

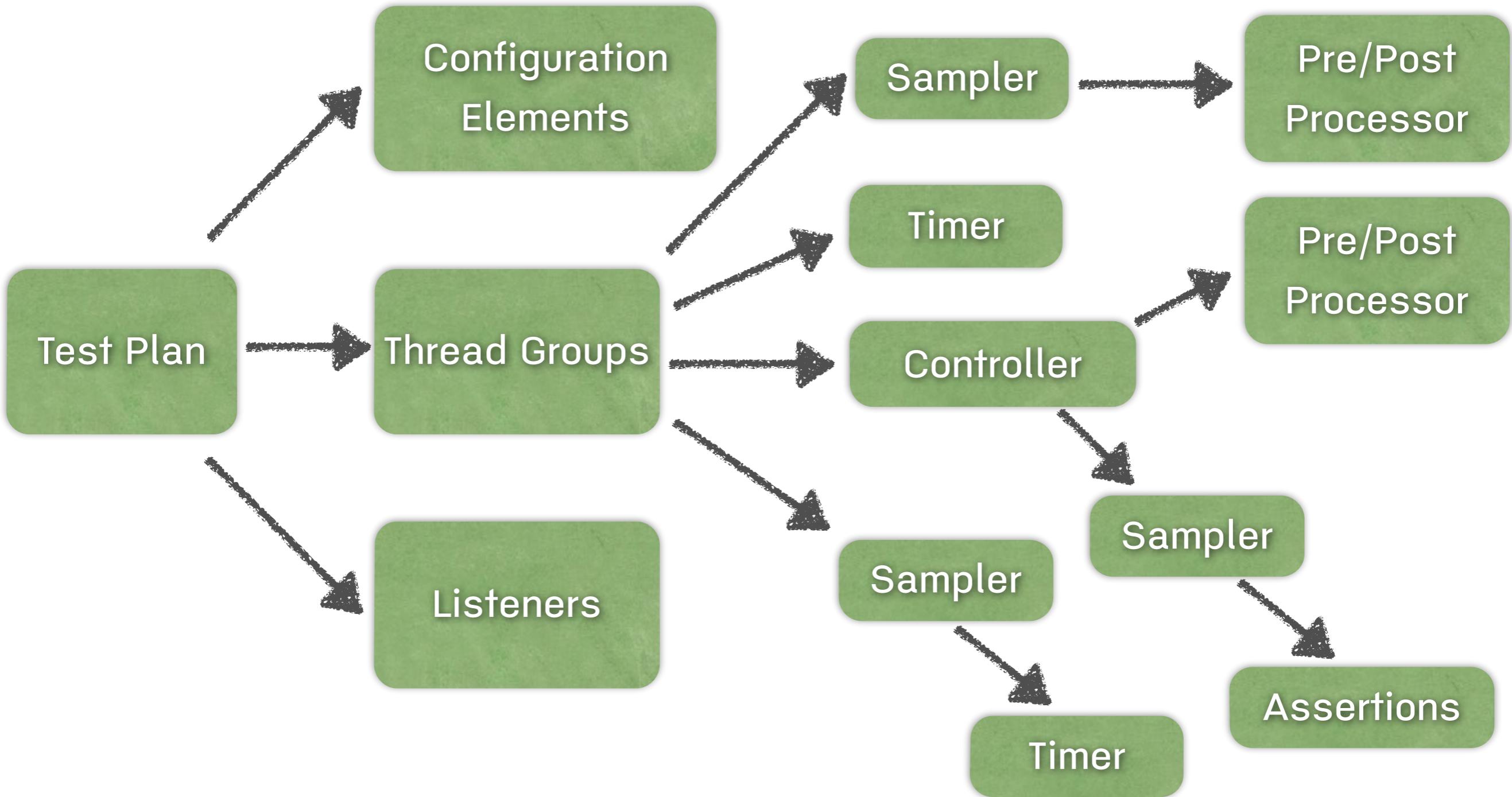
Anatomy of jMeter



SPRINT3R

Siam Chamnankit Co., Ltd., Odd-e (Thailand) Co., Ltd. and Alliance

Anatomy of jMeter



1. Test plan

The screenshot shows the Apache JMeter 2.13 interface with the 'Test Plan' tab selected in the left sidebar. The main area displays the 'Test Plan' configuration.

Test Plan Configuration:

- Name:** Test Plan
- Comments:** (empty)
- User Defined Variables:** A table with columns 'Name' and 'Value'. It currently contains no entries.
- Action Buttons:** Detail, Add, Add from Clipboard, Delete, Up, Down

Execution Options:

- Run Thread Groups consecutively (i.e. run groups one at a time)
- Run tearDown Thread Groups after shutdown of main threads
- Functional Test Mode (i.e. save Response Data and Sampler Data)

Selecting Functional Test Mode may adversely affect performance.

Add directory or jar to classpath

Library: A list box labeled 'Library' which is currently empty.

