Helsinki:
8-9/Feburary-24
Online:
28-29/February-24

FULL EVENT
PROGRAM VISIT
robocon.io

THE 7th ANNUAL
ROBOT FRAMEWORK
CONFERENCE

RBCN

Robot
Framework
Foundation

RBCN24

RFSWRAM WORKSHOP

PERFORMANCE TEST IN A DAY USING ROBOT FRAMEWORK AND RFSWRAM

KWRD DRVN RPA

RBCN24

Important URL's

- All files from this workshop are available on Github:
  https://github.com/damies13/robocon2024-workshop

- AUT for this workshop:
  http://10.10.0.82/

- Gitpod virtual machine can be used as your "second" machine for running the RFSwarm manager:
  https://gitpod.io

- URL to create the Gitpod virtual machine:
  https://gitpod.io/#https://github.com/damies13/robocon2024-workshop

WORKSHOP OVERVIEW

- Write a simple test case
- Adjust test case for RFSwarm
- Install RFSwarm components
  - Agent
  - Manager
  - Reporter
- Run test from manager in gitpod using your laptop as an agent
- Create a test report

WRITE A SIMPLE TEST CASE

Open Cart Demo shopping cart application will be our AUT

1) Navigate to AUT url
2) Navigate to a product page
3) Enter Quantity and add to cart
4) Repeat steps 2 & 3 a few times
5) Go to cart
6) Proceed through checkout filling mandatory fields (Guest Checkout probably easiest)
7) Confirm Order

ADJUST TEST CASE FOR RFSWARM

- Each step of the test case that you would want to measure a server response time for should be a separate keyword
- Steps that are client side only should also be in a separate keyword
- Use [Documentation] setting to control the name reported to RFSwarm for the timed keywords
- No [Documentation] are “quiet” keywords, they don’t get reported
- Add sleep between test steps, we want to simulate real user sessions
- Consider your data variation, Data files, Faker Library

INSTALL RFSWARM COMPONENTS - AGENT

- On your laptop open a command line / terminal window
- Use pip to install:

  > pip install rfswarm-agent
- Run the agent with the command:

  > rfswarm-agent
- Press Control + C to stop the agent

INSTALL RFSWARM COMPONENTS - MANAGER

- Open your web browser and use the Gitpod virtual machine url to create a virtual machine
- In the virtual machine open a terminal window
- Use pip to install:

  > pip install rfswarm-manager
- Run the manager with the command:

  > rfswarm-manager
- Take note of the open ports on the virtual machine
  - Save the URL for port 8138
- Close the manager GUI

INSTALL RFSWARM COMPONENTS - REPORTER

- Still using the Gitpod virtual machine
- Use pip to install:

  > pip install rfswarm-reporter

- Run the reporter with the command:

  > rfswarm-reporter

- Close the reporter GUI

CONNECT AGENT TO MANAGER

- Open the manager
- Using the url you saved when installing the manager, run the agent on your laptop using the -m option to give the path to the manager

  rf swarm-agent -m https://8138-damies13-robocon2024wor-lqrgpogcphm.ws-us107.gitpod.io
- Check in the Agents tab of the manager that your laptop shows up

PLAN A TEST

- Upload the test script you created to the Gitpod virtual machine
- Select the Plan tab in the manager
- Use the script button to select your robot file
- Select your test name from the dropdown
- Choose how many robots you want to run (nn)
- For this simple test use no delay, 30 min ramp up and 1 hour test
- Explore the settings for this test row
  - Add SeleniumLibrary to the Exclude libraries

RUN A TEST

- On the Plan tab of the manager, click the play button
- Manager will switch to the Run tab
- You can switch between the Agents and Run tabs to watch the progress of the test
- Explore the graphs from the graphs menu

CREATE A TEST REPORT

- Run the reporter with the command:
  > rfswarm-reporter
- Open the result file from the manger
- Use the various section types to create a report that shows what you want to report on
  - Use Data Table as a subsection to a Data Graph
  - Note sections are for free form text
  - Error details for detailed reports about what the fails were

WHAT NEXT

- Add more test cases
- If you have a web app and need thousands of robots you might spend the time to rewrite the high volume test steps with requests library
- Create some monitoring scripts to monitor the AUT servers
- Consider what you need for the AUT you test at work
  - How many agents you'll need
  - Will you need an agent in the data center to monitor your AUT servers

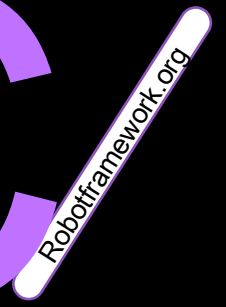
THANKS!
QUESTIONS?

YES

WE`R

OPEN

SRC



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