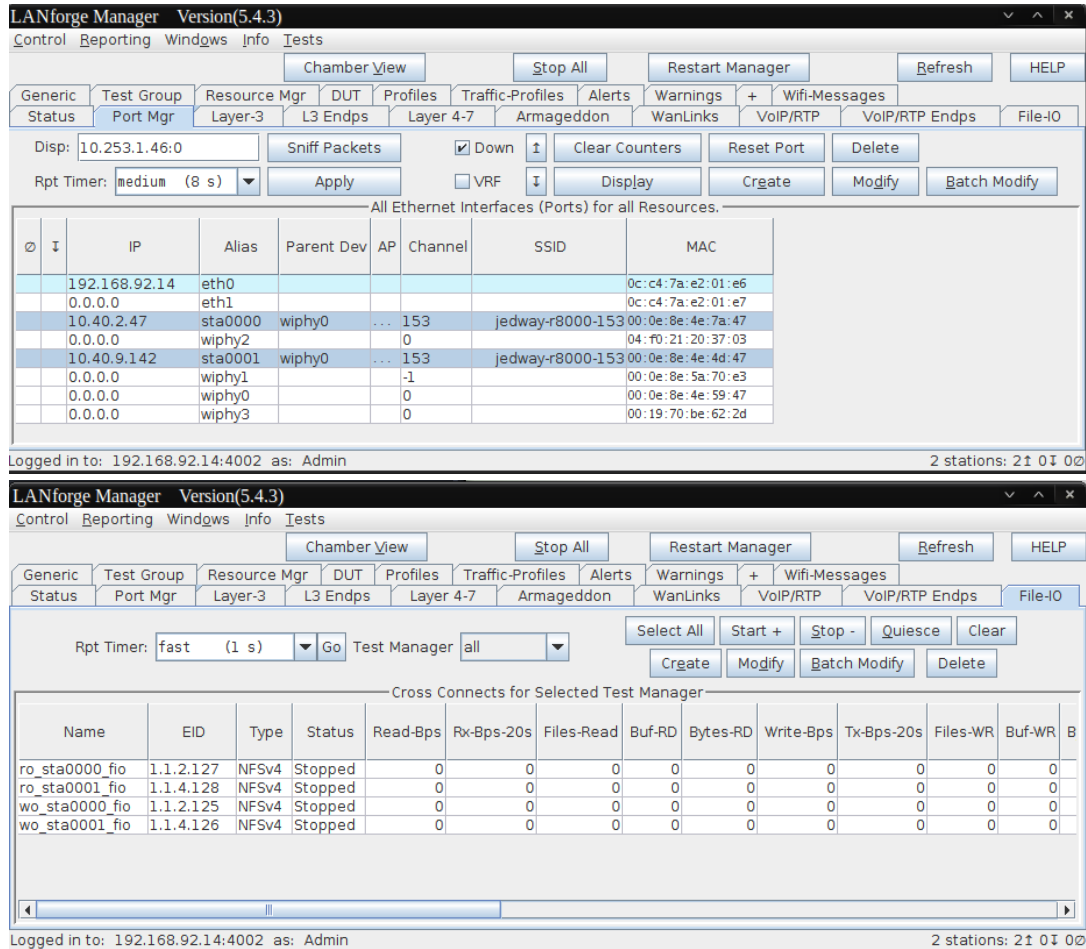
Goal: Using a python script to load scenarios and start, stop, and quiesce test groups
This cookbook will demonstrate how we can use json to load DB scenarios and control test groups using python. We will be referencing the script `scenario.py`. Requires LANforge 5.4.2.

1.

Running The Script

A. Setting up

A. For this example we are using a database called `fiio_test_group`. It has two stations that each have a read-only and write-only file-io endpoint attached to them.