1. Test plan

Main element for jMeter

Test plan mode

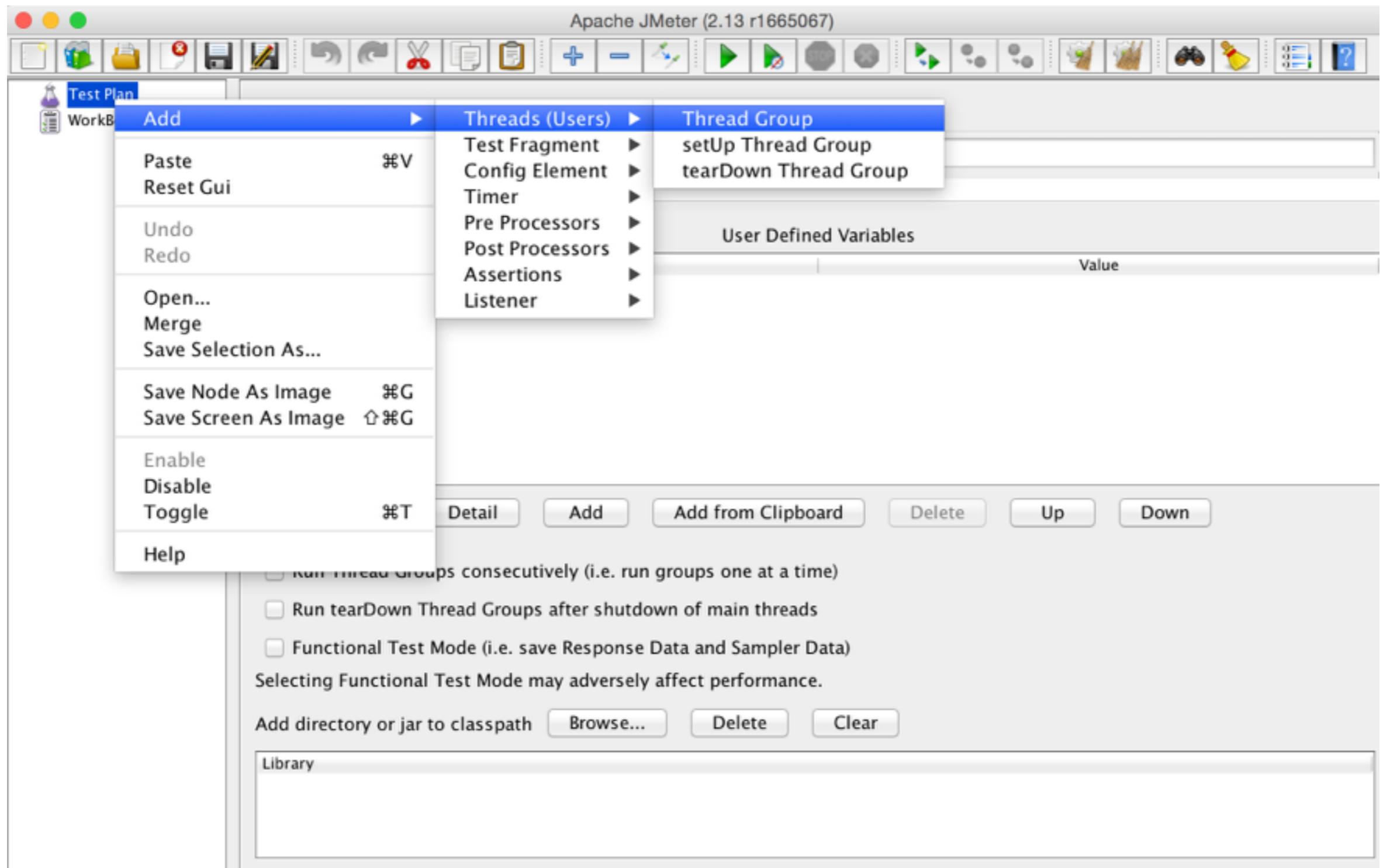
Use for contain the test

Layout of what to test

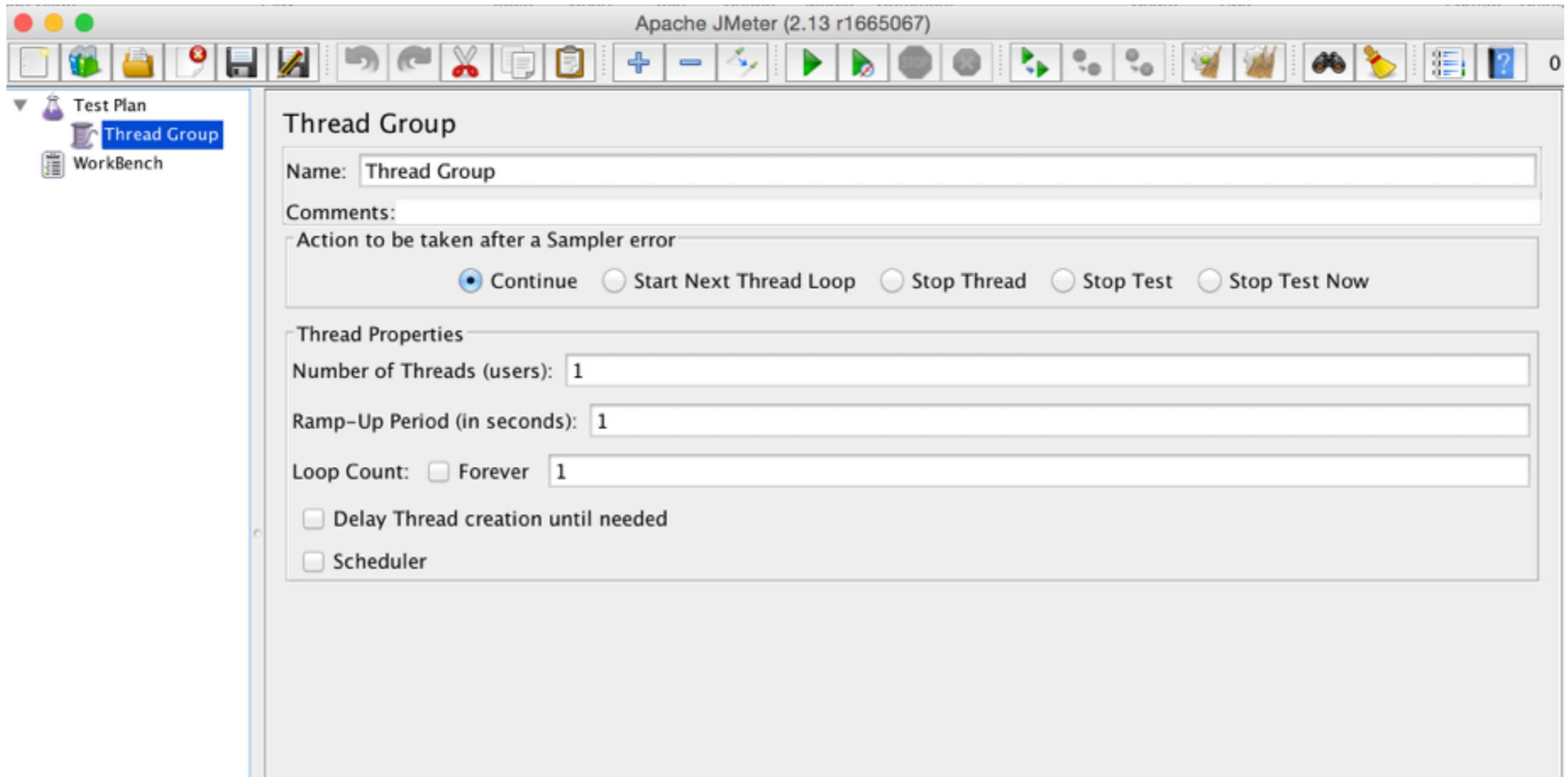
Layout of how to test

Test plan must have at least one **Thread Group**

2. Thread group



2. Thread group



2. Thread group

Use for represent users

One or more thread group in a Test plan

Each thread group is independent

2. Thread group

Number of user (thread)

