Robot Load Test Utility

A rudimentary utility for defining and running concurrent testsuite tests is available for execution in the Robot container.

The following is an example of the JSON definition of a loadtest that may be input into the utility.

loadtest.json

```
{
 "duration" : 300,
 "cyclelength" : 150,
 "profile" : [
 [0, ["health"]],
 [5, ["health"]],
 [10, ["distribution", "health"]]
 ]
 }
```

The meaning of this is

1. Run the profile for "duration" (300 seconds or 5 minutes)
2. A single iteration over profile is "cyclelength" (150 seconds). cyclelength >= the accumulated profile time.
3. Wait 0 seconds and initiate "health" test
4. Wait 5 seconds and initate "health" test
5. Wait 10 seconds and initiate a "distribution" and a "health" test
6. Wait until end of cyclelength and start again until duration expires.

Invoking Load Test via runSoak.sh

```
Usage: TestMain.py [options]

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Options:
  --version             show program's version number and exit
  -h, --help            show this help message and exit
  -d DURATION, --duration=DURATION
                        duration of soak test in seconds [default: none]
  -l LOGFILE, --logfile=LOGFILE
                        Full path soak log file name
  -c CYCLELENGTH, --cyclelength=CYCLELENGTH
                        Length of a single cycle through the config. Must be
                        longer than a single iteration
  -p PROFILE, --profile=PROFILE
                        Filename of json profile file
```

- Upload profile file to robot VM **/opt/eteshare** to make it available to the Robot docker container in **/share**
- Connect to docker container

```
docker exec -it openecompete_container bash
```

- cd to Robot home folder

```
cd /var/opt/OpenECOMP_ETE
```

- Run the runSoak.sh against the uploaded file (Note that **duration** and **cyclelength** may be overridden on the command line.)

./runSoak.sh -p /share/loadtest.json

- Output is redirected to **/share/logs/soak_<pid>.log** or **/opt/etehsare/logs/soak_<pid>.log** so these can be tailed for progress.

soak_2367.log

```
INFO:root:Cycle length is 150 seconds
Duration is 300 seconds
00000000 : 00000000 : health
00000005 : 00000005 : health
00000010 : 00000015 : distribution
00000010 : 00000015 : health
00000135 : 00000150 :
INFO:root:1514396947.16:1514397247.16:1514396947.16
INFO:root:RunEte_1 (health) started - 2017-12-27 17:49:07.164492
INFO:root:RunEte_1 (health) Starting Xvfb on display :1 with res 1280x1024x24
Executing robot test health at log level INFO

INFO:root:RunEte_1 (health) ended - 2017-12-27 17:49:10.498334
INFO:root:Removing RunEte_1
INFO:root:RunEte_2 (health) started - 2017-12-27 17:49:12.170611
INFO:root:RunEte_2 (health) Starting Xvfb on display :2 with res 1280x1024x24
Executing robot test health at log level INFO

INFO:root:RunEte_2 (health) ended - 2017-12-27 17:49:15.114132
INFO:root:Removing RunEte_2
INFO:root:RunEte_3 (distribution) started - 2017-12-27 17:49:22.181243
INFO:root:RunEte_4 (health) started - 2017-12-27 17:49:22.182095
INFO:root:RunEte_3 (distribution) Starting Xvfb on display :3 with res 1280x1024x24
Executing robot test distribution at log level INFO

INFO:root:RunEte_3 (distribution) ended - 2017-12-27 17:49:23.949889
INFO:root:RunEte_4 (health) Starting Xvfb on display :4 with res 1280x1024x24
Executing robot test health at log level INFO

INFO:root:RunEte_4 (health) ended - 2017-12-27 17:49:25.145460
INFO:root:Removing RunEte_4
INFO:root:Removing RunEte_3
INFO:root:RunEte_5 (health) started - 2017-12-27 17:51:37.208647
INFO:root:RunEte_5 (health) Starting Xvfb on display :5 with res 1280x1024x24
Executing robot test health at log level INFO

INFO:root:RunEte_5 (health) ended - 2017-12-27 17:51:40.170567
INFO:root:Removing RunEte_5
INFO:root:RunEte_6 (health) started - 2017-12-27 17:51:42.214915
INFO:root:RunEte_6 (health) Starting Xvfb on display :6 with res 1280x1024x24
Executing robot test health at log level INFO

INFO:root:RunEte_6 (health) ended - 2017-12-27 17:51:45.181485
INFO:root:Removing RunEte_6
INFO:root:RunEte_7 (distribution) started - 2017-12-27 17:51:52.225549
INFO:root:RunEte_8 (health) started - 2017-12-27 17:51:52.226430
INFO:root:TestController waiting on RunEte_7
INFO:root:RunEte_7 (distribution) Starting Xvfb on display :7 with res 1280x1024x24
Executing robot test distribution at log level INFO

INFO:root:RunEte_7 (distribution) ended - 2017-12-27 17:51:53.937350
INFO:root:TestController waiting on RunEte_8
INFO:root:RunEte_8 (health) Starting Xvfb on display :8 with res 1280x1024x24
Executing robot test health at log level INFO

INFO:root:RunEte_8 (health) ended - 2017-12-27 17:51:55.277395
INFO:root:Soak test completed
```

Robot logs are written to subfolder **/share/logs/soak_<pid>** or **/opt/etehsare/logs/soak_<pid>**

Remote site: /opt/eteshare/logs

```
└─ 📁 logs
    ├─ ❓ demo
    ├─ ❓ ETE_1226
    ├─ ❓ ETE_14118
    ├─ ❓ ETE_14205
    ├─ ❓ ETE_16641
    ├─ ❓ ETE_16683
    ├─ ❓ ETE_18388
    ├─ ❓ ETE_1947
    ├─ ❓ ETE_21102
    └─ ❓ ETE_2204
```

runSoak.sh stdout

Filename			ast modified	Permissions	Owner/Gro...
..					
soak_2367.log	2,619	Text Docu	12/27/2017 12:	-rw-r--r--	root root
soak_2368				drwxr-xr-x	root root
ETE_2587		File folder	12/12/2017 7:4...	drwxr-xr-x	root root
ETE_1947		File folder	12/12/2017 7:1		

Robot logs for soak test

Remote site | /opt/eteshare/logs/soak_2368

```
    ├─ ❓ ETE_22878
    ├─ ❓ ETE_2299
    ├─ ❓ ETE_2344
    ├─ ❓ ETE_2398
    ├─ ❓ ETE_2446
    ├─ ❓ ETE_2587
    ├─ ❓ ETE_3050
    ├─ ❓ ETE_3150
    ├─ ❓ ETE_31804
    ├─ ❓ ETE_3545
    └─ ⊞ soak_2368
```

Filename	Filesize	Fil
..		
runEteTag_8		Fil
runEteTag_7		Fil
runEteTag_6		Fil
runEteTag_5		Fil
runEteTag_4		Fil
runEteTag_3		Fil
runEteTag_2		Fil
runEteTag_1		Fil

Robot logs