

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 `fio_test_group`. It has two stations that each have a read-only and write-only file-io endpoint attached to them.

LANforge Manager Version(5.4.3)
Control Reporting Windows Info Tests

Chamber View Stop All Restart Manager Refresh HELP

Generic Test Group Resource Mgr DUT Profiles Traffic-Profiles Alerts Warnings + Wifi-Messages

Status Port Mgr Layer-3 L3 Endps Layer 4-7 Armageddon WanLinks VoIP/RTP VoIP/RTP Endps File-IO

Disp: 10.253.1.46:0 Sniff Packets [x] Down [↑] Clear Counters Reset Port Delete

Rpt Timer: medium (8 s) Apply [x] VRF [↓] Display Create Modify Batch Modify

All Ethernet Interfaces (Ports) for all Resources.

ID	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

Logged in to: 192.168.92.14:4002 as: Admin 2 stations: 21 0 0 0

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Generic Test Group Resource Mgr DUT Profiles Traffic-Profiles Alerts Warnings + Wifi-Messages

Status Port Mgr Layer-3 L3 Endps Layer 4-7 Armageddon WanLinks VoIP/RTP VoIP/RTP Endps File-IO

Rpt Timer: fast (1 s) Go Test Manager all [v] Select All Start + Stop - Quiesce Clear

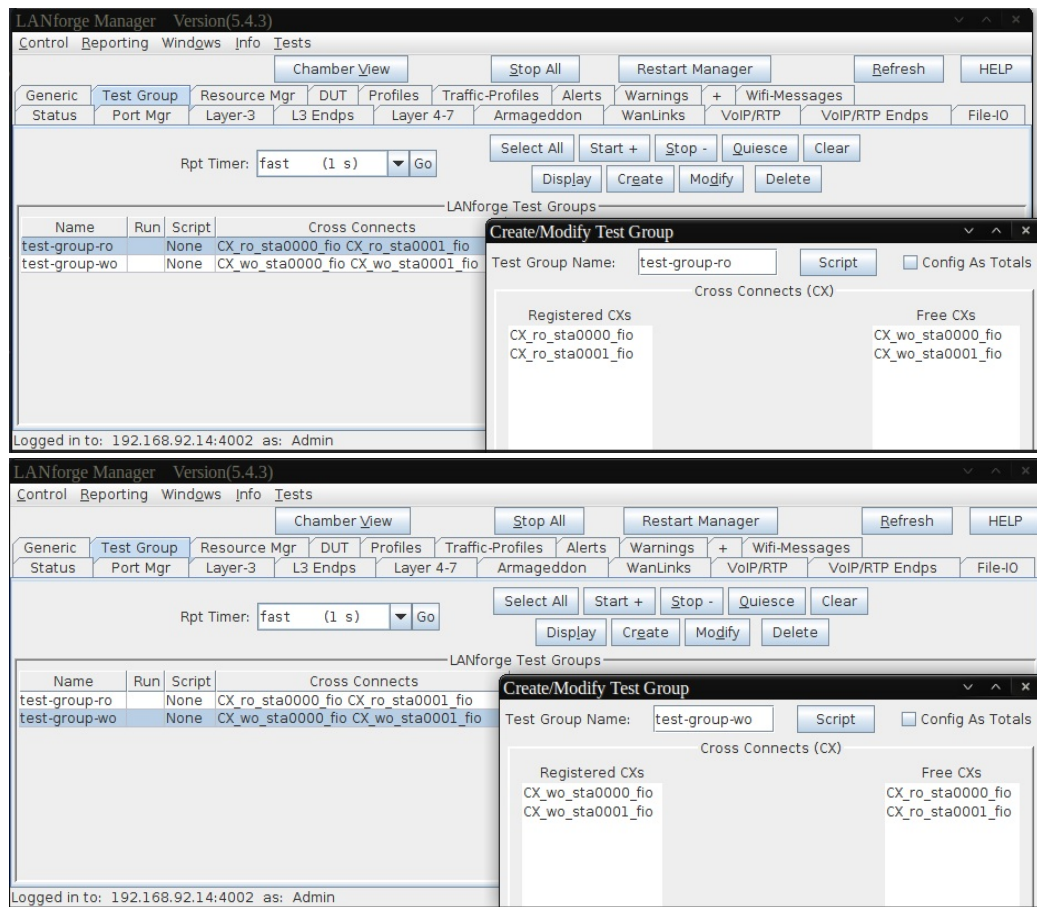
Create Modify Batch Modify Delete

Cross Connects for Selected Test Manager

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

Logged in to: 192.168.92.14:4002 as: Admin 2 stations: 21 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