Ramp up time (how long to start all thread)

Number of time to perform the test

Thread Properties

Number of Threads (users):

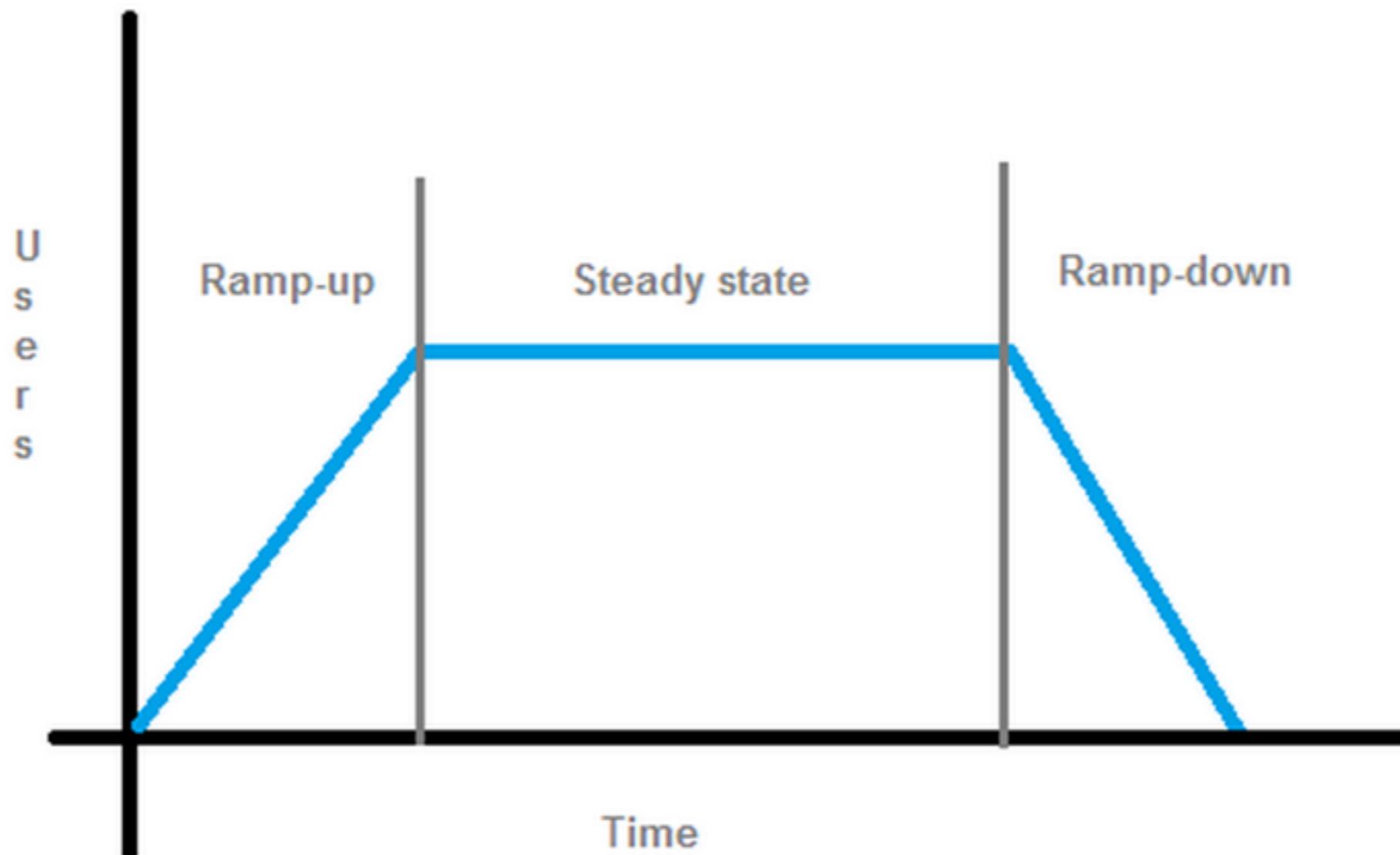
Ramp-Up Period (in seconds):

Loop Count: Forever

Delay Thread creation until needed

Scheduler

Ramp up period



Example 1

Number of threads = 10

Ramp up period = 100

Loop count = 1

- Thread Properties

Number of Threads (users):

Ramp-Up Period (in seconds):