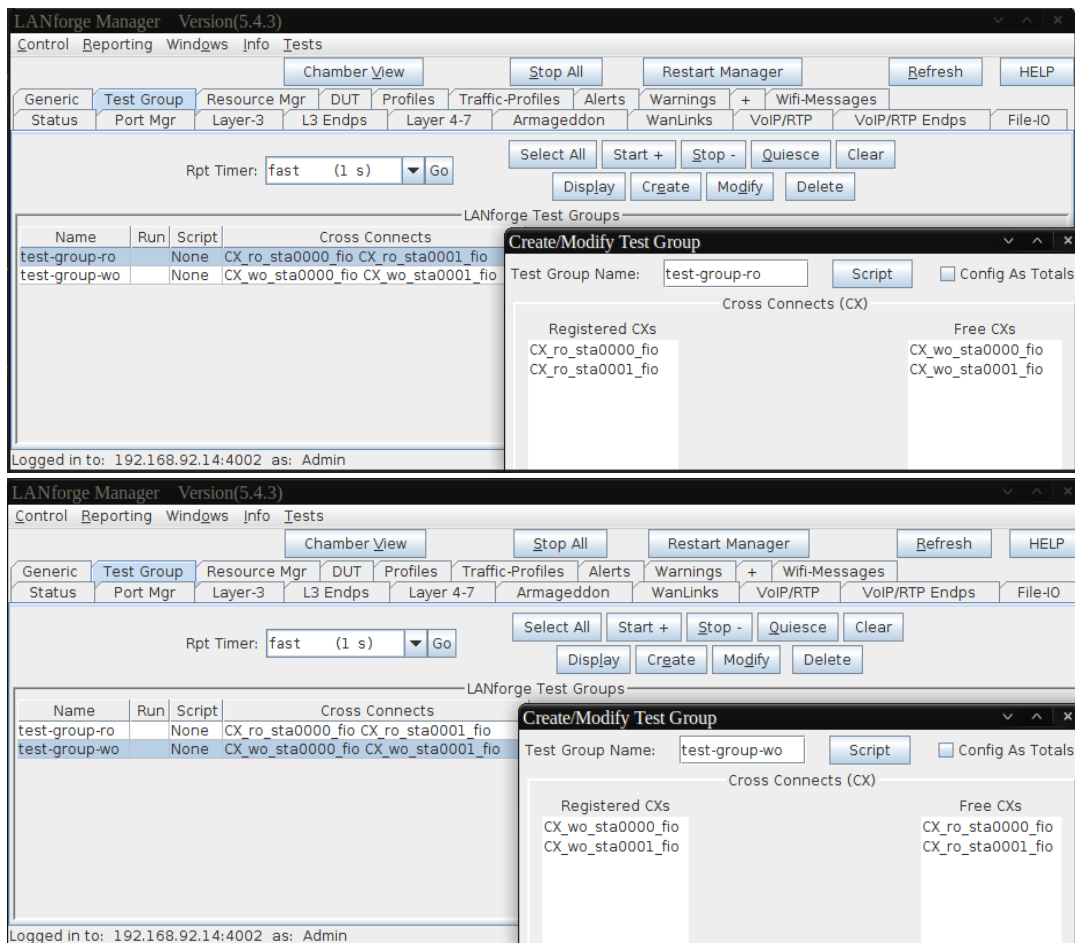
The top screenshot shows the LANforge Manager interface with the following table:

IP	Alias	Parent Dev	AP	Channel	SSID	MAC
192.168.92.14	eth0					0c:c4:7a:e2:01:e6
0.0.0.0	eth1					0c:c4:7a:e2:01:e7
10.40.2.47	sta0000	wiphy0	...	153	jedway-r8000-153	00:0e:8e:4e:7a:47
0.0.0.0	wiphy2			0		04:f0:21:20:37:03
10.40.9.142	sta0001	wiphy0	...	153	jedway-r8000-153	00:0e:8e:4e:4d:47
0.0.0.0	wiphy1			-1		00:0e:8e:5a:70:e3
0.0.0.0	wiphy0			0		00:0e:8e:4e:59:47
0.0.0.0	wiphy3			0		00:19:70:be:62:2d

The bottom screenshot shows the LANforge Manager interface with the following table:

Name	EID	Type	Status	Read-Bps	Rx-Bps-20s	Files-Read	Buf-RD	Bytes-RD	Write-Bps	Tx-Bps-20s	Files-WR	Buf-WR	B
ro_sta0000_fio	1.1.2.127	NFSv4	Stopped	0	0	0	0	0	0	0	0	0	0
ro_sta0001_fio	1.1.4.128	NFSv4	Stopped	0	0	0	0	0	0	0	0	0	0
wo_sta0000_fio	1.1.2.125	NFSv4	Stopped	0	0	0	0	0	0	0	0	0	0
wo_sta0001_fio	1.1.4.126	NFSv4	Stopped	0	0	0	0	0	0	0	0	0	0

Each pair of file-io endpoints are in a group. One group is named `test-group-ro` and the other is `test-group-wo`.



2.