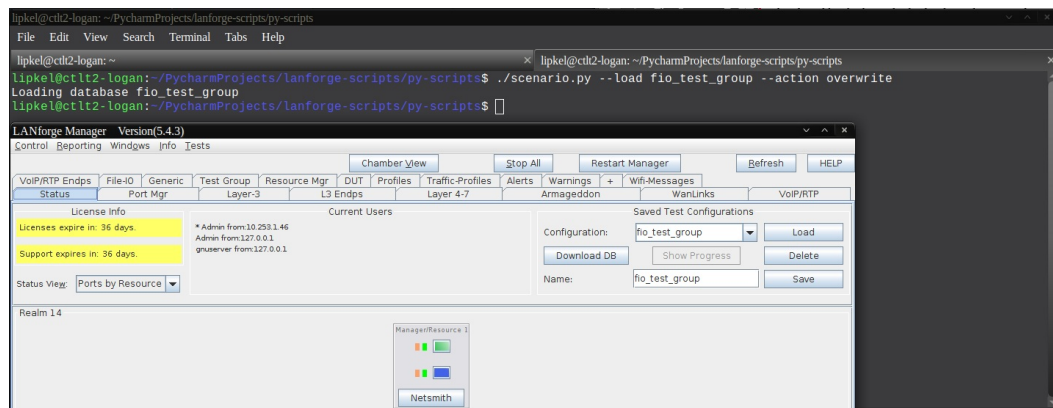
A. The script is located in `lanforge-scripts/py-scripts/`. From that directory we can use `./scenario.py` to run the script.

B. The available options are:

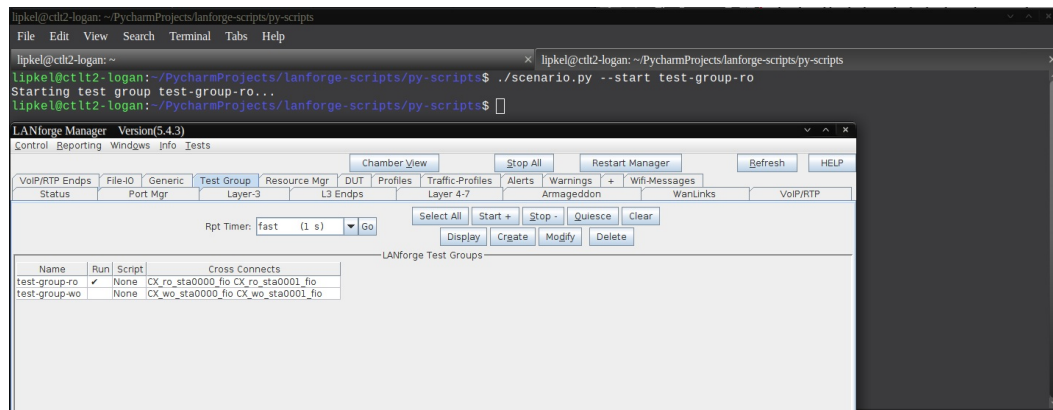
1. `--load db_name` | This will load the database named `db_name`
2. `--action (overwrite, append)` | Optional argument to be used with `--load`, will specify an action to take when loading the database. The default action is to overwrite. The append option is more difficult to use and its use is discouraged. See [here](#) for more info.
3. `--clean_dut` | Optional argument to be used with `--load`, will cleanup DUTs on load. See [here](#) for more info.
4. `--clean_chambers` | Optional argument to be used with `--load`, will cleanup Chambers on load. See [here](#) for more info.
5. `--start group_name` | This will start the cross-connects in the specified group
6. `--stop group_name` | This will stop the cross-connects in the specified group
7. `--quiesce group_name` | This will quiesce the cross-connects in the specified group

B. Examples of Running the Script

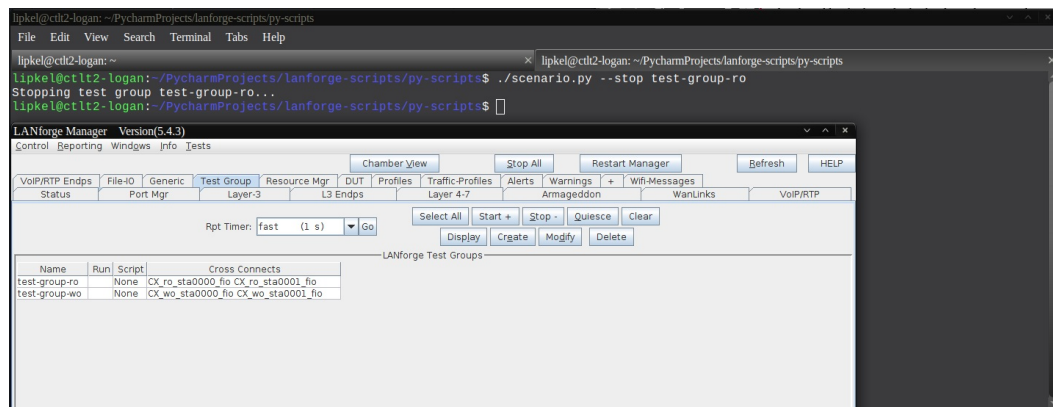
- Loading `fio_test_group` with overwrite



■ Starting test-group-ro



■ Stopping test-group-ro



■ Quiescing test-group-wo