Loop Count: Forever

Delay Thread creation until needed

Scheduler

Example 2

Number of threads = 300

Ramp up period = 0

Loop count = 1

Thread Properties

Number of Threads (users):

Ramp-Up Period (in seconds):

Loop Count: Forever

Delay Thread creation until needed

Scheduler

3. Controller

Use for and apply logic to test items

It's have 2 types

1. **Sampler** (send request to server)
2. **Logic controller** (customize logic to send request)

3.1 Sampler

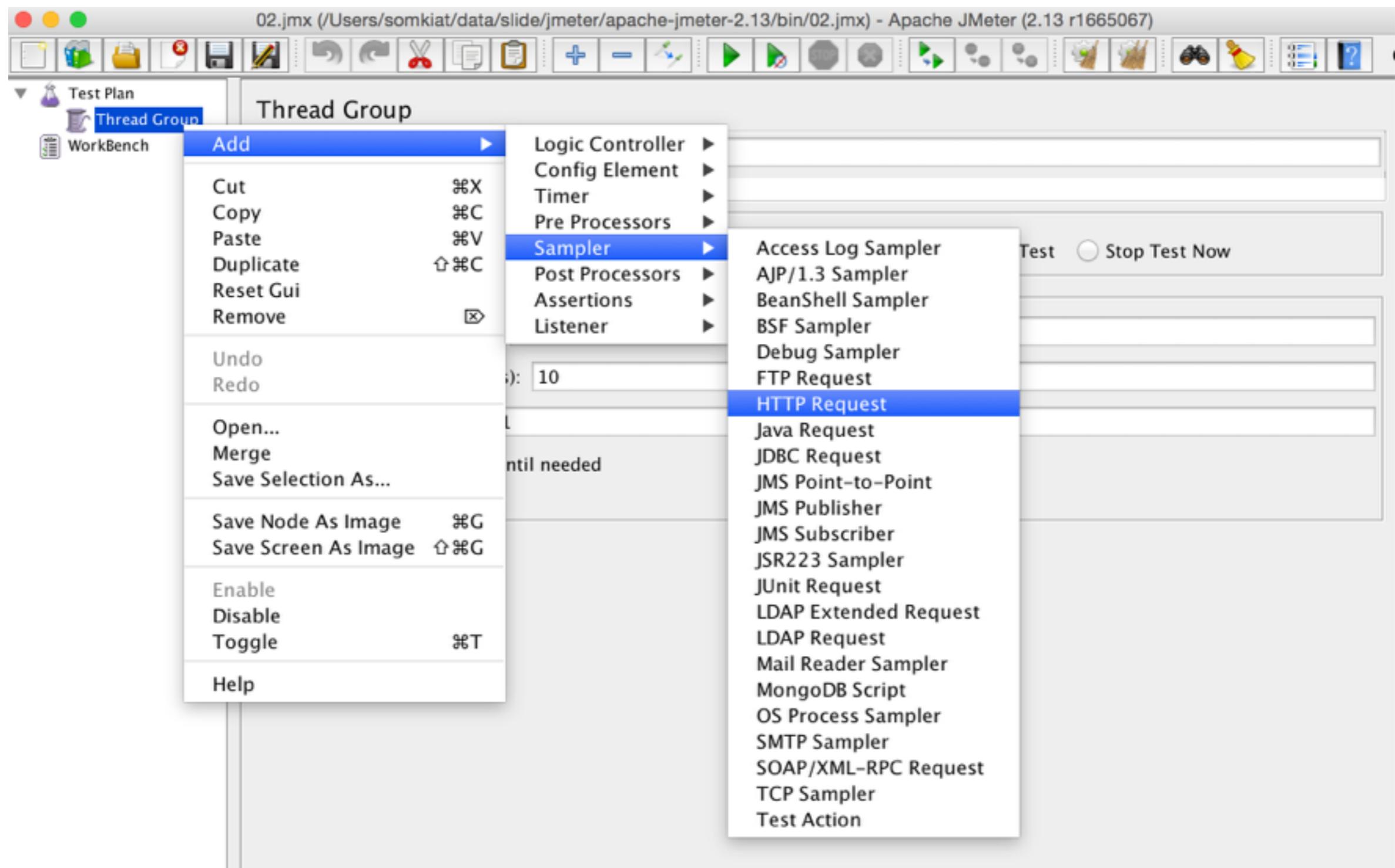
Use for perform actual task

Send specific type of request to server

List of samplers

- HTTP request
- FTP request
- JDBC request
- SOAP request

3.1 Sampler



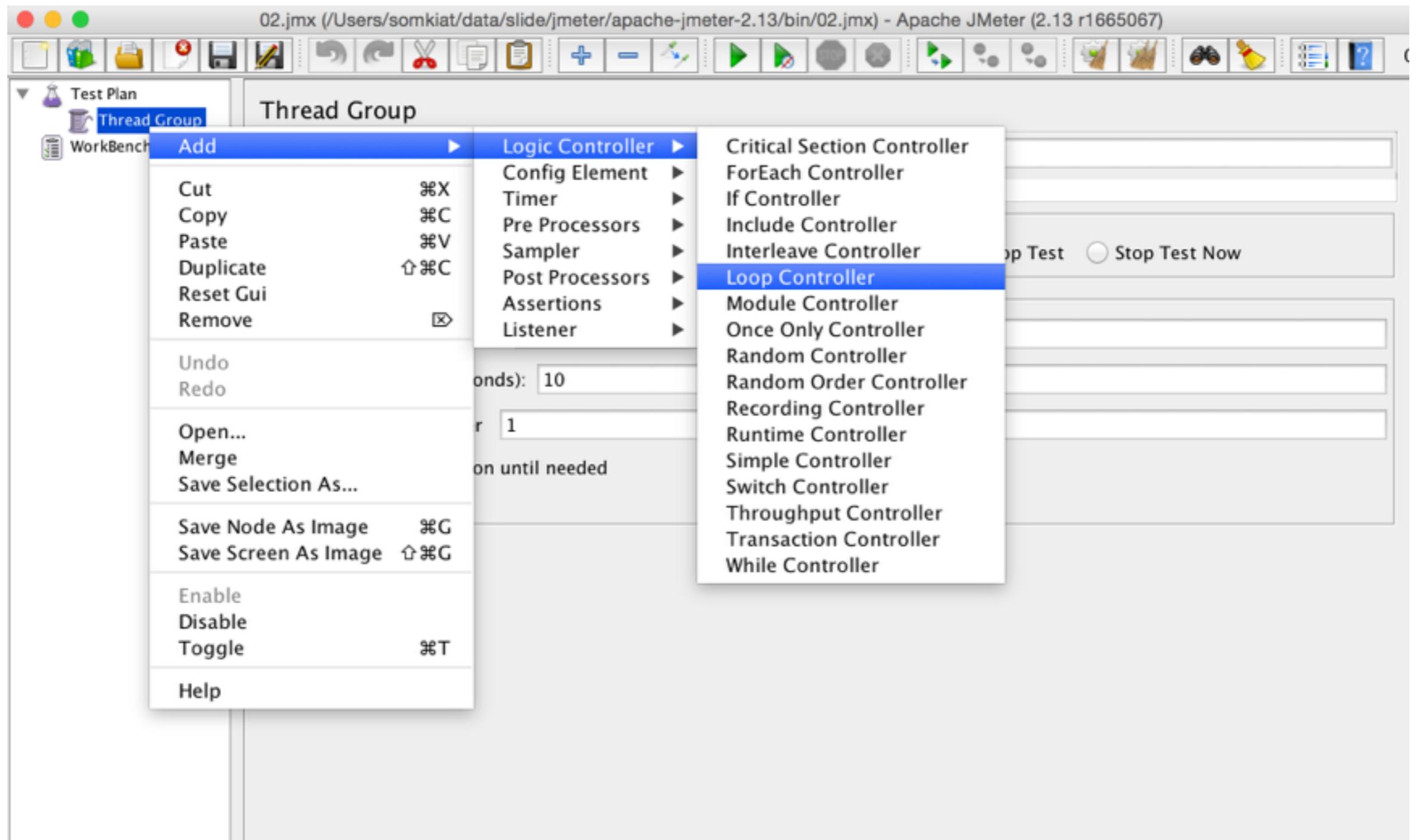
3.2 Logic controller

Logic to decide when to send request

List of logic controllers

- Loop controller