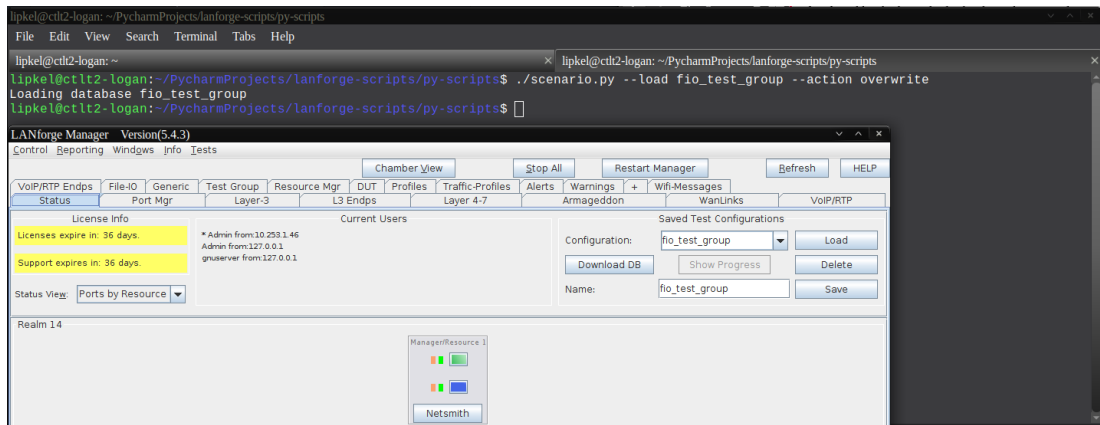
Script Examples

A. The Command and Available Options

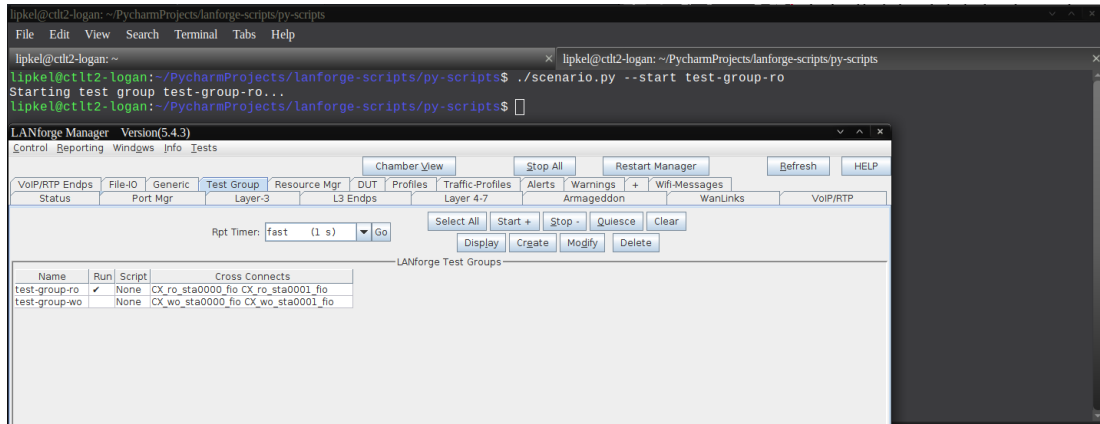
- The script is located in `lanforge-scripts/py-scripts/`. From that directory we can use `./scenario.py` to run the script.
- The available options are:
 - `--load db_name` | This will load the database named `db_name`
 - `--action (overwrite, append)` | Optional argument to be used with `--load`, will specify an action to take when loading the database. The default action is to overwrite. The append option is more difficult to use and its use is discouraged. See [here](#) for more info.
 - `--clean_dut` | Optional argument to be used with `--load`, will cleanup DUTs on load. See [here](#) for more info.
 - `--clean_chambers` | Optional argument to be used with `--load`, will cleanup Chambers on load. See [here](#) for more info.
 - `--start group_name` | This will start the cross-connects in the specified group
 - `--stop group_name` | This will stop the cross-connects in the specified group
 - `--quiesce group_name` | This will quiesce the cross-connects in the specified group

B. Examples of Running the Script

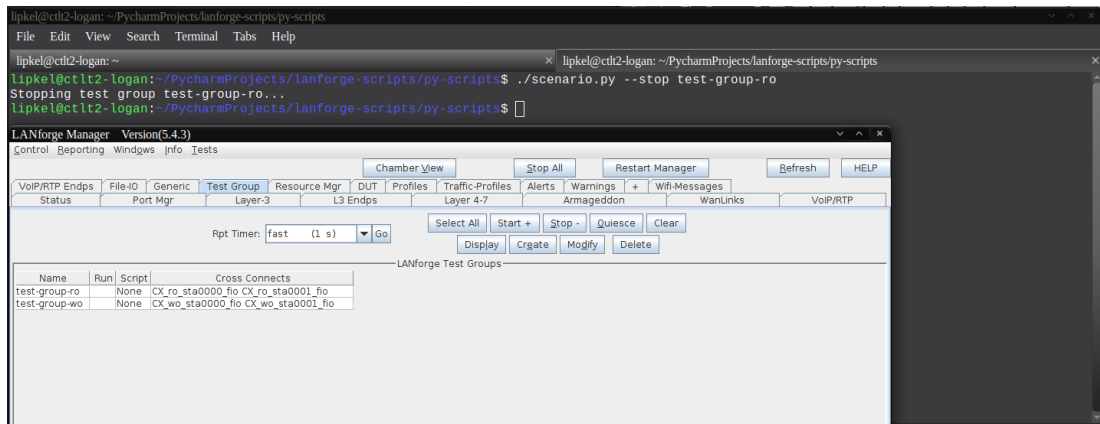
- Loading `fio_test_group` with overwrite



■ Starting test-group-ro



■ Stopping test-group-ro



■ Quiescing test-group-wo