- If controller
- Switch controller
- While controller

3.2 Logic controller



4. Listener

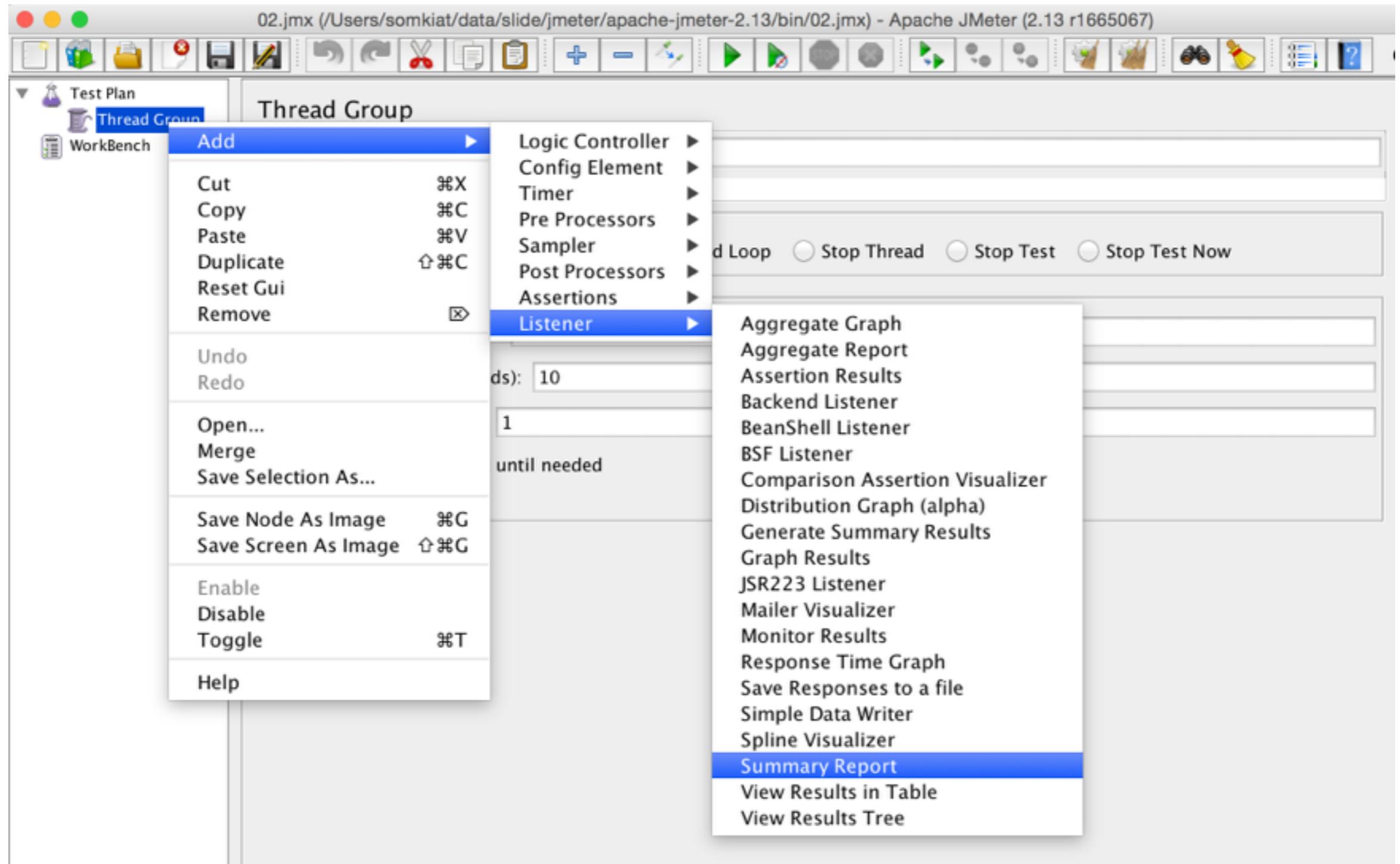
Use for display data

Use to view, save and read test result

List of listeners

- Aggregate report
- Summary report
- View result in table
- View result tree

4. Listener



5. Assertion

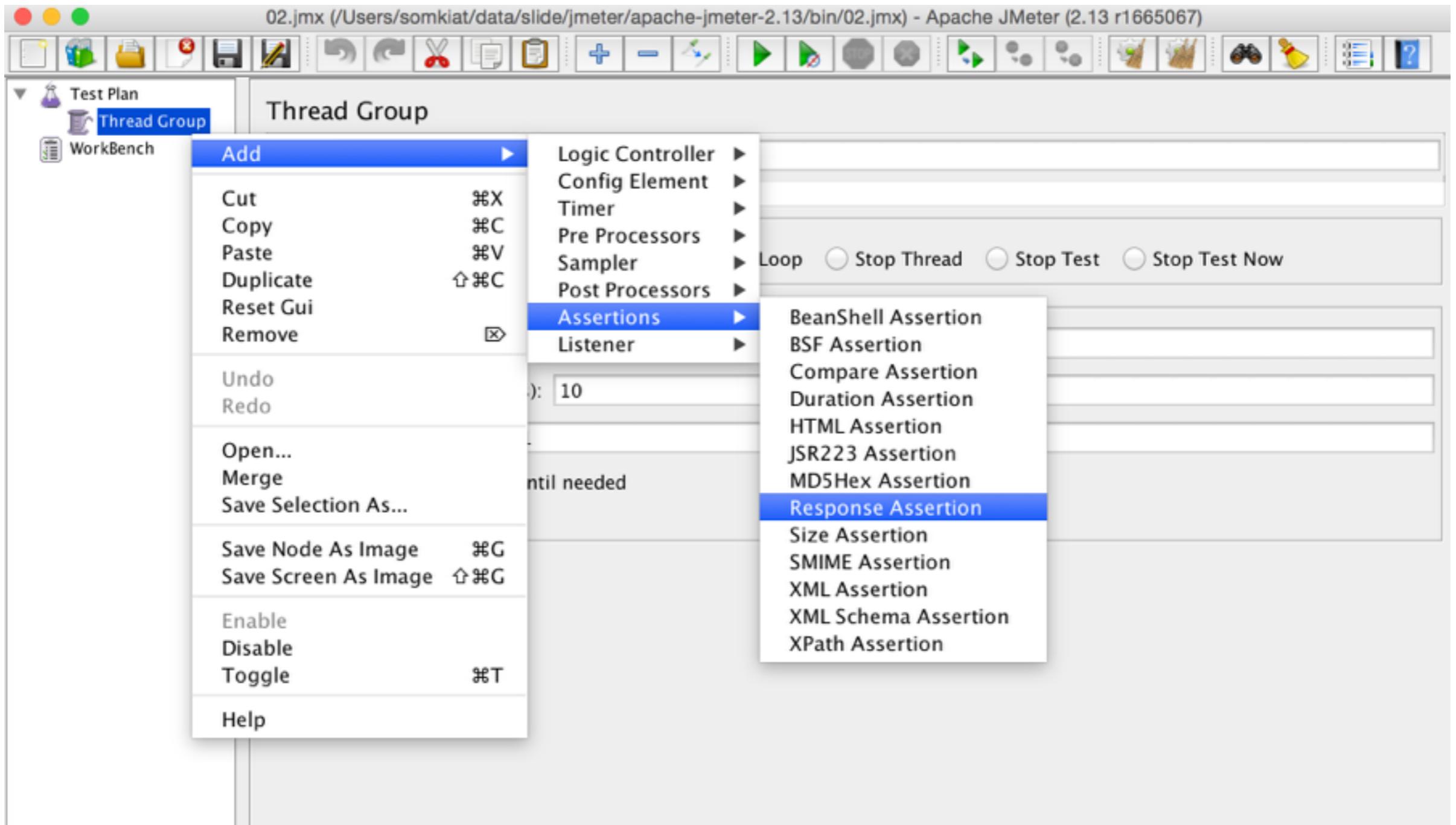
Use for validate test

Check expected result from response

List of assertions

- Response assertion
- Size assertion
- XML assertion
- XPath assertion

5. Assertion



6. Config element

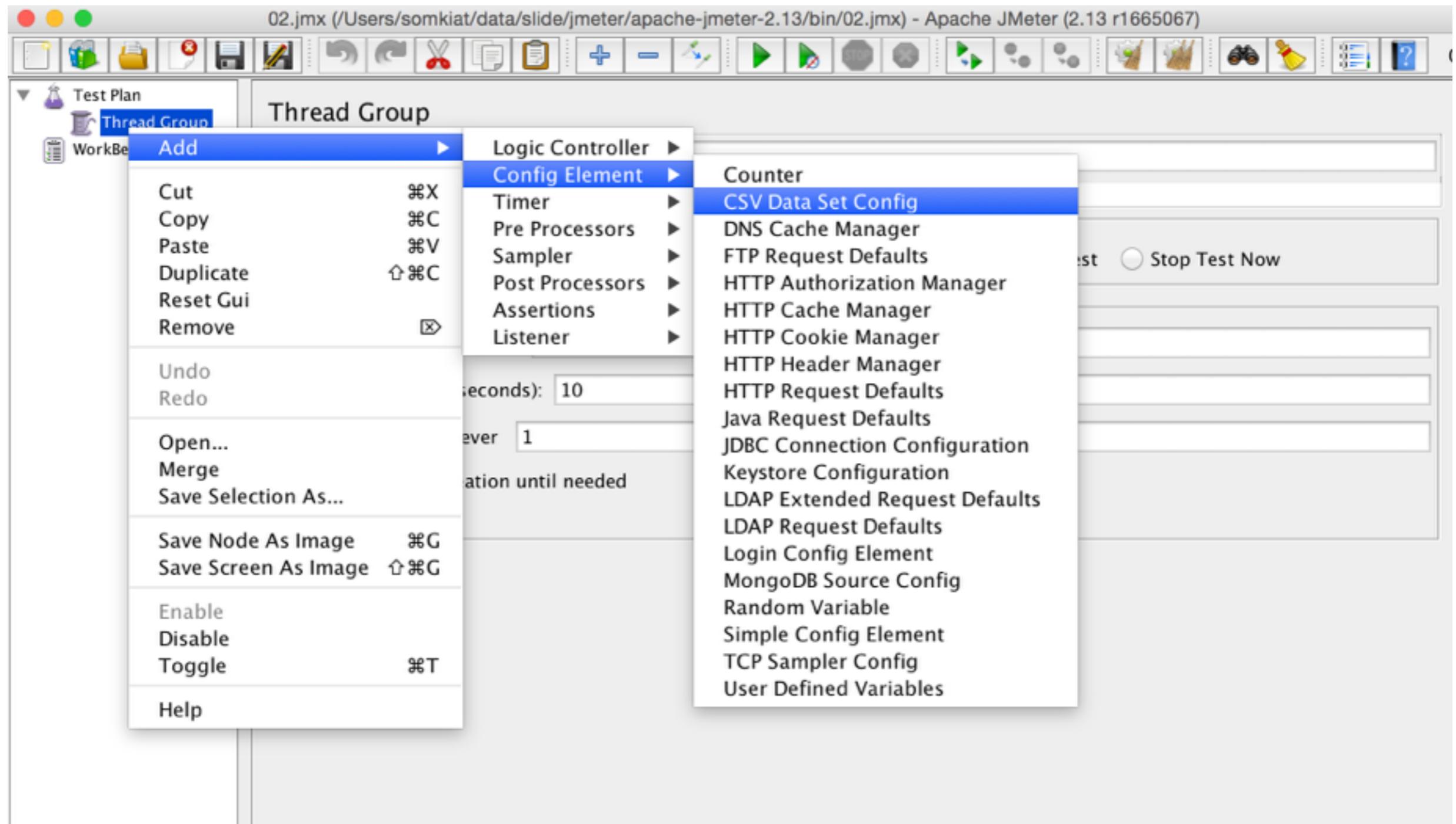
Use to add or modify request from Samplers

Working with data

List of config elements

- CSV data set config
- HTTP cookies manager
- HTTP header manager
- HTTP request default
- JDBC connection configuration
- User defined variables

6. Config element



7. Pre processors

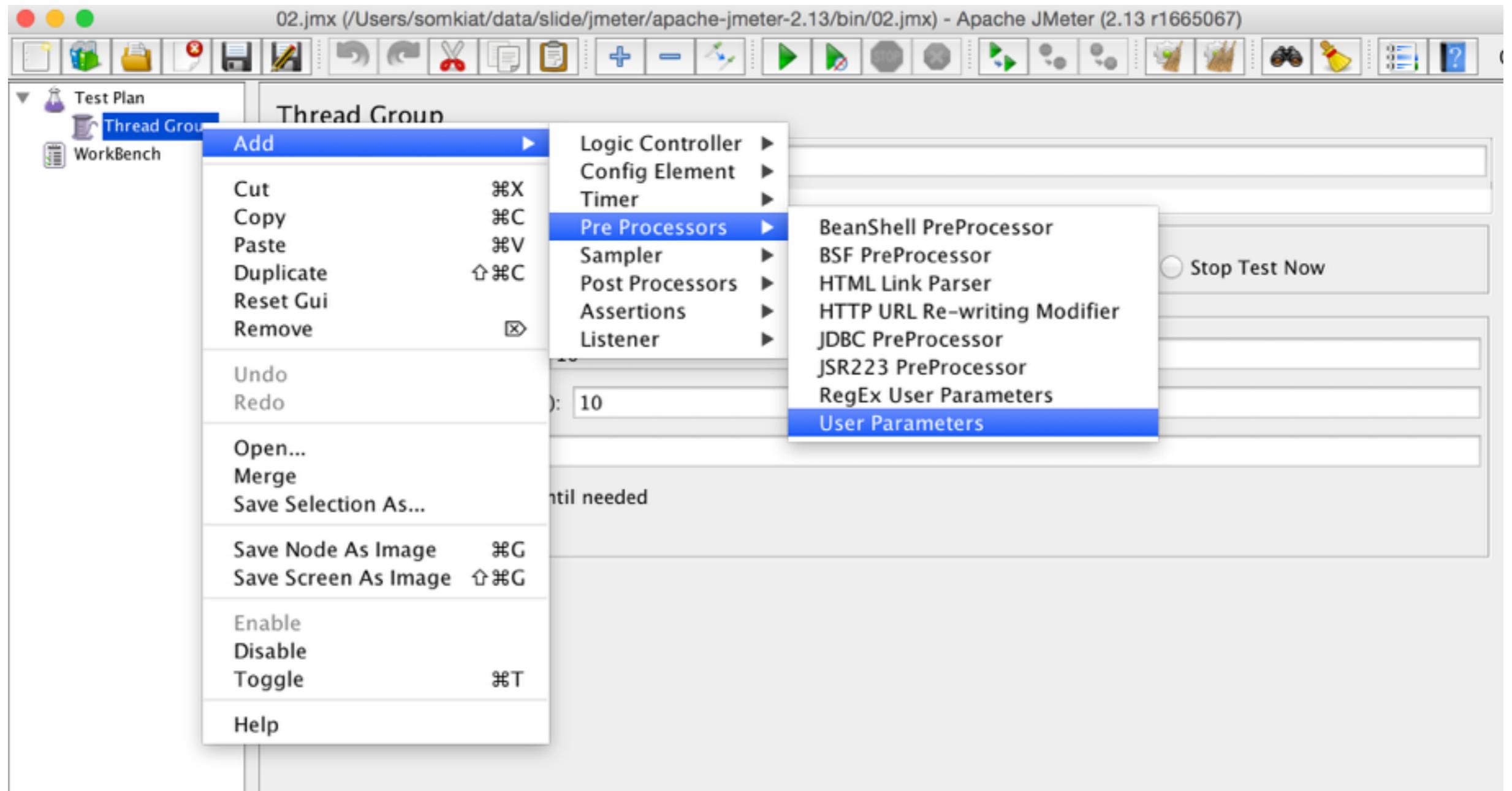
Execute prior Samplers

Modify there settings of sample request

List of pre processors

- HTML link parser
- HTTP url rewrite modifier
- User parameters

7. Pre processors



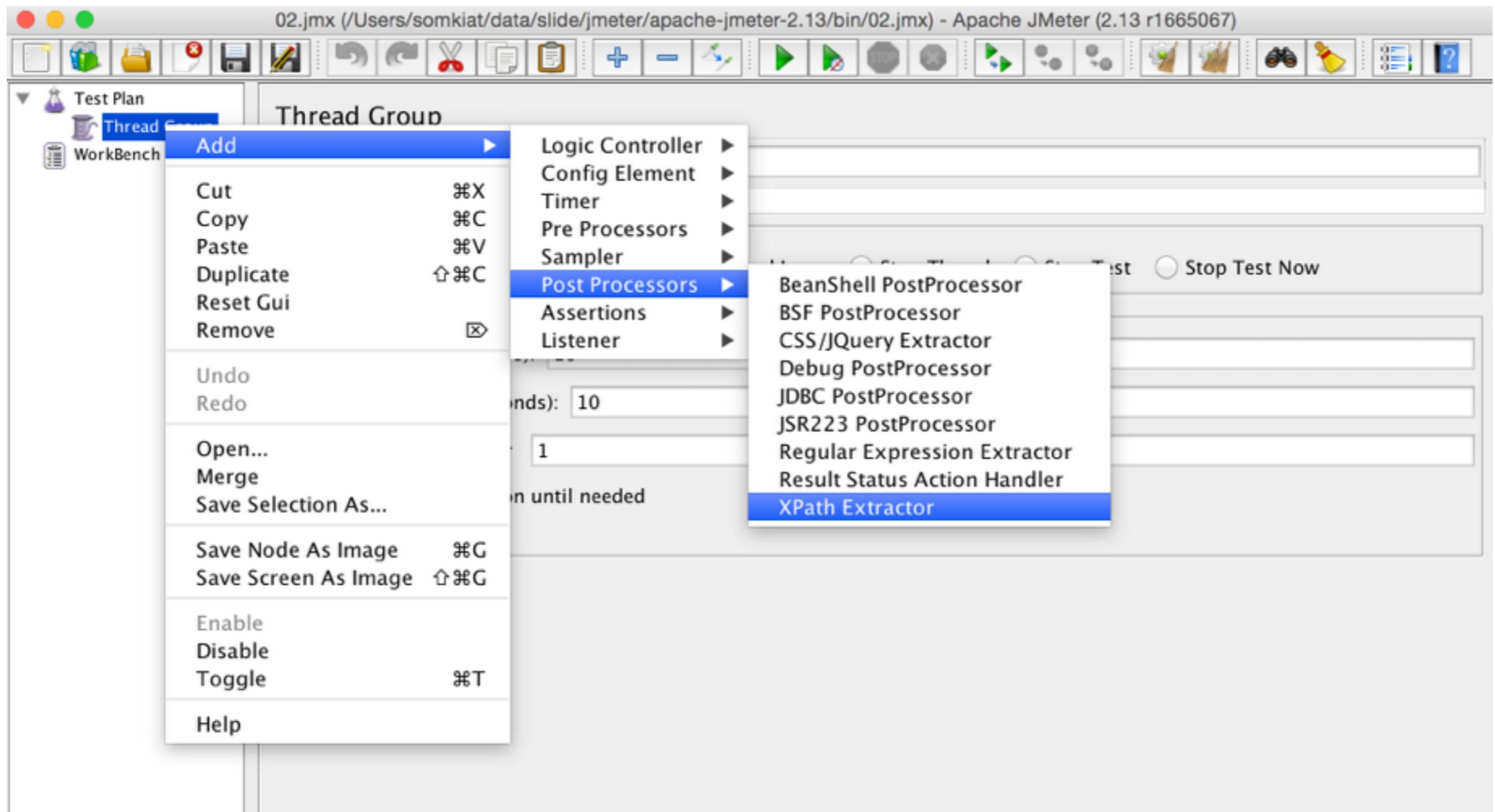
8. Post processors

Execute after Samplers

List of post processors

- CSS/JQuery extractor
- Regular expression extractor
- XPath extractor

8. Post processors



Execution order

1. Config elements
2. Pre processors
3. Timers
4. Sampler/Logic controller
5. Post processors
6. Assertions
7. Listeners



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Let's workshop

